

| SUMMARY                                                                                                                                                                                                                                                                                                                           |                                                                               |             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------|
| BILL                                                                                                                                                                                                                                                                                                                              | DESCRIPTION                                                                   | AMOUNT<br>R |
|                                                                                                                                                                                                                                                                                                                                   | RICHARDS BAY                                                                  |             |
|                                                                                                                                                                                                                                                                                                                                   | DURBAN                                                                        |             |
|                                                                                                                                                                                                                                                                                                                                   | EAST LONDON                                                                   |             |
|                                                                                                                                                                                                                                                                                                                                   | NGQURA                                                                        |             |
|                                                                                                                                                                                                                                                                                                                                   | PORT ELIZABETH                                                                |             |
|                                                                                                                                                                                                                                                                                                                                   | MOSSEL BAY                                                                    |             |
|                                                                                                                                                                                                                                                                                                                                   | CAPE TOWN                                                                     |             |
|                                                                                                                                                                                                                                                                                                                                   | SALDANHA                                                                      |             |
|                                                                                                                                                                                                                                                                                                                                   | ENTERPRISE DEVELOPMENT                                                        | 270 000,00  |
|                                                                                                                                                                                                                                                                                                                                   | <b>SUB -TOTAL 1</b>                                                           |             |
|                                                                                                                                                                                                                                                                                                                                   | <b>CIDB B.U.I.L.D PROGRAMME</b>                                               |             |
|                                                                                                                                                                                                                                                                                                                                   | CIDB CONTRACT SKILLS DEVELOPMENT GOALS (CSDG)<br>(0.25% FACTOR X SUB TOTAL 1) |             |
|                                                                                                                                                                                                                                                                                                                                   | <b>SUB -TOTAL 2</b>                                                           |             |
|                                                                                                                                                                                                                                                                                                                                   | ALLOW THE SUM OF 0.2% OF SUB TOTAL 2 FOR THE CIDB BUILD FEE                   |             |
|                                                                                                                                                                                                                                                                                                                                   | <b>NET TOTAL OF TENDER CARRIED FORWARD TO FORM OF OFFER EXCL.</b>             | <b>R</b>    |
| <b>Note: Tenderers must incorporate the B.U.I.L.D Participation Fee of 0.2%. Transnet will withhold this percentage and it will be paid directly to CIDB as per the below:</b><br><b>"In terms of section 23 (3) of the CIDB Act, Transnet must pay to the CIDB a prescribed percentage of 0.2% of the total tender value..."</b> |                                                                               |             |

| ITEM | DESCRIPTION                                                                                                                                                                                                                                                                                               | UNIT        | QUANTITY | RATE<br>R   | AMOUNT<br>R         |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------|-------------|---------------------|
| 1    | <b>Enterprise Development (CIDB B.U.I.L.D PROGRAM)</b><br><b>Indirect Targeting for Enterprise Development</b><br><b>through Construction Works Contracts, Gazette</b><br><b>Notice No.36190 of 25 February 2013</b><br><b>(a) Enterprise Development of Targeted Enterprise</b><br><b>or JV partners</b> |             |          |             |                     |
| 1.1  | (a.1) Needs Analysis and Enterprise Development Plan per Targeted Enterprise<br>(An amount of R5000 per region)                                                                                                                                                                                           | Item        | 3        | R 5 000,00  | R 15 000,00         |
| 1.2  | (a.2) Monitoring and Interim Reporting per Targeted Enterprise                                                                                                                                                                                                                                            | Per Quarter | 12       | R 20 000,00 | R 240 000,00        |
| 1.3  | (a.3) Project Completion Report per Targeted Enterprise                                                                                                                                                                                                                                                   | Item        | 3        | R 5 000,00  | R 15 000,00         |
|      | <b>CARRIED FORWARD TO FINAL SUMMARY</b>                                                                                                                                                                                                                                                                   |             |          |             | <b>R 270 000,00</b> |

| PRELIMINARY AND GENERAL |                                                                                                                                                                                                                                                                                                                                                    |      |          |           |             |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
| ITEM                    | DESCRIPTION                                                                                                                                                                                                                                                                                                                                        | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
| <b>A</b>                | <b>PORT OF RICHARDS BAY</b>                                                                                                                                                                                                                                                                                                                        |      |          |           |             |
|                         | <u>PREAMBLES</u>                                                                                                                                                                                                                                                                                                                                   |      |          |           |             |
|                         | Fixed preliminary items will be valuated and paid on a proven cost basis up to the total value<br><br>The tenderer is expected to understand the site, restrictions, and scope of work and price only the relevant items within the Preliminaries. All items priced will be assessed in relevance to the contract prior to any payments being made |      |          |           |             |
| <b>1</b>                | <b>FIXED-CHARGE ITEMS</b>                                                                                                                                                                                                                                                                                                                          |      |          |           |             |
|                         | <u>Contractual Requirements</u>                                                                                                                                                                                                                                                                                                                    |      |          |           |             |
| 1.1                     | Contractual Requirements: Allow for all contractual obligations in accordance with the NEC3 Engineering and Construction Contract (ECC), including the provision and maintenance of all required performance securities, guarantees, insurances, bonds, warranties, and statutory compliance for the full duration of the Contract.                | sum  | 1        |           |             |
|                         | <b>Establishment of Facilities on Site</b>                                                                                                                                                                                                                                                                                                         |      |          |           |             |
|                         | <b>Facilities for the Contractor</b>                                                                                                                                                                                                                                                                                                               |      |          |           |             |
| 1.2                     | Offices and storage sheds                                                                                                                                                                                                                                                                                                                          | sum  | 1        |           |             |
| 1.3                     | Ablution and latrine facilities                                                                                                                                                                                                                                                                                                                    | sum  | 1        |           |             |
| 1.4                     | Tools and equipment                                                                                                                                                                                                                                                                                                                                | sum  | 1        |           |             |
| 1.5                     | Water supplies, electric power and communications                                                                                                                                                                                                                                                                                                  | sum  | 1        |           |             |
| 1.6                     | Dealing with water                                                                                                                                                                                                                                                                                                                                 | sum  | 1        |           |             |
| 1.7                     | Access                                                                                                                                                                                                                                                                                                                                             | sum  | 1        |           |             |
| 1.8                     | Plant                                                                                                                                                                                                                                                                                                                                              | sum  | 1        |           |             |
|                         | <b>Other Fixed-charge Obligations:</b>                                                                                                                                                                                                                                                                                                             |      |          |           |             |
| 1.9                     | Survey, setting out and preparation of as-built drawings                                                                                                                                                                                                                                                                                           | sum  | 1        |           |             |
| 1.10                    | Health and Safety Compliance                                                                                                                                                                                                                                                                                                                       | sum  | 1        |           |             |
| 1.11                    | Environmental management                                                                                                                                                                                                                                                                                                                           | sum  | 1        |           |             |
|                         | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                                                                                                                             |      |          |           |             |

| PRELIMINARY AND GENERAL |                                                                                  |       |          |           |             |
|-------------------------|----------------------------------------------------------------------------------|-------|----------|-----------|-------------|
| ITEM                    | DESCRIPTION                                                                      | UNIT  | QUANTITY | RATE<br>R | AMOUNT<br>R |
|                         | <b>BROUGHT FORWARD</b>                                                           |       |          |           |             |
| 1.12                    | Security                                                                         | sum   | 1        |           |             |
| 1.13                    | Removal of Site Establishment                                                    | sum   | 1        |           |             |
| 1.14                    | Plant                                                                            | sum   | 1        |           |             |
| <b>2</b>                | <b>TIME-RELATED ITEMS</b>                                                        |       |          |           |             |
|                         | Operation and maintenance of facilities on the Site for duration of construction |       |          |           |             |
|                         | <b><u>Facilities for the Engineer</u></b>                                        |       |          |           |             |
| 2.1                     | Survey assistants and materials                                                  | Month | 11       |           |             |
|                         | <b><u>Facilities for the Contractor</u></b>                                      |       |          |           |             |
| 2.2                     | Offices and storage sheds                                                        | Month | 11       |           |             |
| 2.3                     | Ablution and latrine facilities                                                  | Month | 11       |           |             |
| 2.4                     | Tools and equipment                                                              | Month | 11       |           |             |
| 2.5                     | Water supplies, electric power and communications                                | Month | 11       |           |             |
| 2.6                     | Dealing with water (Sub-clause 5.5)                                              | Month | 11       |           |             |
| 2.7                     | Access (Sub-clause 5.8)                                                          | Month | 11       |           |             |
| 2.8                     | Plant                                                                            | Month | 11       |           |             |
|                         | <b>Supervision</b>                                                               |       |          |           |             |
| 2.9                     | Supervision for duration of construction                                         | Month | 11       |           |             |
|                         | <b>Other time-related obligations</b>                                            |       |          |           |             |
| 2.10                    | Compliance Occupational Health and Safety Act and Construction Regulations       | Month | 11       |           |             |
| 2.11                    | Compliance to Environmental Management Plan                                      | Month | 11       |           |             |
|                         | <b>CARRIED FORWARD TO SUMMARY</b>                                                |       |          |           |             |

| PORT OF RICHARDS BAY |                                                                                                                                                                                                                                            |                |          |           |             |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|-----------|-------------|
| ITEM                 | DESCRIPTION                                                                                                                                                                                                                                | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
| <b>C</b>             | <b>PORT OF RICHARDS BAY</b>                                                                                                                                                                                                                |                |          |           |             |
|                      | <b>SUPPLY AND INSTALLATION OF SMART METERS</b>                                                                                                                                                                                             |                |          |           |             |
| 1.1                  | Investigations and site assessment (Refer to WI Clauses 4.3)                                                                                                                                                                               | sum            | 1        |           |             |
| 1.2                  | Survey and Ground-Penetrating Radar (GPR) Scans on the route for any potential underground services                                                                                                                                        | m <sup>2</sup> | 31250    |           |             |
|                      | <b>SITE CLEARANCE, SITEWORKS, ETC.</b>                                                                                                                                                                                                     |                |          |           |             |
|                      | <b>Site Clearance</b>                                                                                                                                                                                                                      |                |          |           |             |
| 1.3                  | Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth                                                                                                                         | m <sup>2</sup> | 12500    |           |             |
|                      | <b>Earthworks</b>                                                                                                                                                                                                                          |                |          |           |             |
| 1.4                  | Excavate and backfill where depth is not exceeding 2m deep (600mm x 600mm x 600mm)                                                                                                                                                         | m <sup>3</sup> | 53       |           |             |
|                      | <b>SUPPLY AND INSTALLATION OF SMART WATER METERS</b>                                                                                                                                                                                       |                |          |           |             |
|                      | <b>Below Ground Installation</b><br>Supply, install, test and commission smart water meters and shall be configured for measurement of water consumption (KL), alarm notification for high flow set points and trigger night flow analysis |                |          |           |             |
|                      | <b>METER No. 01 -Harbour Main</b><br><b>Replacement of the meter including associated components, Meter size: 300mm, existing pipe material is HDPE and the pipe size: 320mm</b>                                                           |                |          |           |             |
| 2.1                  | Decommission and remove the existing above installation.                                                                                                                                                                                   | No.            | 1        |           |             |
| 2.2                  | Supply and install 300mm dia. flanged HDPE stub flange adaptor to AC pipe connection to exterior of the chamber including gaskets, bolts, sealants, etc.                                                                                   | No.            | 2        |           |             |
| 2.3                  | Supply and install a 300mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                                                          | No.            | 1        |           |             |
| 2.4                  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                                                       | m              | 8        |           |             |
| 2.5                  | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                                                                    | No.            | 1        |           |             |
| 2.6                  | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                                                                               | No.            | 1        |           |             |
| 2.7                  | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                                                                      | No.            | 1        |           |             |
| 2.8                  | Test and commission the installation                                                                                                                                                                                                       | No.            | 1        |           |             |
|                      | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                     |                |          |           |             |

| PORT OF RICHARDS BAY |                                                                                                                                                                                   |      |          |           |             |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
| ITEM                 | DESCRIPTION                                                                                                                                                                       | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|                      | <b>BROUGHT FORWARD</b>                                                                                                                                                            |      |          |           |             |
|                      | <b>METER No. 02 - Bayview Main</b><br><b>Replacement of the meter including associated components, Meter size: 150mm, existing pipe material is HDPE and the pipe size: 180mm</b> |      |          |           |             |
| 3.1                  | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 3.2                  | Supply and install 150mm dia. flanged HDPE stub flange adaptor to AC pipe connection to exterior of the chamber including gaskets, bolts, sealants, etc.                          | No.  | 2        |           |             |
| 3.3                  | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 3.4                  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 3.5                  | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 3.6                  | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 3.7                  | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 3.8                  | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|                      | <b>METER No. 03 - Die Duine</b><br><b>Replacement of the meter including associated components, Meter size: 250mm, existing pipe material is HDPE and the pipe size: 280mm</b>    |      |          |           |             |
| 4.1                  | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 4.2                  | Supply and install 250mm dia. flanged HDPE stub flange adaptor to AC pipe connection to exterior of the chamber including gaskets, bolts, sealants, etc.                          | No.  | 2        |           |             |
| 4.3                  | Supply and install a 250mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 4.4                  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 4.5                  | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 4.6                  | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 4.7                  | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 4.8                  | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|                      | <b>CARRIED FORWARD</b>                                                                                                                                                            |      |          |           |             |

| PORT OF RICHARDS BAY |                                                                                                                                                                                      |      |          |           |             |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
| ITEM                 | DESCRIPTION                                                                                                                                                                          | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|                      | <b>BROUGHT FORWARD</b>                                                                                                                                                               |      |          |           |             |
|                      | <b>METER No. 04 - Government House</b><br><b>Replacement of the meter including associated components Meter size: 100mm, existing pipe material is HDPE and the pipe size: 110mm</b> |      |          |           |             |
| 5.1                  | Decommission and remove the existing above installation.                                                                                                                             | No.  | 1        |           |             |
| 5.2                  | Supply and install 100mm dia. flanged HDPE stub flange adaptor to AC pipe connection to exterior of the chamber including gaskets, bolts, sealants, etc.                             | No.  | 2        |           |             |
| 5.3                  | Supply and install a 100mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.    | No.  | 1        |           |             |
| 5.4                  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                 | m    | 8        |           |             |
| 5.5                  | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                              | No.  | 1        |           |             |
| 5.6                  | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                         | No.  | 1        |           |             |
| 5.7                  | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                | No.  | 1        |           |             |
| 5.8                  | Test and commission the installation                                                                                                                                                 | No.  | 1        |           |             |
|                      | <b>METER No. 05 -Water Gantry</b><br><b>Replacement of the meter including associated components, Meter size: 50mm, existing pipe material is HDPE and the pipe size: 50mm</b>       |      |          |           |             |
| 6.1                  | Decommission and remove the existing above installation.                                                                                                                             | No.  | 1        |           |             |
| 6.2                  | Supply and install 50mm dia. flanged HDPE stub flange adaptor to AC pipe connection to exterior of the chamber including gaskets, bolts, sealants, etc.                              | No.  | 2        |           |             |
| 6.3                  | Supply and install a 50mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.     | No.  | 1        |           |             |
| 6.4                  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                 | m    | 8        |           |             |
| 6.5                  | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                              | No.  | 1        |           |             |
| 6.6                  | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                         | No.  | 1        |           |             |
| 6.7                  | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                | No.  | 1        |           |             |
| 6.8                  | Test and commission the installation                                                                                                                                                 | No.  | 1        |           |             |
|                      | <b>CARRIED FORWARD</b>                                                                                                                                                               |      |          |           |             |

| PORT OF RICHARDS BAY |                                                                                                                                                                                   |      |          |           |             |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
| ITEM                 | DESCRIPTION                                                                                                                                                                       | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|                      | <b>BROUGHT FORWARD</b>                                                                                                                                                            |      |          |           |             |
|                      | <b>METER No. 06 -Silver Ocean: Main Replacement of the meter including associated components, Meter size: 150mm, existing pipe material is HDPE and the pipe size: 200mm</b>      |      |          |           |             |
| 7,1                  | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 7,2                  | Supply and install 150mm dia. flanged HDPE stub flange adaptor to AC pipe connection to exterior of the chamber including gaskets, bolts, sealants, etc.                          | No.  | 2        |           |             |
| 7,3                  | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 7,4                  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 7,5                  | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 7,6                  | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 7,7                  | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 7,6                  | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|                      | <b>METER No. 07 - Newark Replacement of the meter including associated components, Meter size: 150mm, existing pipe material is HDPE and the pipe size: 200mm</b>                 |      |          |           |             |
| 8,1                  | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 8,2                  | Supply and install 150mm dia. flanged HDPE stub flange adaptor to AC pipe connection to exterior of the chamber including gaskets, bolts, sealants, etc.                          | No.  | 2        |           |             |
| 8,3                  | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 8,4                  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 8,5                  | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 8,6                  | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 8,7                  | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 8,8                  | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|                      | <b>CARRIED FORWARD</b>                                                                                                                                                            |      |          |           |             |

| PORT OF RICHARDS BAY |                                                                                                                                                                                         |      |          |           |             |
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| ITEM                 | DESCRIPTION                                                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|                      | <b>BROUGHT FORWARD</b>                                                                                                                                                                  |      |          |           |             |
|                      | <b>METER No. 08 - Action Cricket<br/>Replacement of the meter including associated components, Meter size: 150mm, existing pipe material is HDPE and the pipe size: 170mm</b>           |      |          |           |             |
| 9,1                  | Decommission and remove the existing above installation.                                                                                                                                | No.  | 1        |           |             |
| 9,2                  | Supply and install 150mm dia. flanged HDPE stub flange adaptor to AC pipe connection to exterior of the chamber including gaskets, bolts, sealants, etc.                                | No.  | 2        |           |             |
| 9,3                  | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.       | No.  | 1        |           |             |
| 9,4                  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                    | m    | 8        |           |             |
| 9,5                  | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                 | No.  | 1        |           |             |
| 9,6                  | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                            | No.  | 1        |           |             |
| 9,7                  | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                   | No.  | 1        |           |             |
| 9,8                  | Test and commission the installation                                                                                                                                                    | No.  | 1        |           |             |
|                      | <b>METER No. 09 - Tidal Gates (Two Meters)<br/>Replacement of the meter including associated components, Meter size: 250mm, existing pipe material is HDPE and the pipe size: 270mm</b> |      |          |           |             |
| 10,1                 | Decommission and remove the existing above installation.                                                                                                                                | No.  | 1        |           |             |
| 10,2                 | Supply and install 250mm dia. flanged HDPE stub flange adaptor to AC pipe connection to exterior of the chamber including gaskets, bolts, sealants, etc.                                | No.  | 2        |           |             |
| 10,3                 | Supply and install a 250mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.       | No.  | 1        |           |             |
| 10,4                 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                    | m    | 8        |           |             |
| 10,5                 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                 | No.  | 1        |           |             |
| 10,6                 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                            | No.  | 1        |           |             |
| 10,7                 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                   | No.  | 1        |           |             |
| 10,8                 | Test and commission the installation                                                                                                                                                    | No.  | 1        |           |             |
|                      | <b>CARRIED FORWARD</b>                                                                                                                                                                  |      |          |           |             |

| PORT OF RICHARDS BAY |                                                                                                                                                                                       |      |          |           |             |
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| ITEM                 | DESCRIPTION                                                                                                                                                                           | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|                      | <b>BROUGHT FORWARD</b>                                                                                                                                                                |      |          |           |             |
|                      | <b>METER No. 10 -Checmical Berth<br/>Replacement of the meter including associated<br/>components, Meter size: 150mm, existing pipe material<br/>is HDPE and the pipe size: 160mm</b> |      |          |           |             |
| 11,1                 | Decommission and remove the existing above installation.                                                                                                                              | No.  | 1        |           |             |
| 11,2                 | Supply and install 150mm dia. flanged HDPE stub flange adaptor to AC pipe connection to exterior of the chamber including gaskets, bolts, sealants, etc.                              | No.  | 2        |           |             |
| 11,3                 | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.     | No.  | 1        |           |             |
| 11,4                 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                  | m    | 8        |           |             |
| 11,5                 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                               | No.  | 1        |           |             |
| 11,6                 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                          | No.  | 1        |           |             |
| 11,7                 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                 | No.  | 1        |           |             |
| 11,8                 | Test and commision the installation                                                                                                                                                   | No.  | 1        |           |             |
|                      | <b>METER No. 11 - 300 Series<br/>Replacement of the meter including associated<br/>components, Meter size: 200mm, existing pipe material<br/>is HDPE and the pipe size: 230mm</b>     |      |          |           |             |
| 12,1                 | Decommission and remove the existing above installation.                                                                                                                              | No.  | 1        |           |             |
| 12,2                 | Supply and install 200mm dia. flanged HDPE stub flange adaptor to AC pipe connection to exterior of the chamber including gaskets, bolts, sealants, etc.                              | No.  | 2        |           |             |
| 12,3                 | Supply and install a 200mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.     | No.  | 1        |           |             |
| 12,4                 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                  | m    | 8        |           |             |
| 12,5                 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                               | No.  | 1        |           |             |
| 12,6                 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                          | No.  | 1        |           |             |
| 12,7                 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                 | No.  | 1        |           |             |
| 12,8                 | Test and commision the installation                                                                                                                                                   | No.  | 1        |           |             |
|                      | <b>CARRIED FORWARD</b>                                                                                                                                                                |      |          |           |             |

| PORT OF RICHARDS BAY |                                                                                                                                                                                   |      |          |           |             |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
| ITEM                 | DESCRIPTION                                                                                                                                                                       | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|                      | <b>BROUGHT FORWARD</b>                                                                                                                                                            |      |          |           |             |
|                      | <b>METER No. 12 - Baermer<br/>Replacement of the meter including associated components, Meter size: 150mm, existing pipe material is HDPE and the pipe size: 150mm</b>            |      |          |           |             |
| 13,1                 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 13,2                 | Supply and install 150mm dia. flanged HDPE stub flange adaptor to AC pipe connection to exterior of the chamber including gaskets, bolts, sealants, etc.                          | No.  | 2        |           |             |
| 13,3                 | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 13,4                 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 13,5                 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 13,6                 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 13,7                 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 13,8                 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|                      | <b>METER No. 13 - Liquid Pitch<br/>Replacement of the meter including associated components, Meter size: 75mm, existing pipe material is HDPE and the pipe size: 90mm</b>         |      |          |           |             |
| 14,1                 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 14,2                 | Supply and install 75mm dia. flanged HDPE stub flange adaptor to AC pipe connection to exterior of the chamber including gaskets, bolts, sealants, etc.                           | No.  | 2        |           |             |
| 14,3                 | Supply and install a 75mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.  | No.  | 1        |           |             |
| 14,4                 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 14,5                 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 14,6                 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 14,7                 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 14,8                 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|                      | <b>CARRIED FORWARD</b>                                                                                                                                                            |      |          |           |             |

| PORT OF RICHARDS BAY |                                                                                                                                                                                   |      |          |           |             |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
| ITEM                 | DESCRIPTION                                                                                                                                                                       | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|                      | <b>BROUGHT FORWARD</b>                                                                                                                                                            |      |          |           |             |
|                      | <b>METER No. 14 - Fedmis Main<br/>Replacement of the meter including associated components, Meter size: 150mm, existing pipe material is HDPE and the pipe size: 180mm</b>        |      |          |           |             |
| 15,1                 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 15,2                 | Supply and install 150mm dia. flanged HDPE stub flange adaptor to AC pipe connection to exterior of the chamber including gaskets, bolts, sealants, etc.                          | No.  | 2        |           |             |
| 15,3                 | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 15,4                 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 15,5                 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 15,6                 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 15,7                 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 15,8                 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|                      | <b>METER No. 15 - Fedmis Fire<br/>Replacement of the meter including associated components<br/>Meter size: 20mm, existing pipe material is HDPE and the pipe size: 22mm</b>       |      |          |           |             |
| 16,1                 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 16,2                 | Supply and install 20mm dia. flanged HDPE stub flange adaptor to AC pipe connection to exterior of the chamber including gaskets, bolts, sealants, etc.                           | No.  | 2        |           |             |
| 16,3                 | Supply and install a 20mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.  | No.  | 1        |           |             |
| 16,4                 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 16,5                 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 16,6                 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 16,7                 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 16,8                 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|                      | <b>CARRIED FORWARD</b>                                                                                                                                                            |      |          |           |             |

| PORT OF RICHARDS BAY |                                                                                                                                                                                                  |      |          |           |             |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
| ITEM                 | DESCRIPTION                                                                                                                                                                                      | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|                      | <b>BROUGHT FORWARD</b>                                                                                                                                                                           |      |          |           |             |
|                      | <b>METER No. 16 - Shincell Fire</b><br><b>Replacement of the meter including associated components</b><br><b>Meter size: 50mm, existing pipe material is HDPE and the pipe size: 63mm</b>        |      |          |           |             |
| 17,1                 | Decommission and remove the existing above installation.                                                                                                                                         | No.  | 1        |           |             |
| 17,2                 | Supply and install 50mm dia. flanged HDPE stub flange adaptor to AC pipe connection to exterior of the chamber including gaskets, bolts, sealants, etc.                                          | No.  | 2        |           |             |
| 17,3                 | Supply and install a 50mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                 | No.  | 1        |           |             |
| 17,4                 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                             | m    | 8        |           |             |
| 17,5                 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                          | No.  | 1        |           |             |
| 17,6                 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                                     | No.  | 1        |           |             |
| 17,7                 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                            | No.  | 1        |           |             |
| 17,8                 | Test and commission the installation                                                                                                                                                             | No.  | 1        |           |             |
|                      | <b>METER No. 17 - Shincell Ring Feed</b><br><b>Replacement of the meter including associated components</b><br><b>Meter size: 100mm, existing pipe material is HDPE and the pipe size: 110mm</b> |      |          |           |             |
| 18,1                 | Decommission and remove the existing above installation.                                                                                                                                         | No.  | 1        |           |             |
| 18,2                 | Supply and install 100mm dia. flanged HDPE stub flange adaptor to AC pipe connection to exterior of the chamber including gaskets, bolts, sealants, etc.                                         | No.  | 2        |           |             |
| 18,3                 | Supply and install a 100mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                | No.  | 1        |           |             |
| 18,4                 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                             | m    | 8        |           |             |
| 18,5                 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                          | No.  | 1        |           |             |
| 18,6                 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                                     | No.  | 1        |           |             |
| 18,7                 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                            | No.  | 1        |           |             |
| 18,8                 | Test and commission the installation                                                                                                                                                             | No.  | 1        |           |             |
|                      | <b>METER No. 18 - Fermentech</b><br><b>Replacement of the meter including associated components</b><br><b>Meter size: 100mm, existing pipe material is HDPE and the pipe size: 110mm</b>         |      |          |           |             |
| 19,1                 | Decommission and remove the existing above installation.                                                                                                                                         | No.  | 1        |           |             |
| 19,2                 | Supply and install 100mm dia. flanged HDPE stub flange adaptor to AC pipe connection to exterior of the chamber including gaskets, bolts, sealants, etc.                                         | No.  | 2        |           |             |
| 19,3                 | Supply and install a 100mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                | No.  | 1        |           |             |
| 19,4                 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                             | m    | 8        |           |             |
| 19,5                 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                          | No.  | 1        |           |             |
| 19,6                 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                                     | No.  | 1        |           |             |
| 19,7                 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                            | No.  | 1        |           |             |
| 19,8                 | Test and commission the installation                                                                                                                                                             | No.  | 1        |           |             |
|                      | <b>CARRIED FORWARD</b>                                                                                                                                                                           |      |          |           |             |

| PORT OF RICHARDS BAY |                                                                                                                                                                                           |      |          |           |             |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
| ITEM                 | DESCRIPTION                                                                                                                                                                               | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|                      | <b>BROUGHT FORWARD</b>                                                                                                                                                                    |      |          |           |             |
|                      | <b>METER No. 19 - Coaking Coal<br/>Replacement of the meter including associated components<br/>Meter size: 75mm, existing pipe material is HDPE and the pipe size: 90mm</b>              |      |          |           |             |
| 20,1                 | Decommission and remove the existing above installation.                                                                                                                                  | No.  | 1        |           |             |
| 20,2                 | Supply and install 75mm dia. flanged HDPE stub flange adaptor to AC pipe connection to exterior of the chamber including gaskets, bolts, sealants, etc.                                   | No.  | 2        |           |             |
| 20,3                 | Supply and install a 75mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.          | No.  | 1        |           |             |
| 20,4                 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                      | m    | 8        |           |             |
| 20,5                 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                   | No.  | 1        |           |             |
| 20,6                 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                              | No.  | 1        |           |             |
| 20,7                 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                     | No.  | 1        |           |             |
| 20,8                 | Test and commission the installation                                                                                                                                                      | No.  | 1        |           |             |
|                      | <b>METER No. 20 - IVS: Administration: Small<br/>Replacement of the meter including associated components, Meter size: 50mm, existing pipe material is HDPE and the pipe size: 63mm</b>   |      |          |           |             |
| 21,1                 | Decommission and remove the existing above installation.                                                                                                                                  | No.  | 1        |           |             |
| 21,2                 | Supply and install 50mm dia. flanged HDPE stub flange adaptor to AC pipe connection to exterior of the chamber including gaskets, bolts, sealants, etc.                                   | No.  | 2        |           |             |
| 21,3                 | Supply and install a 50mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.          | No.  | 1        |           |             |
| 21,4                 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                      | m    | 8        |           |             |
| 21,5                 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                   | No.  | 1        |           |             |
| 21,6                 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                              | No.  | 1        |           |             |
| 21,7                 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                     | No.  | 1        |           |             |
| 21,8                 | Test and commission the installation                                                                                                                                                      | No.  | 1        |           |             |
|                      | <b>METER No. 21 - IVS: Administration: Large<br/>Replacement of the meter including associated components, Meter size: 250mm, existing pipe material is HDPE and the pipe size: 270mm</b> |      |          |           |             |
| 22,1                 | Decommission and remove the existing above installation.                                                                                                                                  | No.  | 1        |           |             |
| 22,2                 | Supply and install 250mm dia. flanged HDPE stub flange adaptor to AC pipe connection to exterior of the chamber including gaskets, bolts, sealants, etc.                                  | No.  | 2        |           |             |
| 22,3                 | Supply and install a 250mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.         | No.  | 1        |           |             |
| 22,4                 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                      | m    | 8        |           |             |
| 22,5                 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                   | No.  | 1        |           |             |
| 22,6                 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                              | No.  | 1        |           |             |
| 22,7                 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                     | No.  | 1        |           |             |
| 22,8                 | Test and commission the installation                                                                                                                                                      | No.  | 1        |           |             |
|                      | <b>CARRIED FORWARD</b>                                                                                                                                                                    |      |          |           |             |

| PORT OF RICHARDS BAY |                                                                                                                                                                                   |      |          |           |             |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
| ITEM                 | DESCRIPTION                                                                                                                                                                       | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|                      | <b>BROUGHT FORWARD</b>                                                                                                                                                            |      |          |           |             |
|                      | <b>METER No. 22 - IVS: Gate<br/>Replacement of the meter including associated components, Meter size: 50mm, existing pipe material is HDPE and the pipe size: 50mm</b>            |      |          |           |             |
| 23,1                 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 23,2                 | Supply and install 50mm dia. flanged HDPE stub flange adaptor to AC pipe connection to exterior of the chamber including gaskets, bolts, sealants, etc.                           | No.  | 2        |           |             |
| 23,3                 | Supply and install a 50mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.  | No.  | 1        |           |             |
| 23,4                 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 23,5                 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 23,6                 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 23,7                 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 23,8                 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|                      | <b>METER No. 23 - IVS: Fire Main<br/>Replacement of the meter including associated components, Meter size: 100mm, existing pipe material is HDPE and the pipe size: 150mm</b>     |      |          |           |             |
| 24,1                 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 24,2                 | Supply and install 100mm dia. flanged HDPE stub flange adaptor to AC pipe connection to exterior of the chamber including gaskets, bolts, sealants, etc.                          | No.  | 2        |           |             |
| 24,3                 | Supply and install a 100mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 24,4                 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 24,5                 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 24,6                 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 24,7                 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 24,8                 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|                      | <b>CARRIED FORWARD</b>                                                                                                                                                            |      |          |           |             |

| PORT OF RICHARDS BAY |                                                                                                                                                                                                            |      |          |           |             |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
| ITEM                 | DESCRIPTION                                                                                                                                                                                                | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|                      | <b>BROUGHT FORWARD</b>                                                                                                                                                                                     |      |          |           |             |
|                      | <b>METER No. 24 - Richards Bay Bunker Terminal<br/>Replacement of the meter including associated<br/>components, Meter size: 25mm, existing pipe material is<br/>HDPE and the pipe size: 35mm</b>          |      |          |           |             |
| 25,1                 | Decommission and remove the existing above installation.                                                                                                                                                   | No.  | 1        |           |             |
| 25,2                 | Supply and install 25mm dia. flanged HDPE stub flange adaptor to AC pipe connection to exterior of the chamber including gaskets, bolts, sealants, etc.                                                    | No.  | 2        |           |             |
| 25,3                 | Supply and install a 25mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                           | No.  | 1        |           |             |
| 25,4                 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                       | m    | 8        |           |             |
| 25,5                 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                                    | No.  | 1        |           |             |
| 25,6                 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                                               | No.  | 1        |           |             |
| 25,7                 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                                      | No.  | 1        |           |             |
| 25,8                 | Test and commission the installation                                                                                                                                                                       | No.  | 1        |           |             |
|                      | <b>METER No. 25 - RBCT Main (Hydra substation)<br/>Replacement of the meter including associated<br/>components, Meter size: 200mm, existing pipe material is<br/>HDPE and the pipe size: 200mm</b>        |      |          |           |             |
| 26,1                 | Decommission and remove the existing above installation.                                                                                                                                                   | No.  | 1        |           |             |
| 26,2                 | Supply and install 200mm dia. flanged HDPE stub flange adaptor to AC pipe connection to exterior of the chamber including gaskets, bolts, sealants, etc.                                                   | No.  | 2        |           |             |
| 26,3                 | Supply and install a 200mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                          | No.  | 1        |           |             |
| 26,4                 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                       | m    | 8        |           |             |
| 26,5                 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                                    | No.  | 1        |           |             |
| 26,6                 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                                               | No.  | 1        |           |             |
| 26,7                 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                                      | No.  | 1        |           |             |
| 26,8                 | Test and commission the installation                                                                                                                                                                       | No.  | 1        |           |             |
|                      | <b>METER No. 26 - Carriage &amp; Wagon – Departure Yard<br/>Replacement of the meter including associated<br/>components, Meter size: 50mm, existing pipe material is<br/>HDPE and the pipe size: 50mm</b> |      |          |           |             |
| 27,1                 | Decommission and remove the existing above installation.                                                                                                                                                   | No.  | 1        |           |             |
| 27,2                 | Supply and install 50mm dia. flanged HDPE stub flange adaptor to AC pipe connection to exterior of the chamber including gaskets, bolts, sealants, etc.                                                    | No.  | 2        |           |             |
| 27,3                 | Supply and install a 50mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                           | No.  | 1        |           |             |
| 27,4                 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                       | m    | 8        |           |             |
| 27,5                 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                                    | No.  | 1        |           |             |
| 27,6                 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                                               | No.  | 1        |           |             |
| 27,7                 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                                      | No.  | 1        |           |             |
| 27,8                 | Test and commission the installation                                                                                                                                                                       | No.  | 1        |           |             |
|                      | <b>CARRIED FORWARD</b>                                                                                                                                                                                     |      |          |           |             |

| PORT OF RICHARDS BAY |                                                                                                                                                                                                               |      |          |           |             |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
| ITEM                 | DESCRIPTION                                                                                                                                                                                                   | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|                      | <b>BROUGHT FORWARD</b>                                                                                                                                                                                        |      |          |           |             |
|                      | <b>METER No. 27 - Shunters Cabin 124 &amp; 138 – Silver Ocean Road<br/>Replacement of the meter including associated components, Meter size: 50mm, existing pipe material is HDPE and the pipe size: 50mm</b> |      |          |           |             |
| 28,1                 | Decommission and remove the existing above installation.                                                                                                                                                      | No.  | 1        |           |             |
| 28,2                 | Supply and install 50mm dia. flanged HDPE stub flange adaptor to AC pipe connection to exterior of the chamber including gaskets, bolts, sealants, etc.                                                       | No.  | 2        |           |             |
| 28,3                 | Supply and install a 50mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                              | No.  | 1        |           |             |
| 28,4                 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                          | m    | 8        |           |             |
| 28,5                 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                                       | No.  | 1        |           |             |
| 28,6                 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                                                  | No.  | 1        |           |             |
| 28,7                 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                                         | No.  | 1        |           |             |
| 28,8                 | Test and commission the installation                                                                                                                                                                          | No.  | 1        |           |             |
|                      | <b>METER No. 28 - Shunter's Cabin 139 – Bottom Discharger<br/>Replacement of the meter including associated components, Meter size: 20mm, existing pipe material is HDPE and the pipe size: 25mm</b>          |      |          |           |             |
| 29,1                 | Decommission and remove the existing above installation.                                                                                                                                                      | No.  | 1        |           |             |
| 29,2                 | Supply and install 20mm dia. flanged HDPE stub flange adaptor to AC pipe connection to exterior of the chamber including gaskets, bolts, sealants, etc.                                                       | No.  | 2        |           |             |
| 29,3                 | Supply and install a 20mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                              | No.  | 1        |           |             |
| 29,4                 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                          | m    | 8        |           |             |
| 29,5                 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                                       | No.  | 1        |           |             |
| 29,6                 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                                                  | No.  | 1        |           |             |
| 29,7                 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                                         | No.  | 1        |           |             |
| 29,8                 | Test and commission the installation                                                                                                                                                                          | No.  | 1        |           |             |
|                      | <b>METER No. 29 - Shunter's Cabin 229 – Arrivals Yard<br/>Replacement of the meter including associated components, Meter size: 20mm, existing pipe material is HDPE and the pipe size: 28mm</b>              |      |          |           |             |
| 30,1                 | Decommission and remove the existing above installation.                                                                                                                                                      | No.  | 1        |           |             |
| 30,2                 | Supply and install 20mm dia. flanged HDPE stub flange adaptor to AC pipe connection to exterior of the chamber including gaskets, bolts, sealants, etc.                                                       | No.  | 2        |           |             |
| 30,3                 | Supply and install a 20mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                              | No.  | 1        |           |             |
| 30,4                 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                          | m    | 8        |           |             |
| 30,5                 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                                       | No.  | 1        |           |             |
| 30,6                 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                                                  | No.  | 1        |           |             |
| 30,7                 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                                         | No.  | 1        |           |             |
| 30,8                 | Test and commission the installation                                                                                                                                                                          | No.  | 1        |           |             |
|                      | <b>CARRIED FORWARD</b>                                                                                                                                                                                        |      |          |           |             |

| PORT OF RICHARDS BAY |                                                                                                                                                                                                |      |          |           |             |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
| ITEM                 | DESCRIPTION                                                                                                                                                                                    | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|                      | <b>BROUGHT FORWARD</b>                                                                                                                                                                         |      |          |           |             |
|                      | <b>METER No. 30 - Shunter's Cabin – CoalLink<br/>Replacement of the meter including associated components, Meter size: 20mm, existing pipe material is HDPE and the pipe size: 22mm</b>        |      |          |           |             |
| 31,1                 | Decommission and remove the existing above installation.                                                                                                                                       | No.  | 1        |           |             |
| 31,2                 | Supply and install 20mm dia. flanged HDPE stub flange adaptor to AC pipe connection to exterior of the chamber including gaskets, bolts, sealants, etc.                                        | No.  | 2        |           |             |
| 31,3                 | Supply and install a 20mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.               | No.  | 1        |           |             |
| 31,4                 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                           | m    | 8        |           |             |
| 31,5                 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                        | No.  | 1        |           |             |
| 31,6                 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                                   | No.  | 1        |           |             |
| 31,7                 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                          | No.  | 1        |           |             |
| 31,8                 | Test and commission the installation                                                                                                                                                           | No.  | 1        |           |             |
|                      | <b>METER No. 31 - Shunter's Cabin – Duine Area<br/>Replacement of the meter including associated components, Meter size: 20mm, existing pipe material is HDPE and the pipe size: 22mm</b>      |      |          |           |             |
| 32,1                 | Decommission and remove the existing above installation.                                                                                                                                       | No.  | 1        |           |             |
| 32,2                 | Supply and install 20mm dia. flanged HDPE stub flange adaptor to AC pipe connection to exterior of the chamber including gaskets, bolts, sealants, etc.                                        | No.  | 2        |           |             |
| 32,3                 | Supply and install a 20mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.               | No.  | 1        |           |             |
| 32,4                 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                           | m    | 8        |           |             |
| 32,5                 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                        | No.  | 1        |           |             |
| 32,6                 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                                   | No.  | 1        |           |             |
| 32,7                 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                          | No.  | 1        |           |             |
| 32,8                 | Test and commission the installation                                                                                                                                                           | No.  | 1        |           |             |
|                      | <b>METER No. 32 - Carriage and Wagon – Duine Area<br/>Replacement of the meter including associated components, Meter size: 100mm, existing pipe material is HDPE and the pipe size: 110mm</b> |      |          |           |             |
| 33,1                 | Decommission and remove the existing above installation.                                                                                                                                       | No.  | 1        |           |             |
| 33,2                 | Supply and install 100mm dia. flanged HDPE stub flange adaptor to AC pipe connection to exterior of the chamber including gaskets, bolts, sealants, etc.                                       | No.  | 2        |           |             |
| 33,3                 | Supply and install a 100mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.              | No.  | 1        |           |             |
| 33,4                 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                           | m    | 8        |           |             |
| 33,5                 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                        | No.  | 1        |           |             |
| 33,6                 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                                   | No.  | 1        |           |             |
| 33,7                 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                          | No.  | 1        |           |             |
| 33,8                 | Test and commission the installation                                                                                                                                                           | No.  | 1        |           |             |
|                      | <b>CARRIED FORWARD</b>                                                                                                                                                                         |      |          |           |             |

| PORT OF RICHARDS BAY |                                                                                                                                                                                                   |      |          |           |             |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
| ITEM                 | DESCRIPTION                                                                                                                                                                                       | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|                      | <b>BROUGHT FORWARD</b>                                                                                                                                                                            |      |          |           |             |
|                      | <b>METER No. 33 - DBT Storage – Mechanical<br/>Replacement of the meter including associated<br/>components, Meter size: 50mm, existing pipe material is<br/>HDPE and the pipe size: 50mm</b>     |      |          |           |             |
| 34,1                 | Decommission and remove the existing above installation.                                                                                                                                          | No.  | 1        |           |             |
| 34,2                 | Supply and install 50mm dia. flanged HDPE stub flange adaptor to AC pipe connection to exterior of the chamber including gaskets, bolts, sealants, etc.                                           | No.  | 2        |           |             |
| 34,3                 | Supply and install a 50mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                  | No.  | 1        |           |             |
| 34,4                 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                              | m    | 8        |           |             |
| 34,5                 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                           | No.  | 1        |           |             |
| 34,5                 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                                      | No.  | 1        |           |             |
| 34,6                 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                             | No.  | 1        |           |             |
| 34,7                 | Test and commission the installation                                                                                                                                                              | No.  | 1        |           |             |
|                      | <b>METER No. 34 - DBT Storage – Electrical<br/>Replacement of the meter including associated<br/>components, Meter size: 50mm, existing pipe material is<br/>HDPE and the pipe size: 50mm</b>     |      |          |           |             |
| 35,1                 | Decommission and remove the existing above installation.                                                                                                                                          | No.  | 1        |           |             |
| 35,2                 | Supply and install 50mm dia. flanged HDPE stub flange adaptor to AC pipe connection to exterior of the chamber including gaskets, bolts, sealants, etc.                                           | No.  | 2        |           |             |
| 35,3                 | Supply and install a 50mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                  | No.  | 1        |           |             |
| 35,4                 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                              | m    | 8        |           |             |
| 35,5                 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                           | No.  | 1        |           |             |
| 35,6                 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                                      | No.  | 1        |           |             |
| 35,7                 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                             | No.  | 1        |           |             |
| 35,8                 | Test and commission the installation                                                                                                                                                              | No.  | 1        |           |             |
|                      | <b>METER No. 35 - DBT Storage – Administration<br/>Replacement of the meter including associated<br/>components, Meter size: 50mm, existing pipe material is<br/>HDPE and the pipe size: 50mm</b> |      |          |           |             |
| 36,1                 | Decommission and remove the existing above installation.                                                                                                                                          | No.  | 1        |           |             |
| 36,2                 | Supply and install 50mm dia. flanged HDPE stub flange adaptor to AC pipe connection to exterior of the chamber including gaskets, bolts, sealants, etc.                                           | No.  | 2        |           |             |
| 36,3                 | Supply and install a 50mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                  | No.  | 1        |           |             |
| 36,4                 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                              | m    | 8        |           |             |
| 36,5                 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                           | No.  | 1        |           |             |
| 36,6                 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                                      | No.  | 1        |           |             |
| 36,7                 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                             | No.  | 1        |           |             |
| 36,8                 | Test and commission the installation                                                                                                                                                              | No.  | 1        |           |             |
|                      | <b>CARRIED FORWARD</b>                                                                                                                                                                            |      |          |           |             |

| PORT OF RICHARDS BAY |                                                                                                                                                                                            |      |          |           |             |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
| ITEM                 | DESCRIPTION                                                                                                                                                                                | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|                      | <b>BROUGHT FORWARD</b>                                                                                                                                                                     |      |          |           |             |
|                      | <b>METER No.36 - Dry Bulk Terminal Main Meter<br/>Replacement of the meter including associated components, Meter size: 150mm, existing pipe material is HDPE and the pipe size: 160mm</b> |      |          |           |             |
| 37,1                 | Decommission and remove the existing above installation.                                                                                                                                   | No.  | 1        |           |             |
| 37,2                 | Supply and install 150mm dia. flanged HDPE stub flange adaptor to AC pipe connection to exterior of the chamber including gaskets, bolts, sealants, etc.                                   | No.  | 2        |           |             |
| 37,3                 | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.          | No.  | 1        |           |             |
| 37,4                 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                       | m    | 8        |           |             |
| 37,5                 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                    | No.  | 1        |           |             |
| 37,6                 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                               | No.  | 1        |           |             |
| 37,7                 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                      | No.  | 1        |           |             |
| 37,8                 | Test and commission the installation                                                                                                                                                       | No.  | 1        |           |             |
|                      | <b>METER No. 37 - DBT – Saxon Road<br/>Replacement of the meter including associated components, Meter size: 150mm, existing pipe material is HDPE and the pipe size: 150mm</b>            |      |          |           |             |
| 38,1                 | Decommission and remove the existing above installation.                                                                                                                                   | No.  | 1        |           |             |
| 38,2                 | Supply and install 150mm dia. flanged HDPE stub flange adaptor to AC pipe connection to exterior of the chamber including gaskets, bolts, sealants, etc.                                   | No.  | 2        |           |             |
| 38,3                 | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.          | No.  | 1        |           |             |
| 38,4                 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                       | m    | 8        |           |             |
| 38,5                 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                    | No.  | 1        |           |             |
| 38,6                 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                               | No.  | 1        |           |             |
| 38,7                 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                      | No.  | 1        |           |             |
| 38,8                 | Test and commission the installation                                                                                                                                                       | No.  | 1        |           |             |
|                      | <b>METER No. 38 - Mhlathuze Building<br/>Replacement of the meter including associated components, Meter size: 150mm, existing pipe material is HDPE and the pipe size: 180mm</b>          |      |          |           |             |
| 39,1                 | Decommission and remove the existing above installation.                                                                                                                                   | No.  | 1        |           |             |
| 39,2                 | Supply and install 150mm dia. flanged HDPE stub flange adaptor to AC pipe connection to exterior of the chamber including gaskets, bolts, sealants, etc.                                   | No.  | 2        |           |             |
| 39,3                 | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.          | No.  | 1        |           |             |
| 39,4                 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                       | m    | 8        |           |             |
| 39,5                 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                    | No.  | 1        |           |             |
| 39,6                 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                               | No.  | 1        |           |             |
| 39,7                 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                      | No.  | 1        |           |             |
| 39,8                 | Test and commission the installation                                                                                                                                                       | No.  | 1        |           |             |
|                      | <b>CARRIED FORWARD</b>                                                                                                                                                                     |      |          |           |             |

| PORT OF RICHARDS BAY |                                                                                                                                                                                        |      |          |           |             |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
| ITEM                 | DESCRIPTION                                                                                                                                                                            | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|                      | <b>BROUGHT FORWARD</b>                                                                                                                                                                 |      |          |           |             |
|                      | <b>METER No. 39 - Office 2279<br/>Replacement of the meter including associated components, Meter size: 100mm, existing pipe material is HDPE and the pipe size: 110mm</b>             |      |          |           |             |
| 40,1                 | Decommission and remove the existing above installation.                                                                                                                               | No.  | 1        |           |             |
| 40,2                 | Supply and install 100mm dia. flanged HDPE stub flange adaptor to AC pipe connection to exterior of the chamber including gaskets, bolts, sealants, etc.                               | No.  | 2        |           |             |
| 40,3                 | Supply and install a 100mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.      | No.  | 1        |           |             |
| 40,4                 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                   | m    | 8        |           |             |
| 40,5                 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                | No.  | 1        |           |             |
| 40,6                 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                           | No.  | 1        |           |             |
| 40,7                 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                  | No.  | 1        |           |             |
| 40,8                 | Test and commission the installation                                                                                                                                                   | No.  | 1        |           |             |
|                      | <b>METER No. 40 - CoalLink Locomotive Depot<br/>Replacement of the meter including associated components, Meter size: 75mm, existing pipe material is HDPE and the pipe size: 90mm</b> |      |          |           |             |
| 41,1                 | Decommission and remove the existing above installation.                                                                                                                               | No.  | 1        |           |             |
| 41,2                 | Supply and install 75mm dia. flanged HDPE stub flange adaptor to AC pipe connection to exterior of the chamber including gaskets, bolts, sealants, etc.                                | No.  | 2        |           |             |
| 41,3                 | Supply and install a 75mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.       | No.  | 1        |           |             |
| 41,4                 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                   | m    | 8        |           |             |
| 41,5                 | Supply, install, mount and configure a smart IP68 automatic data logger and meter reading device and establish connectivity for wireless communication.                                | No.  | 1        |           |             |
| 41,6                 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                           | No.  | 1        |           |             |
| 41,7                 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                  | No.  | 1        |           |             |
| 41,8                 | Test and commission the installation                                                                                                                                                   | No.  | 1        |           |             |
|                      | <b>CARRIED FORWARD TO SUMMARY RCB</b>                                                                                                                                                  |      |          |           |             |

| PORT OF RICHARDS BAY |                                                                                                                                                                                                                                                                                                                           |                |          |           |             |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|-----------|-------------|
| ITEM                 | DESCRIPTION                                                                                                                                                                                                                                                                                                               | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
|                      | <b>SUPPLY AND INSTALLATION OF SMART ELECTRICITY METERS</b>                                                                                                                                                                                                                                                                |                |          |           |             |
| <b>C</b>             | <b>Replacement of Energy Meters in various locations (Three Phase)</b>                                                                                                                                                                                                                                                    |                |          |           |             |
|                      | Supply, install, configure, test and commission Smart Electricity Meters for measurement of different electrical parameters listed elsewhere in the document including Active energy (kWh/MWh), Reactive energy (kVarh/MVarh), Apparent energy (kVAh/MVAh) etc.                                                           |                |          |           |             |
| 1,1                  | Decommission and remove the existing Electricity Meters in various locations                                                                                                                                                                                                                                              | No.            | 94       |           |             |
| 1,2                  | Supply, install and configure a new smart Electricity Meter with all the necessary comms required (communication module, GSM antenna etc.).                                                                                                                                                                               | No.            | 94       |           |             |
| 1,3                  | Establish connectivity: Link the meters to the billing server and the new Utilities Management System, Create Accounts and apply the tariffs                                                                                                                                                                              | No.            | 94       |           |             |
| 1,4                  | Test and commission the installation.                                                                                                                                                                                                                                                                                     | No.            | 94       |           |             |
| <b>C</b>             | <b>Replacement of Electricity Meters in various locations (Single Phase)</b>                                                                                                                                                                                                                                              |                |          |           |             |
| 2,1                  | Decommission and remove the existing Electricity Meters in various locations                                                                                                                                                                                                                                              | No.            | 20       |           |             |
| 2,2                  | Supply, install and configure a new Smart Electricity Meter with all the necessary comms required (communication module, GSM antenna etc.).                                                                                                                                                                               | No.            | 20       |           |             |
| 2,3                  | Establish connectivity: Link the meters to the billing server and the new Utilities Management System, Create Accounts and apply the tariffs.                                                                                                                                                                             | No.            | 20       |           |             |
| 2,4                  | Test and commission the installation.                                                                                                                                                                                                                                                                                     | No.            | 20       |           |             |
|                      | <b>CARRIED FORWARD TO SUMMARY RCB</b>                                                                                                                                                                                                                                                                                     |                |          |           |             |
| PORT OF RICHARDS BAY |                                                                                                                                                                                                                                                                                                                           |                |          |           |             |
| ITEM                 | DESCRIPTION                                                                                                                                                                                                                                                                                                               | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
| <b>D</b>             | <b>COMMUNICATION</b>                                                                                                                                                                                                                                                                                                      |                |          |           |             |
| 1,1                  | Standalone Fibre Network - Design, supply, install and patch 48 pair single mode fibre optic cable (652D)                                                                                                                                                                                                                 | m              | 25000    |           |             |
| 1,2                  | Excavate and backfill where depth is not exceeding 2m deep                                                                                                                                                                                                                                                                | m <sup>3</sup> | 4500     |           |             |
| 1,3                  | Supply and install 110mm PVC pipe and chamber system for the fibre.                                                                                                                                                                                                                                                       | m              | 25000    |           |             |
| 1,4                  | Reinstate existing surface and make good                                                                                                                                                                                                                                                                                  | m <sup>2</sup> | 3750     |           |             |
| 1,5                  | Supply and install patch panels fully populated 48 pair with Lucent Connector (LC) patch leads                                                                                                                                                                                                                            | No.            | 25       |           |             |
| 1,6                  | Supply, install and configure 24 ports managed enterprise network switches including routing and setting up VLANs                                                                                                                                                                                                         | No.            | 25       |           |             |
| 1,7                  | Supply and install a 9U swing frame cabinet 900mm deep                                                                                                                                                                                                                                                                    | No.            | 10       |           |             |
| 1,8                  | Design and construction of Manholes for fibre                                                                                                                                                                                                                                                                             | No.            | 15       |           |             |
| 1,9                  | Supply, install and setup the servers                                                                                                                                                                                                                                                                                     | No.            | 2        |           |             |
| 1,10                 | Splicing of Fibres                                                                                                                                                                                                                                                                                                        | No.            | 360      |           |             |
| 1,11                 | OTDR Testing (Test and submit line losses)                                                                                                                                                                                                                                                                                | No.            | 360      |           |             |
| 1,12                 | Supply, install, configure and commission a Firewall for LAN, ensure that old and new services going through the Firewall are reinstated. Setup DMZ and position a management workstation within DMZ                                                                                                                      | Sum            | 1        |           |             |
| 1,13                 | Supply and install management workstation desktops and link to TNPA corporate network. Setup rules for management workstation and provide dashboards whilst second LAN on machine connects to Transnet Data Network. Management station needs to be on Transnet domain and have relative Transnet Policies applied to it. | No.            | 1        |           |             |
| 1,14                 | Supply and install the latest Microsoft SQL server (permanent license)                                                                                                                                                                                                                                                    | No.            | 2        |           |             |
|                      | <b>CARRIED FORWARD TO SUMMARY RCB</b>                                                                                                                                                                                                                                                                                     |                |          |           |             |

| PORT OF RICHARDS BAY |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |          |           |             |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
| ITEM                 | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                          | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
| <b>E</b>             | <b>PROCUREMENT AND SUPPLY OF SPARES</b>                                                                                                                                                                                                                                                                                                                                                                                                              |      |          |           |             |
| 1,1                  | Smart automatic water meter reading devices                                                                                                                                                                                                                                                                                                                                                                                                          | No.  | 4        |           |             |
| 1,2                  | Smart automatic energy meter reading devices                                                                                                                                                                                                                                                                                                                                                                                                         | No.  | 28       |           |             |
| 1,3                  | Supply hand held automatic meter reading device (water & energy)                                                                                                                                                                                                                                                                                                                                                                                     | No.  | 2        |           |             |
|                      | <b>CARRIED FORWARD TO SUMMARY RCB</b>                                                                                                                                                                                                                                                                                                                                                                                                                |      |          |           |             |
| PORT OF RICHARDS BAY |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |          |           |             |
| ITEM                 | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                          | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
| <b>F</b>             | <b>AUTOMATIC METER READING (AMR) SYSTEM AND SOFTWARE INTEGRATION</b>                                                                                                                                                                                                                                                                                                                                                                                 |      |          |           |             |
| 1,1                  | Supply, installation, configure and integrate the metering gateways onto the LAN and utilities management system for uploading water meter data.                                                                                                                                                                                                                                                                                                     | No.  | 5        |           |             |
| 1,2                  | <b>New Utilities Management System</b><br>Development, Programming and Software integration into the billing server, tariff setup, designing billing template and setting up billing accounts on billing server. Configure the server to send an Alert (SMS) to TNPA for abnormalities. Including linking all Port meters to new utilites management system. Provide license package. Develop an API and link it to the back end of IPMS and SAP FRP | Sum  | 1        |           |             |
| 1,3                  | Mapping the meters onto the Geographic Information System (GIS) showing the exact installation point, opening meter reading and the picture of the installation                                                                                                                                                                                                                                                                                      | Sum  | 1        |           |             |
| 1,4                  | Testing and commissioning of the software side both individually and integrated system                                                                                                                                                                                                                                                                                                                                                               | Sum  | 1        |           |             |
| 1,5                  | AMR Training for End Users                                                                                                                                                                                                                                                                                                                                                                                                                           | Sum  | 1        |           |             |
|                      | <b>CARRIED FORWARD TO SUMMARY RCB</b>                                                                                                                                                                                                                                                                                                                                                                                                                |      |          |           |             |

| PORT OF RICHARDS BAY                          |                                                                         |             |
|-----------------------------------------------|-------------------------------------------------------------------------|-------------|
|                                               | DESCRIPTION                                                             | AMOUNT<br>R |
|                                               | <b>PORT OF RICHARDS BAY</b>                                             |             |
| A                                             | PRELIMINARIES AND GENERALS                                              |             |
| B                                             | SUPPLY AND INSTALLATION OF SMART AUTOMATIC WATER METER READING DEVICES  |             |
| C                                             | SUPPLY AND INSTALLATION OF SMART AUTOMATIC ENERGY METER READING DEVICES |             |
| D                                             | COMMUNICATION                                                           |             |
| E                                             | PROCUREMENT AND SUPPLY OF SPARES                                        |             |
| F                                             | AUTOMATIC METER READING (AMR) SYSTEM AND SOFTWARE INTEGRATION           |             |
| <b>TOTAL CARRIED FORWARD TO SUMMARY PAGE:</b> |                                                                         |             |

| PORT OF DURBAN |                                                                                                                                                                                                                                                                                                                                                  |      |          |           |             |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
| ITEM           | DESCRIPTION                                                                                                                                                                                                                                                                                                                                      | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|                | <b>PORT OF DURBAN</b>                                                                                                                                                                                                                                                                                                                            |      |          |           |             |
|                | <u>PREAMBLES</u>                                                                                                                                                                                                                                                                                                                                 |      |          |           |             |
|                | Fixed preliminary items will be valued and paid on a proven cost basis up to the total value<br><br>The tenderer is expected to understand the site, restrictions, and scope of work and price only the relevant items within the Preliminaries. All items priced will be assessed in relevance to the contract prior to any payments being made |      |          |           |             |
| <b>1</b>       | <b>FIXED-CHARGE ITEMS</b>                                                                                                                                                                                                                                                                                                                        |      |          |           |             |
|                | <u>Contractual Requirements</u>                                                                                                                                                                                                                                                                                                                  |      |          |           |             |
| 1.1            | Contractual Requirements: Allow for all contractual obligations in accordance with the NEC3 Engineering and Construction Contract (ECC), including the provision and maintenance of all required performance securities, guarantees, insurances, bonds, warranties, and statutory compliance for the full duration of the Contract.              | sum  | 1        |           |             |
|                | <b>Establishment of Facilities on Site</b>                                                                                                                                                                                                                                                                                                       |      |          |           |             |
|                | <b>Facilities for the Contractor</b>                                                                                                                                                                                                                                                                                                             |      |          |           |             |
| 1.2            | Offices and storage sheds                                                                                                                                                                                                                                                                                                                        | sum  | 1        |           |             |
| 1.3            | Ablution and latrine facilities                                                                                                                                                                                                                                                                                                                  | sum  | 1        |           |             |
| 1.4            | Tools and equipment                                                                                                                                                                                                                                                                                                                              | sum  | 1        |           |             |
| 1.5            | Water supplies, electric power and communications                                                                                                                                                                                                                                                                                                | sum  | 1        |           |             |
| 1.6            | Dealing with water                                                                                                                                                                                                                                                                                                                               | sum  | 1        |           |             |
| 1.7            | Access                                                                                                                                                                                                                                                                                                                                           | sum  | 1        |           |             |
| 1.8            | Plant                                                                                                                                                                                                                                                                                                                                            | sum  | 1        |           |             |
|                | <b>Other Fixed-charge Obligations:</b>                                                                                                                                                                                                                                                                                                           |      |          |           |             |
| 1.9            | Survey, setting out and preparation of as-built drawings                                                                                                                                                                                                                                                                                         | sum  | 1        |           |             |
| 1.10           | Health and Safety Compliance                                                                                                                                                                                                                                                                                                                     | sum  | 1        |           |             |
| 1.11           | Environmental management                                                                                                                                                                                                                                                                                                                         | sum  | 1        |           |             |
|                | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                                                                                                                           |      |          |           |             |

| PORT OF DURBAN |                                                                                  |       |          |           |             |
|----------------|----------------------------------------------------------------------------------|-------|----------|-----------|-------------|
| ITEM           | DESCRIPTION                                                                      | UNIT  | QUANTITY | RATE<br>R | AMOUNT<br>R |
|                | <b>BROUGHT FORWARD</b>                                                           |       |          |           |             |
| 1.12           | Security                                                                         | sum   | 1        |           |             |
| 1.13           | Removal of Site Establishment                                                    | sum   | 1        |           |             |
| 1.14           | Plant                                                                            | sum   | 1        |           |             |
| <b>2</b>       | <b>TIME-RELATED ITEMS</b>                                                        |       |          |           |             |
|                | Operation and maintenance of facilities on the Site for duration of construction |       |          |           |             |
|                | <b>Facilities for the Engineer</b>                                               |       |          |           |             |
| 2.1            | Survey assistants and materials                                                  | Month | 8        |           |             |
|                | <b>Facilities for the Contractor</b>                                             |       |          |           |             |
| 2.2            | Offices and storage sheds                                                        | Month | 8        |           |             |
| 2.3            | Ablution and latrine facilities                                                  | Month | 8        |           |             |
| 2.4            | Tools and equipment                                                              | Month | 8        |           |             |
| 2.5            | Water supplies, electric power and communications                                | Month | 8        |           |             |
| 2.6            | Dealing with water (Sub-clause 5.5)                                              | Month | 8        |           |             |
| 2.7            | Access (Sub-clause 5.8)                                                          | Month | 8        |           |             |
| 2.8            | Plant                                                                            | Month | 8        |           |             |
|                | <b>Supervision</b>                                                               |       |          |           |             |
| 2.9            | Supervision for duration of construction                                         | Month | 8        |           |             |
|                | <b>Other time-related obligations</b>                                            |       |          |           |             |
| 2.10           | Compliance Occupational Health and Safety Act and Construction Regulations       | Month | 8        |           |             |
| 2.11           | Compliance to Environmental Management Plan                                      | Month | 8        |           |             |
|                | <b>CARRIED FORWARD TO SUMMARY</b>                                                |       |          |           |             |

| ITEM     | DESCRIPTION                                                                                                                                                                                                                                                                                                               | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|-----------|-------------|
|          | <b>PORT OF DURBAN</b>                                                                                                                                                                                                                                                                                                     |                |          |           |             |
| <b>B</b> | <b>SUPPLY AND INSTALLATION OF SMART METERS</b>                                                                                                                                                                                                                                                                            |                |          |           |             |
| 1.1      | Investigations and site assessment (Refer to WI Clauses 4.3)                                                                                                                                                                                                                                                              | sum            | 1        |           |             |
| 1.2      | Survey and Ground-Penetrating Radar (GPR) Scans on the route for any potential underground services                                                                                                                                                                                                                       | m <sup>2</sup> | 31250    |           |             |
|          | <b>CARRIED FORWARD TO SUMMARY DBN</b>                                                                                                                                                                                                                                                                                     |                |          |           |             |
|          | <b>SUPPLY AND INSTALLATION OF SMART ELECTRICITY METERS</b>                                                                                                                                                                                                                                                                |                |          |           |             |
| <b>C</b> | <b>Replacement of Energy Meters in various locations (Three Phase)</b>                                                                                                                                                                                                                                                    |                |          |           |             |
|          | Supply, install, configure, test and commission Smart Electricity Meters for measurement of different electrical parameters listed elsewhere in the document including Active energy (kWh/MWh), Reactive energy (kVARh/MVARh), Apparent energy (kVAh/MVAh) etc.                                                           |                |          |           |             |
| 1.3      | Decommission and remove the existing Electricity Meters in various locations                                                                                                                                                                                                                                              | No.            | 3        |           |             |
| 1.4      | Re-wire the existing electrical circuits                                                                                                                                                                                                                                                                                  |                | 14       |           |             |
| 1.5      | Supply, install and configure a new smart Electricity Meter with all the necessary comms required (communication module, GSM antenna etc.).                                                                                                                                                                               | No.            | 52       |           |             |
| 1.6      | Establish connectivity: Link the meters to the billing server and the new Utilities Management System, Create Accounts and apply the tariffs                                                                                                                                                                              | No.            | 52       |           |             |
| 1.7      | Test and commission the installation.                                                                                                                                                                                                                                                                                     | No.            | 52       |           |             |
|          | <b>CARRIED FORWARD TO SUMMARY DBN</b>                                                                                                                                                                                                                                                                                     |                |          |           |             |
| ITEM     | DESCRIPTION                                                                                                                                                                                                                                                                                                               | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
| <b>D</b> | <b>COMMUNICATION</b>                                                                                                                                                                                                                                                                                                      |                |          |           |             |
| 1,1      | Standalone Fibre Network - Design, supply, install and patch 48 pair single mode fibre optic cable (652D)                                                                                                                                                                                                                 | m              | 6000     |           |             |
| 1,2      | Excavate and backfill where depth is not exceeding 2m deep                                                                                                                                                                                                                                                                | m <sup>3</sup> | 1080     |           |             |
| 1,3      | Supply and install 110mm PVC pipe and chamber system for the fibre.                                                                                                                                                                                                                                                       | m              | 6000     |           |             |
| 1,4      | Reinstate existing surface and make good                                                                                                                                                                                                                                                                                  | m <sup>2</sup> | 1800     |           |             |
| 1,5      | Supply and install patch panels fully populated 48 pair with Lucent Connector (LC) patch leads                                                                                                                                                                                                                            | No.            | 24       |           |             |
| 1,6      | Supply and install a 9U swing frame cabinet 900mm deep                                                                                                                                                                                                                                                                    | No.            | 1        |           |             |
| 1,7      | Supply, install, configure and commission a Firewall for LAN, ensure that old and new services going through the Firewall are reinstated. Setup DMZ and position a management workstation within DMZ                                                                                                                      | Sum            | 1        |           |             |
| 1,8      | Supply and install management workstation desktops and link to TNPA corporate network. Setup rules for management workstation and provide dashboards whilst second LAN on machine connects to Transnet Data Network. Management station needs to be on Transnet domain and have relative Transnet Policies applied to it. | No.            | 1        |           |             |
| 1,9      | Supply and install the latest Microsoft SQL server (permanent license)                                                                                                                                                                                                                                                    | No.            | 2        |           |             |
|          | <b>CARRIED FORWARD TO SUMMARY DBN</b>                                                                                                                                                                                                                                                                                     |                |          |           |             |

| ITEM | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                           | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
| E    | <b>PROCUREMENT AND SUPPLY OF SPARES</b>                                                                                                                                                                                                                                                                                                                                                                                                               |      |          |           |             |
| 1,1  | Smart automatic water meter reading devices                                                                                                                                                                                                                                                                                                                                                                                                           | No.  | 4        |           |             |
| 1,2  | Smart automatic energy meter reading devices                                                                                                                                                                                                                                                                                                                                                                                                          | No.  | 28       |           |             |
| 1,3  | Supply hand held automatic meter reading device (water & energy)                                                                                                                                                                                                                                                                                                                                                                                      | No.  | 2        |           |             |
|      | <b>CARRIED FORWARD TO SUMMARY DBN</b>                                                                                                                                                                                                                                                                                                                                                                                                                 |      |          |           |             |
| ITEM | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                           | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
| F    | <b>AUTOMATIC METER READING (AMR) SYSTEM AND SOFTWARE INTEGRATION</b>                                                                                                                                                                                                                                                                                                                                                                                  |      |          |           |             |
| 1,1  | Supply, installation, configure and integrate the metering gateways onto the LAN and utilities management system for uploading water meter data.                                                                                                                                                                                                                                                                                                      | No.  | 5        |           |             |
| 1,2  | <b>New Utilities Management System</b><br>Development, Programming and Software integration into the billing server, tariff setup, designing billing template and setting up billing accounts on billing server. Configure the server to send an Alert (SMS) to TNPA for abnormalities. Including linking all Port meters to new utilites management system. Provide license package. Develop an API and link it to the back end of IPMS and SAP ERP. | Sum  | 1        |           |             |
| 1,3  | Mapping the meters onto the Geographic Information System (GIS) showing the exact installation point, opening meter reading and the picture of the installation                                                                                                                                                                                                                                                                                       | Sum  | 1        |           |             |
| 1,4  | Testing and commissioning of the software side both individually and integrated system                                                                                                                                                                                                                                                                                                                                                                | Sum  | 1        |           |             |
| 1,5  | AMR Training for End Users                                                                                                                                                                                                                                                                                                                                                                                                                            | Sum  | 1        |           |             |
|      | <b>CARRIED FORWARD TO SUMMARY DBN</b>                                                                                                                                                                                                                                                                                                                                                                                                                 |      |          |           |             |

| PORT OF DURBAN                                |                                                                         |             |
|-----------------------------------------------|-------------------------------------------------------------------------|-------------|
|                                               | DESCRIPTION                                                             | AMOUNT<br>R |
|                                               | <b>PORT OF DURBAN</b>                                                   |             |
| A                                             | PRELIMINARIES AND GENERALS                                              |             |
| B                                             | SUPPLY AND INSTALLATION OF SMART AUTOMATIC ENERGY METER READING DEVICES |             |
| C                                             | COMMUNICATION                                                           |             |
| D                                             | PROCUREMENT AND SUPPLY OF SPARES                                        |             |
| E                                             | AUTOMATIC METER READING (AMR) SYSTEM AND SOFTWARE INTEGRATION           |             |
| <b>TOTAL CARRIED FORWARD TO SUMMARY PAGE:</b> |                                                                         |             |

| PRELIMINARY AND GENERAL |                                                                                                                                                                                                                                                                                                                                                  |      |          |           |             |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
| ITEM                    | DESCRIPTION                                                                                                                                                                                                                                                                                                                                      | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|                         | <b>PORT OF EAST LONDON</b>                                                                                                                                                                                                                                                                                                                       |      |          |           |             |
|                         | PREAMBLES                                                                                                                                                                                                                                                                                                                                        |      |          |           |             |
|                         | Fixed preliminary items will be valued and paid on a proven cost basis up to the total value<br><br>The tenderer is expected to understand the site, restrictions, and scope of work and price only the relevant items within the Preliminaries. All items priced will be assessed in relevance to the contract prior to any payments being made |      |          |           |             |
| <b>1</b>                | <b>FIXED-CHARGE ITEMS</b>                                                                                                                                                                                                                                                                                                                        |      |          |           |             |
|                         | <u>Contractual Requirements</u>                                                                                                                                                                                                                                                                                                                  |      |          |           |             |
| 1.1                     | Contractual Requirements: Allow for all contractual obligations in accordance with the NEC3 Engineering and Construction Contract (ECC), including the provision and maintenance of all required performance securities, guarantees, insurances, bonds, warranties, and statutory compliance for the full duration of the Contract.              | sum  | 1        |           |             |
|                         | <b>Establishment of Facilities on Site</b>                                                                                                                                                                                                                                                                                                       |      |          |           |             |
|                         | <b>Facilities for the Contractor</b>                                                                                                                                                                                                                                                                                                             |      |          |           |             |
| 1.2                     | Offices and storage sheds                                                                                                                                                                                                                                                                                                                        | sum  | 1        |           |             |
| 1.3                     | Ablution and latrine facilities                                                                                                                                                                                                                                                                                                                  | sum  | 1        |           |             |
| 1.4                     | Tools and equipment                                                                                                                                                                                                                                                                                                                              | sum  | 1        |           |             |
| 1.5                     | Water supplies, electric power and communications                                                                                                                                                                                                                                                                                                | sum  | 1        |           |             |
| 1.6                     | Dealing with water                                                                                                                                                                                                                                                                                                                               | sum  | 1        |           |             |
| 1.7                     | Access                                                                                                                                                                                                                                                                                                                                           | sum  | 1        |           |             |
| 1.8                     | Plant                                                                                                                                                                                                                                                                                                                                            | sum  | 1        |           |             |
|                         | <b>Other Fixed-charge Obligations:</b>                                                                                                                                                                                                                                                                                                           |      |          |           |             |
| 1.9                     | Survey, setting out and preparation of as-built drawings                                                                                                                                                                                                                                                                                         | sum  | 1        |           |             |
| 1.10                    | Health and Safety Compliance                                                                                                                                                                                                                                                                                                                     | sum  | 1        |           |             |
| 1.11                    | Environmental management                                                                                                                                                                                                                                                                                                                         | sum  | 1        |           |             |
|                         | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                                                                                                                           |      |          |           |             |

| PRELIMINARY AND GENERAL |                                                                                  |       |          |           |             |
|-------------------------|----------------------------------------------------------------------------------|-------|----------|-----------|-------------|
| ITEM                    | DESCRIPTION                                                                      | UNIT  | QUANTITY | RATE<br>R | AMOUNT<br>R |
|                         | <b>BROUGHT FORWARD</b>                                                           |       |          |           |             |
| 1.12                    | Security                                                                         | sum   | 1        |           |             |
| 1.13                    | Removal of Site Establishment                                                    | sum   | 1        |           |             |
| 1.14                    | Plant                                                                            | sum   | 1        |           |             |
| 2                       | <b>TIME-RELATED ITEMS</b>                                                        |       |          |           |             |
|                         | Operation and maintenance of facilities on the Site for duration of construction |       |          |           |             |
|                         | <b><u>Facilities for the Engineer</u></b>                                        |       |          |           |             |
| 2.1                     | Survey assistants and materials                                                  | Month | 11       |           |             |
|                         | <b><u>Facilities for the Contractor</u></b>                                      |       |          |           |             |
| 2.2                     | Offices and storage sheds                                                        | Month | 11       |           |             |
| 2.3                     | Ablution and latrine facilities                                                  | Month | 11       |           |             |
| 2.4                     | Tools and equipment                                                              | Month | 11       |           |             |
| 2.5                     | Water supplies, electric power and communications                                | Month | 11       |           |             |
| 2.6                     | Dealing with water (Sub-clause 5.5)                                              | Month | 11       |           |             |
| 2.7                     | Access (Sub-clause 5.8)                                                          | Month | 11       |           |             |
| 2.8                     | Plant                                                                            | Month | 11       |           |             |
|                         | <b>Supervision</b>                                                               |       |          |           |             |
| 2.9                     | Supervision for duration of construction                                         | Month | 11       |           |             |
|                         | <b>Other time-related obligations</b>                                            |       |          |           |             |
| 2.10                    | Compliance Occupational Health and Safety Act and Construction Regulations       | Month | 11       |           |             |
| 2.11                    | Compliance to Environmental Management Plan                                      | Month | 11       |           |             |
|                         | <b>CARRIED FORWARD TO SUMMARY</b>                                                |       |          |           |             |

| ITEM     | DESCRIPTION                                                                                                                                                                                                                                | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|-----------|-------------|
|          | <b>PORT OF EAST LONDON</b>                                                                                                                                                                                                                 |                |          |           |             |
| <b>B</b> | <b>SUPPLY AND INSTALLATION OF SMART METERS</b>                                                                                                                                                                                             |                |          |           |             |
| 1.1      | Investigations and site assessment (Refer to WI Clauses 4.3)                                                                                                                                                                               | sum            | 1        |           |             |
| 1.2      | Survey and Ground-Penetrating Radar (GPR) Scans on the route for any potential underground services                                                                                                                                        | m <sup>2</sup> | 31250    |           |             |
|          | <b>SITE CLEARANCE, SITEWORKS, ETC.</b>                                                                                                                                                                                                     |                |          |           |             |
|          | <b>Site Clearance</b>                                                                                                                                                                                                                      |                |          |           |             |
| 1.3      | Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth                                                                                                                         | m <sup>2</sup> | 6000     |           |             |
|          | <b>Earthworks</b>                                                                                                                                                                                                                          |                |          |           |             |
| 1.4      | Excavate and backfill where depth is not exceeding 2m deep (600mm x 600mm x 600mm)                                                                                                                                                         | m <sup>3</sup> | 53       |           |             |
|          | <b>SUPPLY AND INSTALLATION OF SMART WATER METERS</b>                                                                                                                                                                                       |                |          |           |             |
|          | <b>Below Ground Installation</b><br>Supply, install, test and commission smart water meters and shall be configured for measurement of water consumption (KL), alarm notification for high flow set points and trigger night flow analysis |                |          |           |             |
|          | <b>METER No. 01 -Orient Beach TNPA</b><br><b>Replacement of the meter including associated components, Meter size: 32mm, existing pipe material is HDPE</b>                                                                                |                |          |           |             |
| 2,1      | Decommission and remove the existing above installation.                                                                                                                                                                                   | No.            | 1        |           |             |
| 2,2      | Supply and install a 32mm water meter compatible with AMR technology, including all necessary couplings, bolts, sealants etc.                                                                                                              | No.            | 1        |           |             |
| 2,3      | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                                                       | m              | 8        |           |             |
| 2,4      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                                                                    | No.            | 1        |           |             |
| 2,5      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                                                                               | No.            | 1        |           |             |
| 2,6      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                                                                      | No.            | 1        |           |             |
| 2,7      | Test and commission the installation                                                                                                                                                                                                       | No.            | 1        |           |             |
|          | <b>METER No. 02 - Orient Beach TNPA</b><br><b>Replacement of the meter including associated components, Meter size: 90mm, existing pipe material is HDPE</b>                                                                               |                |          |           |             |
| 3,1      | Decommission and remove the existing above installation.                                                                                                                                                                                   | No.            | 1        |           |             |
| 3,2      | Supply and install a 90mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                                                           | No.            | 1        |           |             |
| 3,3      | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                                                       | m              | 8        |           |             |
| 3,4      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                                                                    | No.            | 1        |           |             |
| 3,5      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                                                                               | No.            | 1        |           |             |
| 3,6      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                                                                      | No.            | 1        |           |             |
| 3,7      | Test and commission the installation                                                                                                                                                                                                       | No.            | 1        |           |             |
|          | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                     |                |          |           |             |

| ITEM | DESCRIPTION                                                                                                                                                                       | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|      | <b>BROUGHT FORWARD</b>                                                                                                                                                            |      |          |           |             |
|      | <b>METER No. 02 - Bayview Main</b><br><b>Replacement of the meter including associated components, Meter size: 150mm, existing pipe material is HDPE and the pipe size: 180mm</b> |      |          |           |             |
| 3.1  | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 3.2  | Supply and install flange stub HDPE to flange stub AC to exterior of the chamber including gaskets, bolts, sealants, etc.                                                         | No.  | 2        |           |             |
| 3.3  | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 3.4  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 3.5  | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 3.6  | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 3.7  | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 3.8  | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>METER No. 03 - Die Duine</b><br><b>Replacement of the meter including associated components, Meter size: 250mm, existing pipe material is HDPE and the pipe size: 280mm</b>    |      |          |           |             |
| 4.1  | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 4.2  | Supply and install flange stub HDPE to flange stub AC to exterior of the chamber including gaskets, bolts, sealants, etc.                                                         | No.  | 2        |           |             |
| 4.3  | Supply and install a 250mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 4.4  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 4.5  | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 4.6  | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 4.7  | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 4.8  | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>METER No. 03 - Buffalo Street</b><br><b>Replacement of the meter including associated components, Meter size: 32mm, existing pipe material is HDPE</b>                         |      |          |           |             |
| 4,1  | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 4,2  | Supply and install a 32mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.  | No.  | 1        |           |             |
| 4,3  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 4,4  | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 4,5  | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 4,6  | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 4,7  | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>CARRIED FORWARD</b>                                                                                                                                                            |      |          |           |             |

| ITEM | DESCRIPTION                                                                                                                                                                        | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|      | <b>BROUGHT FORWARD</b>                                                                                                                                                             |      |          |           |             |
|      | <b>METER No. 04 - Buffalo Street</b><br><b>Replacement of the meter including associated components, Meter size: 150mm, existing pipe material is HDPE</b>                         |      |          |           |             |
| 5,1  | Decommission and remove the existing above installation.                                                                                                                           | No.  | 1        |           |             |
| 5,2  | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.  | No.  | 1        |           |             |
| 5,3  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                               | m    | 8        |           |             |
| 5,4  | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                            | No.  | 1        |           |             |
| 5,5  | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                       | No.  | 1        |           |             |
| 5,6  | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                              | No.  | 1        |           |             |
| 5,7  | Test and commission the installation                                                                                                                                               | No.  | 1        |           |             |
|      | <b>METER No. 05 - Pontoon Road</b><br><b>Replacement of the meter including associated components, Meter size: 150mm, existing pipe material is HDPE</b>                           |      |          |           |             |
| 6,1  | Decommission and remove the existing above installation.                                                                                                                           | No.  | 1        |           |             |
| 6,2  | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.  | No.  | 1        |           |             |
| 6,3  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                               | m    | 8        |           |             |
| 6,4  | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                            | No.  | 1        |           |             |
| 6,5  | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                       | No.  | 1        |           |             |
| 6,6  | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                              | No.  | 1        |           |             |
| 6,7  | Test and commission the installation                                                                                                                                               | No.  | 1        |           |             |
|      | <b>METER No. 06 - Old Guard Post near SA navy</b><br><b>Replacement of the meter including associated components, Meter size: 150mm, existing pipe material is Galvanised Iron</b> |      |          |           |             |
| 7,1  | Decommission and remove the existing above installation.                                                                                                                           | No.  | 1        |           |             |
| 7,2  | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.  | No.  | 1        |           |             |
| 7,3  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                               | m    | 8        |           |             |
| 7,4  | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                            | No.  | 1        |           |             |
| 7,5  | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                       | No.  | 1        |           |             |
| 7,6  | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                              | No.  | 1        |           |             |
| 7,7  | Test and commission the installation                                                                                                                                               | No.  | 1        |           |             |
|      | <b>CARRIED FORWARD</b>                                                                                                                                                             |      |          |           |             |

| ITEM | DESCRIPTION                                                                                                                                                                       | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|      | <b>BROUGHT FORWARD</b>                                                                                                                                                            |      |          |           |             |
|      | <b>METER No. 07 - Port Captain</b><br><b>Replacement of the meter including associated components, Meter size: 32mm, existing pipe material is HDPE</b>                           |      |          |           |             |
| 8,1  | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 8,2  | Supply and install a 32mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.  | No.  | 1        |           |             |
| 8,3  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 8,4  | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 8,5  | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 8,6  | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 8,7  | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>METER No. 08 - Port Captain</b><br><b>Replacement of the meter including associated components, Meter size: 150mm, existing pipe material is HDPE</b>                          |      |          |           |             |
| 9,1  | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 9,2  | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 9,3  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 9,4  | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 9,5  | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 9,6  | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 9,7  | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>METER No. 09 - Latimer's Landing</b><br><b>Replacement of the meter including associated components, Meter size: 150mm, existing pipe material is Galvanised Iron</b>          |      |          |           |             |
| 10,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 10,2 | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 10,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 10,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 10,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 10,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 10,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>CARRIED FORWARD</b>                                                                                                                                                            |      |          |           |             |

| ITEM | DESCRIPTION                                                                                                                                                                       | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|      | <b>BROUGHT FORWARD</b>                                                                                                                                                            |      |          |           |             |
|      | <b>METER No. 10 - West Bank near B/R/Y/C</b><br><b>Replacement of the meter including associated components, Meter size: 150mm, existing pipe material is Asbestos Cement</b>     |      |          |           |             |
| 11,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 11,2 | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 11,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 11,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 11,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 11,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 11,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>METER No. 11 - Dale Street</b><br><b>Replacement of the meter including associated components, Meter size: 150mm, existing pipe material is Asbestos Cement</b>                |      |          |           |             |
| 12,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 12,2 | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 12,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 12,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 12,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 12,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 12,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>METER No. 12 - Dale Street TNPA</b><br><b>Replacement of the meter including associated components, Meter size: 150mm, existing pipe material is Asbestos Cement</b>           |      |          |           |             |
| 13,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 13,2 | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 13,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 13,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 13,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 13,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 13,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>CARRIED FORWARD</b>                                                                                                                                                            |      |          |           |             |

| ITEM | DESCRIPTION                                                                                                                                                                       | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|      | <b>BROUGHT FORWARD</b>                                                                                                                                                            |      |          |           |             |
|      | <b>METER No. 13 - Strand Street Cabin</b><br><b>Replacement of the meter including associated components, Meter size: 150mm, existing pipe material is Galvanised Iron</b>        |      |          |           |             |
| 14,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 14,2 | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 14,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 14,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 14,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 14,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 14,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>METER No. 14 - Strand Street BCM</b><br><b>Replacement of the meter including associated components, Meter size: 150mm, existing pipe material is Galvanised Iron</b>          |      |          |           |             |
| 15,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 15,2 | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 15,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 15,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 15,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 15,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 15,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>METER No. 15 - Strand Street</b><br><b>Replacement of the meter including associated components, Meter size: 32mm, existing pipe material is Galvanised Iron</b>               |      |          |           |             |
| 16,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 16,2 | Supply and install a 32mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.  | No.  | 1        |           |             |
| 16,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 16,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 16,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 16,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 16,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>CARRIED FORWARD</b>                                                                                                                                                            |      |          |           |             |

| ITEM | DESCRIPTION                                                                                                                                                                       | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|      | <b>BROUGHT FORWARD</b>                                                                                                                                                            |      |          |           |             |
|      | <b>METER No. 16 - Strand Street</b><br><b>Replacement of the meter including associated components, Meter size: 150mm, existing pipe material is Galvanised Iron</b>              |      |          |           |             |
| 17,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 17,2 | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 17,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 17,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 17,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 17,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 17,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>METER No. 17 - Strand Street TNPA</b><br><b>Replacement of the meter including associated components, Meter size: 150mm, existing pipe material is Galvanised Iron</b>         |      |          |           |             |
| 18,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 18,2 | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 18,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 18,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 18,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 18,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 18,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>METER No. 18 - Grey Stones W/B</b><br><b>Replacement of the meter including associated components, Meter size: 32mm, existing pipe material is Asbestos Cement</b>             |      |          |           |             |
| 19,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 19,2 | Supply and install a 32mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.  | No.  | 1        |           |             |
| 19,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 19,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 19,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 19,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 19,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>CARRIED FORWARD</b>                                                                                                                                                            |      |          |           |             |

| ITEM | DESCRIPTION                                                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|      | <b>BROUGHT FORWARD</b>                                                                                                                                                                  |      |          |           |             |
|      | <b>METER No. 19 - EMD Horseshoe</b><br><b>Replacement of the meter including associated components, Meter size: 32mm, existing pipe material is Copper</b>                              |      |          |           |             |
| 20,1 | Decommission and remove the existing above installation.                                                                                                                                | No.  | 1        |           |             |
| 20,2 | Supply and install a 32mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.        | No.  | 1        |           |             |
| 20,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                    | m    | 8        |           |             |
| 20,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                 | No.  | 1        |           |             |
| 20,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                            | No.  | 1        |           |             |
| 20,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                   | No.  | 1        |           |             |
| 20,7 | Test and commission the installation                                                                                                                                                    | No.  | 1        |           |             |
|      | <b>METER No. 15 - Fedmis Fire</b><br><b>Replacement of the meter including associated components</b><br><b>Meter size: 20mm, existing pipe material is HDPE and the pipe size: 22mm</b> |      |          |           |             |
| 16,1 | Decommission and remove the existing above installation.                                                                                                                                | No.  | 1        |           |             |
| 16,2 | Supply and install flange stub HDPE to flange stub AC to exterior of the chamber including gaskets, bolts, sealants, etc.                                                               | No.  | 2        |           |             |
| 16,3 | Supply and install a 20mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.        | No.  | 1        |           |             |
| 16,4 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                    | m    | 8        |           |             |
| 16,5 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                 | No.  | 1        |           |             |
| 16,6 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                            | No.  | 1        |           |             |
| 16,7 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                   | No.  | 1        |           |             |
| 16,8 | Test and commission the installation                                                                                                                                                    | No.  | 1        |           |             |
|      | <b>METER No. 20 - EMD Horseshoe</b><br><b>Replacement of the meter including associated components, Meter size: 90mm, existing pipe material is Copper</b>                              |      |          |           |             |
| 21,1 | Decommission and remove the existing above installation.                                                                                                                                | No.  | 1        |           |             |
| 21,2 | Supply and install a 90mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.        | No.  | 1        |           |             |
| 21,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                    | m    | 8        |           |             |
| 21,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                 | No.  | 1        |           |             |
| 21,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                            | No.  | 1        |           |             |
| 21,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                   | No.  | 1        |           |             |
| 21,7 | Test and commission the installation                                                                                                                                                    | No.  | 1        |           |             |
|      | <b>CARRIED FORWARD</b>                                                                                                                                                                  |      |          |           |             |

| ITEM | DESCRIPTION                                                                                                                                                                       | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|      | <b>BROUGHT FORWARD</b>                                                                                                                                                            |      |          |           |             |
|      | <b>METER No. 21 - Old Navy Base</b><br><b>Replacement of the meter including associated components, Meter size: 150mm, existing pipe material is Galvanised Iron</b>              |      |          |           |             |
| 22,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 22,2 | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 22,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 22,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 22,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 22,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 22,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>METER No. 22 - Almega College</b><br><b>Replacement of the meter including associated components, Meter size: 150mm, existing pipe material is Galvanised Iron</b>             |      |          |           |             |
|      |                                                                                                                                                                                   |      |          |           |             |
| 23,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 23,2 | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 23,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 23,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 23,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 23,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 23,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>METER No. 23 - Almega College TNPA</b><br><b>Replacement of the meter including associated components, Meter size: 150mm, existing pipe material is Galvanised Iron</b>        |      |          |           |             |
| 24,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 24,2 | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 24,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 24,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 24,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 24,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 24,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>CARRIED FORWARD</b>                                                                                                                                                            |      |          |           |             |

| ITEM | DESCRIPTION                                                                                                                                                                       | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|      | <b>BROUGHT FORWARD</b>                                                                                                                                                            |      |          |           |             |
|      | <b>METER No. 24 - Latimer's Complex (Bulk)<br/>Replacement of the meter including associated components, Meter size: 150mm, existing pipe material is Galvanised Iron</b>         |      |          |           |             |
| 25,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 25,2 | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 25,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 25,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 25,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 25,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 25,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>METER No. 25 - Latimer's Complex (Normal)<br/>Replacement of the meter including associated components, Meter size: 150mm, existing pipe material is Galvanised Iron</b>       |      |          |           |             |
| 26,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 26,2 | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 26,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 26,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 26,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 26,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 26,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>METER No. 26 - El Yacht Club, Orient Pier<br/>Replacement of the meter including associated components, Meter size: 150mm, existing pipe material is HDPE</b>                  |      |          |           |             |
| 27,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 27,2 | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 27,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 27,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 27,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 27,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 27,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>CARRIED FORWARD</b>                                                                                                                                                            |      |          |           |             |

| ITEM | DESCRIPTION                                                                                                                                                                       | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|      | <b>BROUGHT FORWARD</b>                                                                                                                                                            |      |          |           |             |
|      | <b>METER No. 27 - Customs House</b><br><b>Replacement of the meter including associated components, Meter size: 150mm, existing pipe material is HDPE</b>                         |      |          |           |             |
| 28,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 28,2 | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 28,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 28,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 28,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 28,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 28,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>METER No. 28 - Latimer's Landing</b><br><b>Replacement of the meter including associated components, Meter size: 150mm, existing pipe material is Galvanised Iron</b>          |      |          |           |             |
| 29,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 29,2 | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 29,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 29,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 29,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 29,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 29,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>METER No. 29 - Shipyard Area</b><br><b>Replacement of the meter including associated components, Meter size: 150mm, existing pipe material is Asbestos Cement</b>              |      |          |           |             |
| 30,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 30,2 | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 30,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 30,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 30,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 30,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 30,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>CARRIED FORWARD</b>                                                                                                                                                            |      |          |           |             |

| ITEM | DESCRIPTION                                                                                                                                                                                           | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|      | <b>BROUGHT FORWARD</b>                                                                                                                                                                                |      |          |           |             |
|      | <b>METER No. 30 - Power Boat Club, MC Arthur</b><br><b>Replacement of the meter including associated</b><br><b>components, Meter size: 150mm, existing pipe material</b><br><b>is Galvanised Iron</b> |      |          |           |             |
| 31,1 | Decommission and remove the existing above installation.                                                                                                                                              | No.  | 1        |           |             |
| 31,2 | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                     | No.  | 1        |           |             |
| 31,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                  | m    | 8        |           |             |
| 31,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                               | No.  | 1        |           |             |
| 31,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                                          | No.  | 1        |           |             |
| 31,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                                 | No.  | 1        |           |             |
| 31,7 | Test and commission the installation                                                                                                                                                                  | No.  | 1        |           |             |
|      | <b>METER No. 31 - House No. 9</b><br><b>Replacement of the meter including associated</b><br><b>components, Meter size: 150mm, existing pipe material</b><br><b>is Galvanised Iron</b>                |      |          |           |             |
| 32,1 | Decommission and remove the existing above installation.                                                                                                                                              | No.  | 1        |           |             |
| 32,2 | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                     | No.  | 1        |           |             |
| 32,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                  | m    | 8        |           |             |
| 32,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                               | No.  | 1        |           |             |
| 32,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                                          | No.  | 1        |           |             |
| 32,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                                 | No.  | 1        |           |             |
| 32,7 | Test and commission the installation                                                                                                                                                                  | No.  | 1        |           |             |
|      | <b>METER No. 32 - House No. 8</b><br><b>Replacement of the meter including associated</b><br><b>components, Meter size: 150mm, existing pipe material</b><br><b>is Galvanised Iron</b>                |      |          |           |             |
| 33,1 | Decommission and remove the existing above installation.                                                                                                                                              | No.  | 1        |           |             |
| 33,2 | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                     | No.  | 1        |           |             |
| 33,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                  | m    | 8        |           |             |
| 33,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                               | No.  | 1        |           |             |
| 33,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                                          | No.  | 1        |           |             |
| 33,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                                 | No.  | 1        |           |             |
| 33,7 | Test and commission the installation                                                                                                                                                                  | No.  | 1        |           |             |
|      | <b>CARRIED FORWARD</b>                                                                                                                                                                                |      |          |           |             |

| ITEM | DESCRIPTION                                                                                                                                                                       | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|      | <b>BROUGHT FORWARD</b>                                                                                                                                                            |      |          |           |             |
|      | <b>METER No. 33 - Foot Prints</b><br><b>Replacement of the meter including associated components, Meter size: 150mm, existing pipe material is Galvanised Iron</b>                |      |          |           |             |
| 34,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 34,2 | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 34,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 34,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 34,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 34,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 34,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>METER No. 34 - Dept Public Works, Saps</b><br><b>Replacement of the meter including associated components, Meter size: 150mm, existing pipe material is Galvanised Iron</b>    |      |          |           |             |
| 35,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 35,2 | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 35,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 35,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 35,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 35,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 35,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>METER No. 35 - Venue</b><br><b>Replacement of the meter including associated components, Meter size: 150mm, existing pipe material is Galvanised Iron</b>                      |      |          |           |             |
| 36,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 36,2 | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 36,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 36,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 36,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 36,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 36,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>CARRIED FORWARD</b>                                                                                                                                                            |      |          |           |             |

| ITEM | DESCRIPTION                                                                                                                                                                       | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|      | <b>BROUGHT FORWARD</b>                                                                                                                                                            |      |          |           |             |
|      | <b>METER No. 36 - Car Terminal Complex</b><br><b>Replacement of the meter including associated components, Meter size: 150mm, existing pipe material is Asbestos Cement</b>       |      |          |           |             |
| 37,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 37,2 | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 37,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 37,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 37,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 37,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 37,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>METER No. 37 - Terminal Control Bldg.</b><br><b>Replacement of the meter including associated components, Meter size: 150mm, existing pipe material is Galvanised Iron</b>     |      |          |           |             |
| 38,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 38,2 | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 38,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 38,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 38,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 38,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 38,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>METER No. 38 - Straddle Workshop</b><br><b>Replacement of the meter including associated components, Meter size: 150mm, existing pipe material is Galvanised Iron</b>          |      |          |           |             |
| 39,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 39,2 | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 39,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 39,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 39,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 39,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 39,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>CARRIED FORWARD</b>                                                                                                                                                            |      |          |           |             |

| ITEM | DESCRIPTION                                                                                                                                                                       | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|      | <b>BROUGHT FORWARD</b>                                                                                                                                                            |      |          |           |             |
|      | <b>METER No. 39 - Mess/Ablution TPT 4 Quay<br/>Replacement of the meter including associated components, Meter size: 150mm, existing pipe material is Galvanised Iron</b>         |      |          |           |             |
| 40,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 40,2 | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 40,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 40,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 40,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 40,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 40,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>METER No. 40 - TPT Admin Building, 3 Quay<br/>Replacement of the meter including associated components, Meter size: 150mm, existing pipe material is Galvanised Iron</b>       |      |          |           |             |
| 41,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 41,2 | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 41,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 41,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 41,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 41,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 41,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>METER No. 41 - G Shed<br/>Replacement of the meter including associated components, Meter size: 150mm, existing pipe material is Galvanised Iron</b>                           |      |          |           |             |
| 42,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 42,2 | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 42,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 42,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 42,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 42,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 42,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>CARRIED FORWARD</b>                                                                                                                                                            |      |          |           |             |

| ITEM | DESCRIPTION                                                                                                                                                                       | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|      | <b>BROUGHT FORWARD</b>                                                                                                                                                            |      |          |           |             |
|      | <b>METER No. 42 - Elevator EL&amp;P<br/>Replacement of the meter including associated components, Meter size: 150mm, existing pipe material is Galvanised Iron</b>                |      |          |           |             |
| 43,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 43,2 | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 43,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 43,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 43,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 43,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 43,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>METER No. 43 - Elevator Building<br/>Replacement of the meter including associated components, Meter size: 150mm, existing pipe material is Galvanised Iron</b>                |      |          |           |             |
| 44,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 44,2 | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 44,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 44,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 44,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 44,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 44,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>METER No. 44 - TPT Office (Old CPO), 4 QUAY<br/>Replacement of the meter including associated components, Meter size: 150mm, existing pipe material is Galvanised Iron</b>     |      |          |           |             |
| 45,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 45,2 | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 45,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 45,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 45,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 45,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 45,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>CARRIED FORWARD</b>                                                                                                                                                            |      |          |           |             |

| ITEM | DESCRIPTION                                                                                                                                                                                     | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|      | <b>BROUGHT FORWARD</b>                                                                                                                                                                          |      |          |           |             |
|      | <b>METER No. 45 - TPT &amp; IT &amp; Bills Office 4 Quay<br/>Replacement of the meter including associated<br/>components, Meter size: 150mm, existing pipe material<br/>is Galvanised Iron</b> |      |          |           |             |
| 46,1 | Decommission and remove the existing above installation.                                                                                                                                        | No.  | 1        |           |             |
| 46,2 | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.               | No.  | 1        |           |             |
| 46,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                            | m    | 8        |           |             |
| 46,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                         | No.  | 1        |           |             |
| 46,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                                    | No.  | 1        |           |             |
| 46,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                           | No.  | 1        |           |             |
| 46,8 | Test and commission the installation                                                                                                                                                            | No.  | 1        |           |             |
|      | <b>METER No. 47 - Dry Dock Pump Room<br/>Replacement of the meter including associated<br/>components, Meter size: 150mm, existing pipe material<br/>is Galvanised Iron</b>                     |      |          |           |             |
| 48,1 | Decommission and remove the existing above installation.                                                                                                                                        | No.  | 1        |           |             |
| 48,2 | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.               | No.  | 1        |           |             |
| 48,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                            | m    | 8        |           |             |
| 48,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                         | No.  | 1        |           |             |
| 48,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                                    | No.  | 1        |           |             |
| 48,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                           | No.  | 1        |           |             |
| 48,7 | Test and commission the installation                                                                                                                                                            | No.  | 1        |           |             |
|      | <b>METER No. 48 - Repair Quay Area<br/>Replacement of the meter including associated<br/>components, Meter size: 150mm, existing pipe material<br/>is Galvanised Iron</b>                       |      |          |           |             |
| 49,1 | Decommission and remove the existing above installation.                                                                                                                                        | No.  | 1        |           |             |
| 49,2 | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.               | No.  | 1        |           |             |
| 49,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                            | m    | 8        |           |             |
| 49,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                         | No.  | 1        |           |             |
| 49,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                                    | No.  | 1        |           |             |
| 49,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                           | No.  | 1        |           |             |
| 49,7 | Test and commission the installation                                                                                                                                                            | No.  | 1        |           |             |
|      | <b>CARRIED FORWARD</b>                                                                                                                                                                          |      |          |           |             |

| ITEM | DESCRIPTION                                                                                                                                                                       | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|      | <b>BROUGHT FORWARD</b>                                                                                                                                                            |      |          |           |             |
|      | <b>METER No. 49 - Shop 17 Workshop<br/>Replacement of the meter including associated components, Meter size: 150mm, existing pipe material is Galvanised Iron</b>                 |      |          |           |             |
| 50,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 50,2 | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 50,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 50,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 50,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 50,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 50,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>METER No. 50 - Shop 17 M &amp; A<br/>Replacement of the meter including associated components, Meter size: 150mm, existing pipe material is Galvanised Iron</b>                |      |          |           |             |
| 51,2 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 51,3 | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 51,4 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 51,5 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 51,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 51,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 51,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>METER No. 51 - Procurement/Security<br/>Replacement of the meter including associated components, Meter size: 150mm, existing pipe material is HDPE</b>                        |      |          |           |             |
| 52,2 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 52,3 | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 52,4 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 52,5 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 52,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 52,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 52,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>CARRIED FORWARD</b>                                                                                                                                                            |      |          |           |             |

| ITEM     | DESCRIPTION                                                                                                                                                                                                                                                                                                               | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|-----------|-------------|
|          | <b>BROUGHT FORWARD</b>                                                                                                                                                                                                                                                                                                    |                |          |           |             |
|          | <b>METER No. 52 - MHA Area</b><br><b>Replacement of the meter including associated components, Meter size: 150mm, existing pipe material is Galvanised Iron</b>                                                                                                                                                           |                |          |           |             |
| 53,2     | Decommission and remove the existing above installation.                                                                                                                                                                                                                                                                  | No.            | 1        |           |             |
| 53,3     | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                         | No.            | 1        |           |             |
| 53,4     | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                                                                                                                                      | m              | 8        |           |             |
| 53,5     | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                                                                                                                                                   | No.            | 1        |           |             |
| 53,5     | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                                                                                                                                                              | No.            | 1        |           |             |
| 53,6     | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                                                                                                                                                     | No.            | 1        |           |             |
| 53,7     | Test and commission the installation                                                                                                                                                                                                                                                                                      | No.            | 1        |           |             |
|          | <b>CARRIED FORWARD TO SUMMARY EL</b>                                                                                                                                                                                                                                                                                      |                |          |           |             |
| ITEM     | DESCRIPTION                                                                                                                                                                                                                                                                                                               | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
|          | <b>SUPPLY AND INSTALLATION OF SMART ELECTRICITY METERS</b>                                                                                                                                                                                                                                                                |                |          |           |             |
| <b>C</b> | <b>Replacement of Energy Meters in various locations (Three Phase)</b>                                                                                                                                                                                                                                                    |                |          |           |             |
|          | Supply, install, configure, test and commission Smart Electricity Meters for measurement of different electrical parameters listed elsewhere in the document including Active energy (kWh/MWh), Reactive energy (kVARh/MVARh), Apparent energy (kVAh/MVAh) etc.                                                           |                |          |           |             |
| 1.1      | Decommission and remove the existing Electricity Meters in various locations                                                                                                                                                                                                                                              | No.            | 90       |           |             |
| 1.2      | Supply, install and configure a new smart Electricity Meter with all the necessary comms required (communication module, GSM antenna etc.).                                                                                                                                                                               | No.            | 90       |           |             |
| 1.3      | Establish connectivity: Link the meters to the billing server and the new Utilities Management System, Create Accounts and apply the tariffs                                                                                                                                                                              | No.            | 90       |           |             |
| 1.4      | Test and commission the installation.                                                                                                                                                                                                                                                                                     | No.            | 90       |           |             |
|          | <b>CARRIED FORWARD TO SUMMARY EL</b>                                                                                                                                                                                                                                                                                      |                |          |           |             |
| ITEM     | DESCRIPTION                                                                                                                                                                                                                                                                                                               | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
| <b>D</b> | <b>COMMUNICATION</b>                                                                                                                                                                                                                                                                                                      |                |          |           |             |
| 1,1      | Standalone Fibre Network - Design, supply, install and patch 48 pair single mode fibre optic cable (652D)                                                                                                                                                                                                                 | m              | 12000    |           |             |
| 1,2      | Excavate and backfill where depth is not exceeding 2m deep                                                                                                                                                                                                                                                                | m <sup>3</sup> | 2160     |           |             |
| 1,3      | Supply and install 110mm PVC pipe and chamber system for the fibre.                                                                                                                                                                                                                                                       | m              | 12000    |           |             |
| 1,4      | Reinstate existing surface and make good                                                                                                                                                                                                                                                                                  | m <sup>2</sup> | 3750     |           |             |
| 1,5      | Supply and install patch panels fully populated 48 pair with Lucent Connector (LC) patch leads                                                                                                                                                                                                                            | No.            | 15       |           |             |
| 1,6      | Supply, install and configure 24 ports managed enterprise network switches including routing and setting up VLANs                                                                                                                                                                                                         | No.            | 15       |           |             |
| 1,7      | Supply and install a 9U swing frame cabinet 900mm deep                                                                                                                                                                                                                                                                    | No.            | 10       |           |             |
| 1,8      | Design and construction of Manholes for fibre                                                                                                                                                                                                                                                                             | No.            | 10       |           |             |
| 1,9      | Supply, install and setup the severs                                                                                                                                                                                                                                                                                      | No.            | 2        |           |             |
| 1,10     | Splicing of Fibres                                                                                                                                                                                                                                                                                                        | No.            | 360      |           |             |
| 1,11     | OTDR Testing (Test and submit line losses)                                                                                                                                                                                                                                                                                | No.            | 360      |           |             |
| 1,12     | Supply, install, configure and commission a Firewall for LAN, ensure that old and new services going through the Firewall are reinstated. Setup DMZ and position a management workstation within DMZ                                                                                                                      | Sum            | 1        |           |             |
| 1,13     | Supply and install management workstation desktops and link to TNPA corporate network. Setup rules for management workstation and provide dashboards whilst second LAN on machine connects to Transnet Data Network. Management station needs to be on Transnet domain and have relative Transnet Policies applied to it. | No.            | 1        |           |             |
| 1,14     | Supply and install the latest Microsoft SQL server (permanent license)                                                                                                                                                                                                                                                    | No.            | 2        |           |             |
|          | <b>CARRIED FORWARD TO SUMMARY EL</b>                                                                                                                                                                                                                                                                                      |                |          |           |             |

| ITEM     | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                          | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
| <b>E</b> | <b>PROCUREMENT AND SUPPLY OF SPARES</b>                                                                                                                                                                                                                                                                                                                                                                                                              |      |          |           |             |
| 1,1      | Smart automatic water meter reading devices                                                                                                                                                                                                                                                                                                                                                                                                          | No.  | 5        |           |             |
| 1,2      | Smart automatic energy meter reading devices                                                                                                                                                                                                                                                                                                                                                                                                         | No.  | 9        |           |             |
| 1,3      | Supply hand held automatic meter reading device (water & energy)                                                                                                                                                                                                                                                                                                                                                                                     | No.  | 2        |           |             |
|          | <b>CARRIED FORWARD TO SUMMARY EL</b>                                                                                                                                                                                                                                                                                                                                                                                                                 |      |          |           |             |
| ITEM     | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                          | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
| <b>F</b> | <b>AUTOMATIC METER READING (AMR) SYSTEM AND SOFTWARE INTEGRATION</b>                                                                                                                                                                                                                                                                                                                                                                                 |      |          |           |             |
| 1,1      | Supply, installation, configure and integrate the metering gateways onto the LAN and utilities management system for uploading water meter data.                                                                                                                                                                                                                                                                                                     | No.  | 5        |           |             |
| 1,2      | <b>New Utilities Management System</b><br>Development, Programming and Software integration into the billing server, tariff setup, designing billing template and setting up billing accounts on billing server. Configure the server to send an Alert (SMS) to TNPA for abnormalities. Including linking all Port meters to new utilites management system. Provide license package. Develop an API and link it to the back end of IPMS and SAP FRP | Sum  | 1        |           |             |
| 1,3      | Mapping the meters onto the Geographic Information System (GIS) showing the exact installation point, opening meter reading and the picture of the installation                                                                                                                                                                                                                                                                                      | Sum  | 1        |           |             |
| 1,4      | Testing and commissioning of the software side both individually and integrated system                                                                                                                                                                                                                                                                                                                                                               | Sum  | 1        |           |             |
| 1,5      | AMR Training for End Users                                                                                                                                                                                                                                                                                                                                                                                                                           | Sum  | 1        |           |             |
|          | <b>CARRIED FORWARD TO SUMMARY EL</b>                                                                                                                                                                                                                                                                                                                                                                                                                 |      |          |           |             |

| PORT OF EAST LONDON                    |                                                                         |        |
|----------------------------------------|-------------------------------------------------------------------------|--------|
|                                        | DESCRIPTION                                                             | AMOUNT |
|                                        | PORT OF EAST LONDON                                                     |        |
| A                                      | PRELIMINARIES AND GENERALS                                              |        |
| B                                      | SUPPLY AND INSTALLATION OF SMART AUTOMATIC WATER METER READING DEVICES  |        |
| C                                      | SUPPLY AND INSTALLATION OF SMART AUTOMATIC ENERGY METER READING DEVICES |        |
| D                                      | COMMUNICATION                                                           |        |
| E                                      | PROCUREMENT AND SUPPLY OF SPARES                                        |        |
| F                                      | AUTOMATIC METER READING (AMR) SYSTEM AND SOFTWARE INTEGRATION           |        |
| TOTAL CARRIED FORWARD TO SUMMARY PAGE: |                                                                         |        |

| PRELIMINARY AND GENERAL |                                                                                                                                                                                                                                                                                                                                                    |       |          |           |             |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------|-----------|-------------|
| ITEM                    | DESCRIPTION                                                                                                                                                                                                                                                                                                                                        | UNIT  | QUANTITY | RATE<br>R | AMOUNT<br>R |
|                         | <b>PORT OF NGQURA</b>                                                                                                                                                                                                                                                                                                                              |       |          |           |             |
|                         | <u>PREAMBLES</u>                                                                                                                                                                                                                                                                                                                                   |       |          |           |             |
|                         | Fixed preliminary items will be valuated and paid on a proven cost basis up to the total value<br><br>The tenderer is expected to understand the site, restrictions, and scope of work and price only the relevant items within the Preliminaries. All items priced will be assessed in relevance to the contract prior to any payments being made |       |          |           |             |
| <b>1</b>                | <b>FIXED-CHARGE ITEMS</b>                                                                                                                                                                                                                                                                                                                          |       |          |           |             |
|                         | <u>Contractual Requirements</u>                                                                                                                                                                                                                                                                                                                    |       |          |           |             |
| 1.1                     | Contractual Requirements: Allow for all contractual obligations in accordance with the NEC3 Engineering and Construction Contract (ECC), including the provision and maintenance of all required performance securities, guarantees, insurances, bonds, warranties, and statutory compliance for the full duration of the Contract.                | sum   | 1        |           |             |
|                         | <b>Establishment of Facilities on Site</b>                                                                                                                                                                                                                                                                                                         |       |          |           |             |
|                         | <b>Facilities for the Contractor</b>                                                                                                                                                                                                                                                                                                               |       |          |           |             |
| 1.2                     | Offices and storage sheds                                                                                                                                                                                                                                                                                                                          | sum   | 1        |           |             |
| 1.3                     | Ablution and latrine facilities                                                                                                                                                                                                                                                                                                                    | sum   | 1        |           |             |
| 1.4                     | Tools and equipment                                                                                                                                                                                                                                                                                                                                | sum   | 1        |           |             |
| 1.5                     | Water supplies, electric power and communications                                                                                                                                                                                                                                                                                                  | sum   | 1        |           |             |
| 1.6                     | Dealing with water                                                                                                                                                                                                                                                                                                                                 | sum   | 1        |           |             |
| 1.7                     | Access                                                                                                                                                                                                                                                                                                                                             | sum   | 1        |           |             |
| 1.8                     | Plant                                                                                                                                                                                                                                                                                                                                              | sum   | 1        |           |             |
|                         | <b>Other Fixed-charge Obligations:</b>                                                                                                                                                                                                                                                                                                             |       |          |           |             |
| 1.9                     | Survey, setting out and preparation of as-built drawings                                                                                                                                                                                                                                                                                           | sum   | 1        |           |             |
| 1.10                    | Health and Safety Compliance                                                                                                                                                                                                                                                                                                                       | sum   | 1        |           |             |
| 1.11                    | Environmental management                                                                                                                                                                                                                                                                                                                           | sum   | 1        |           |             |
|                         | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                                                                                                                             |       |          |           |             |
| PRELIMINARY AND GENERAL |                                                                                                                                                                                                                                                                                                                                                    |       |          |           |             |
| ITEM                    | DESCRIPTION                                                                                                                                                                                                                                                                                                                                        | UNIT  | QUANTITY | RATE<br>R | AMOUNT<br>R |
|                         | <b>BROUGHT FORWARD</b>                                                                                                                                                                                                                                                                                                                             |       |          |           |             |
| 1.12                    | Security                                                                                                                                                                                                                                                                                                                                           | sum   | 1        |           |             |
| 1.13                    | Removal of Site Establishment                                                                                                                                                                                                                                                                                                                      | sum   | 1        |           |             |
| 1.14                    | Plant                                                                                                                                                                                                                                                                                                                                              | sum   | 1        |           |             |
| <b>2</b>                | <b>TIME-RELATED ITEMS</b>                                                                                                                                                                                                                                                                                                                          |       |          |           |             |
|                         | Operation and maintenance of facilities on the Site for duration of construction                                                                                                                                                                                                                                                                   |       |          |           |             |
|                         | <u>Facilities for the Engineer</u>                                                                                                                                                                                                                                                                                                                 |       |          |           |             |
| 2.1                     | Survey assistants and materials                                                                                                                                                                                                                                                                                                                    | Month | 9        |           |             |
|                         | <b>Facilities for the Contractor</b>                                                                                                                                                                                                                                                                                                               |       |          |           |             |
| 2.2                     | Offices and storage sheds                                                                                                                                                                                                                                                                                                                          | Month | 9        |           |             |
| 2.3                     | Ablution and latrine facilities                                                                                                                                                                                                                                                                                                                    | Month | 9        |           |             |
| 2.4                     | Tools and equipment                                                                                                                                                                                                                                                                                                                                | Month | 9        |           |             |
| 2.5                     | Water supplies, electric power and communications                                                                                                                                                                                                                                                                                                  | Month | 9        |           |             |
| 2.6                     | Dealing with water (Sub-clause 5.5)                                                                                                                                                                                                                                                                                                                | Month | 9        |           |             |
| 2.7                     | Access (Sub-clause 5.8)                                                                                                                                                                                                                                                                                                                            | Month | 9        |           |             |
| 2.8                     | Plant                                                                                                                                                                                                                                                                                                                                              | Month | 9        |           |             |
|                         | <b>Supervision</b>                                                                                                                                                                                                                                                                                                                                 |       |          |           |             |
| 2.9                     | Supervision for duration of construction                                                                                                                                                                                                                                                                                                           | Month | 9        |           |             |
|                         | <b>Other time-related obligations</b>                                                                                                                                                                                                                                                                                                              |       |          |           |             |
| 2.10                    | Compliance Occupational Health and Safety Act and Construction Regulations                                                                                                                                                                                                                                                                         | Month | 9        |           |             |
| 2.11                    | Compliance to Environmental Management Plan                                                                                                                                                                                                                                                                                                        | Month | 9        |           |             |
|                         | <b>CARRIED FORWARD TO SUMMARY</b>                                                                                                                                                                                                                                                                                                                  |       |          |           |             |

| ITEM     | DESCRIPTION                                                                                                                                                                                                                                | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|-----------|-------------|
|          | <b>PORT OF NGQURA</b>                                                                                                                                                                                                                      |                |          |           |             |
| <b>B</b> | <b>SUPPLY AND INSTALLATION OF SMART METERS</b>                                                                                                                                                                                             |                |          |           |             |
| 1.1      | Investigations and site assessment (Refer to WI Clauses 4.3)                                                                                                                                                                               | sum            | 1        |           |             |
| 1.2      | Survey and Ground-Penetrating Radar (GPR) Scans on the route for any potential underground services                                                                                                                                        | m <sup>2</sup> | 31250    |           |             |
|          | <b>SITE CLEARANCE, SITEWORKS, ETC.</b>                                                                                                                                                                                                     |                |          |           |             |
|          | <b>Site Clearance</b>                                                                                                                                                                                                                      |                |          |           |             |
| 1.3      | Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth                                                                                                                         | m <sup>2</sup> | 5000     |           |             |
|          | <b>Earthworks</b>                                                                                                                                                                                                                          |                |          |           |             |
| 1.4      | Excavate and backfill where depth is not exceeding 2m deep (600mm x 600mm x 600mm)                                                                                                                                                         | m <sup>3</sup> | 53       |           |             |
|          | <b>SUPPLY AND INSTALLATION OF SMART WATER METERS</b>                                                                                                                                                                                       |                |          |           |             |
|          | <b>Below Ground Installation</b><br>Supply, install, test and commission smart water meters and shall be configured for measurement of water consumption (KL), alarm notification for high flow set points and trigger night flow analysis |                |          |           |             |
| <b>2</b> | <b>NMBM</b>                                                                                                                                                                                                                                |                |          |           |             |
| 2,1      | Decommission and remove the existing water meter.                                                                                                                                                                                          | No.            | 1        |           |             |
| 2,2      | Supply and install a new 450 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.                                                                                               | No.            | 1        |           |             |
| 2,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                                                                    | No.            | 1        |           |             |
| 2,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                                                                               | No.            | 1        |           |             |
| 2,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                                                                      | No.            | 1        |           |             |
| 2,6      | Test and commission the installation                                                                                                                                                                                                       | No.            | 1        |           |             |
| <b>3</b> | <b>Main Ent. Zone 1 (B1)</b>                                                                                                                                                                                                               |                |          |           |             |
| 3,1      | Decommission and remove the existing water meter.                                                                                                                                                                                          | No.            | 1        |           |             |
| 3,2      | Supply and install a new 315 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.                                                                                               | No.            | 1        |           |             |
| 3,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                                                                    | No.            | 1        |           |             |
| 3,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                                                                               | No.            | 1        |           |             |
| 3,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                                                                      | No.            | 1        |           |             |
| 3,6      | Test and commission the installation                                                                                                                                                                                                       | No.            | 1        |           |             |
| <b>4</b> | <b>Main Port Entrance (C1)</b>                                                                                                                                                                                                             |                |          |           |             |
| 4,1      | Decommission and remove the existing water meter.                                                                                                                                                                                          | No.            | 1        |           |             |
| 4,2      | Supply and install a new 110 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.                                                                                               | No.            | 1        |           |             |
| 4,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                                                                    | No.            | 1        |           |             |
| 4,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                                                                               | No.            | 1        |           |             |
| 4,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                                                                      | No.            | 1        |           |             |
| 4,6      | Test and commission the installation                                                                                                                                                                                                       | No.            | 1        |           |             |
|          | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                     |                |          |           |             |

| ITEM     | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|          | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>5</b> | <b>Main Port Entrance (C2)</b>                                                                                                                          |      |          |           |             |
| 5,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 5,2      | Supply and install a new 110 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 5,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 5,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 5,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 5,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>6</b> | <b>Main Port Entrance (C3)</b>                                                                                                                          |      |          |           |             |
| 6,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 6,2      | Supply and install a new 110 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 6,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 6,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 6,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 6,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>7</b> | <b>Joorst Park Offices (D)</b>                                                                                                                          |      |          |           |             |
| 7,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 7,2      | Supply and install a new 160 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 7,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 7,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 7,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 7,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>8</b> | <b>NCT Trailer Park (G1)</b>                                                                                                                            |      |          |           |             |
| 8,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 8,2      | Supply and install a new 250 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 8,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 8,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 8,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 8,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|          | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>9</b>  | <b>NCT Entrance (F)</b>                                                                                                                                 |      |          |           |             |
| 9,1       | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 9,2       | Supply and install a new 250 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 9,3       | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 9,4       | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 9,5       | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 9,6       | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>10</b> | <b>NCT Exit (Sec) – (H)</b>                                                                                                                             |      |          |           |             |
| 10,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 10,2      | Supply and install a new 250 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 10,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 10,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 10,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 10,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>11</b> | <b>NCT Entrance (Sec) – (I)</b>                                                                                                                         |      |          |           |             |
| 11,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 11,2      | Supply and install a new 250 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 11,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 11,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 11,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 11,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>12</b> | <b>NCT Admin Building (K)</b>                                                                                                                           |      |          |           |             |
| 12,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 12,2      | Supply and install a new 250 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 12,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 12,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 12,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 12,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>13</b> | <b>NCT Terminal Supply Nort Rail (L)</b>                                                                                                                |      |          |           |             |
| 13,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 13,2      | Supply and install a new 250 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 13,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 13,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 13,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 13,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>14</b> | <b>NCT Hauler Zone (N)</b>                                                                                                                              |      |          |           |             |
| 14,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 14,2      | Supply and install a new 250 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 14,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 14,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 14,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 14,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>15</b> | <b>NCT Workshop (S)</b>                                                                                                                                 |      |          |           |             |
| 15,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 15,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 15,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 15,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 15,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 15,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>16</b> | <b>Sand Bypass Main Pump Station (E)</b>                                                                                                                |      |          |           |             |
| 16,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 16,2      | Supply and install a new 63 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 16,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 16,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 16,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 16,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>17</b> | <b>BP1 (M)</b>                                                                                                                                          |      |          |           |             |
| 17,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 17,2      | Supply and install a new 250 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 17,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 17,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 17,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 17,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>18</b> | <b>BP2 (T)</b>                                                                                                                                          |      |          |           |             |
| 18,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 18,2      | Supply and install a new 250 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 18,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 18,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 18,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 18,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>19</b> | <b>BP3 (P)</b>                                                                                                                                          |      |          |           |             |
| 19,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 19,2      | Supply and install a new 160 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 19,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 19,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 19,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 19,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>20</b> | <b>TNPA Admin Building (V)</b>                                                                                                                          |      |          |           |             |
| 20,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 20,2      | Supply and install a new 110 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 20,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 20,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 20,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 20,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>21</b> | <b>(U)</b>                                                                                                                                              |      |          |           |             |
| 21,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           | R -         |
| 21,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           | R -         |
| 21,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           | R -         |
| 21,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           | R -         |
| 21,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           | R -         |
| 21,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           | R -         |
| 11,8      | Test and commission the installation                                                                                                                    | No.  | 1        |           | R -         |
| <b>22</b> | <b>(R)</b>                                                                                                                                              |      |          |           |             |
| 22,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 22,2      | Supply and install a new 200 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 22,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 22,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 22,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 22,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>23</b> | <b>Port Control (O)</b>                                                                                                                                 |      |          |           |             |
| 23,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 23,2      | Supply and install a new 110 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 23,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 23,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 23,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 23,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>24</b> | <b>ACB Admin (Q)</b>                                                                                                                                    |      |          |           |             |
| 24,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 24,2      | Supply and install a new 110 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 24,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 24,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 24,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 24,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>12</b> |                                                                                                                                                         |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                                                                                                                                   | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                                                                                                                        |      |          |           |             |
| <b>25</b> | <b>To Be Confirmed</b>                                                                                                                                                                                                                                        |      |          |           |             |
| 25,1      | Decommission and remove the existing water meter.                                                                                                                                                                                                             | No.  | 1        |           |             |
| 25,2      | Supply and install a new 25 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.                                                                                                                   | No.  | 1        |           |             |
| 25,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                                                                                       | No.  | 1        |           |             |
| 25,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                                                                                                  | No.  | 1        |           |             |
| 25,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                                                                                         | No.  | 1        |           |             |
| 25,6      | Test and commission the installation                                                                                                                                                                                                                          | No.  | 1        |           |             |
| <b>26</b> | <b>To Be Confirmed</b>                                                                                                                                                                                                                                        |      |          |           |             |
| 26,1      | Decommission and remove the existing water meter.                                                                                                                                                                                                             | No.  | 1        |           |             |
| 26,2      | Supply and install a new 40 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.                                                                                                                   | No.  | 1        |           |             |
| 26,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                                                                                       | No.  | 1        |           |             |
| 26,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                                                                                                  | No.  | 1        |           |             |
| 26,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                                                                                         | No.  | 1        |           |             |
| 26,6      | Test and commission the installation                                                                                                                                                                                                                          | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                                        |      |          |           |             |
| <b>13</b> |                                                                                                                                                                                                                                                               |      |          |           |             |
| ITEM      | DESCRIPTION                                                                                                                                                                                                                                                   | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|           | <b>SUPPLY AND INSTALLATION OF SMART ELECTRICITY METERS</b>                                                                                                                                                                                                    |      |          |           |             |
| <b>C</b>  | <b>Replacement of Energy Meters in various locations (Three Phase)</b>                                                                                                                                                                                        |      |          |           |             |
|           | Supply, install, configure, test and commission Smart Electricity Meters for measurement of different electrical parameters listed elsewhere in the document including Active energy (kWh/MWh), Reactive energy (kVAh/MVAh), Apparent energy (kVAh/MVAh) etc. |      |          |           |             |
| 1.3       | Decommission and remove the existing Electricity Meters in various locations                                                                                                                                                                                  | No.  | 3        |           |             |
| 1.4       | Re-wire the existing electrical circuits                                                                                                                                                                                                                      |      | 14       |           |             |
| 1.5       | Supply, install and configure a new smart Electricity Meter with all the necessary comms required (communication module, GSM antenna etc.).                                                                                                                   | No.  | 52       |           |             |
| 1.6       | Establish connectivity: Link the meters to the billing server and the new Utilities Management System, Create Accounts and apply the tariffs                                                                                                                  | No.  | 52       |           |             |
| 1.7       | Test and commission the installation.                                                                                                                                                                                                                         | No.  | 52       |           |             |
|           | <b>CARRIED FORWARD TO SUMMARY NGQURA</b>                                                                                                                                                                                                                      |      |          |           |             |
| <b>14</b> |                                                                                                                                                                                                                                                               |      |          |           |             |

| ITEM     | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                            | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
| <b>D</b> | <b>COMMUNICATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |          |           |             |
| 1,1      | Standalone Fibre Network - Design, supply, install and patch 48 pair single mode fibre optic cable (652D)                                                                                                                                                                                                                                                                                                                                              | m    | 10000    |           |             |
| 1,2      | Excavate and backfill where depth is not exceeding 2m deep                                                                                                                                                                                                                                                                                                                                                                                             | m3   | 1800     |           |             |
| 1,3      | Supply and install 110mm PVC pipe and chamber system for the fibre.                                                                                                                                                                                                                                                                                                                                                                                    | m    | 10000    |           |             |
| 1,4      | Reinstate existing surface and make good                                                                                                                                                                                                                                                                                                                                                                                                               | m2   | 3000     |           |             |
| 1,5      | Supply and install patch panels fully populated 48 pair with Lucent Connector (LC) patch leads                                                                                                                                                                                                                                                                                                                                                         | No.  | 12       |           |             |
| 1,6      | Supply, install and configure 24 ports managed enterprise network switches including routing and setting up VLANs                                                                                                                                                                                                                                                                                                                                      | No.  | 12       |           |             |
| 1,7      | Supply and install a 9U swing frame cabinet 900mm deep                                                                                                                                                                                                                                                                                                                                                                                                 | No.  | 8        |           |             |
| 1,8      | Design and construction of Manholes for fibre                                                                                                                                                                                                                                                                                                                                                                                                          | No.  | 8        |           |             |
| 1,9      | Supply, install and setup the servers                                                                                                                                                                                                                                                                                                                                                                                                                  | No.  | 6        |           |             |
| 1,10     | Splicing of Fibres                                                                                                                                                                                                                                                                                                                                                                                                                                     | No.  | 288      |           |             |
| 1,11     | OTDR Testing (Test and submit line losses)                                                                                                                                                                                                                                                                                                                                                                                                             | No.  | 288      |           |             |
| 1,12     | Supply, install, configure and commission a Firewall for LAN, ensure that old and new services going through the Firewall are reinstated. Setup DMZ and position a management workstation within DMZ                                                                                                                                                                                                                                                   | Sum  | 1        |           |             |
| 1,13     | Supply and install management workstation desktops and link to TNPA corporate network. Setup rules for management workstation and provide dashboards whilst second LAN on machine connects to Transnet Data Network. Management station needs to be on Transnet domain and have relative Transnet Policies applied to it.                                                                                                                              | No.  | 3        |           |             |
| 1,14     | Supply and install the latest Microsoft SQL server (permanent license)                                                                                                                                                                                                                                                                                                                                                                                 | No.  | 2        |           |             |
|          | <b>CARRIED FORWARD TO SUMMARY NGQURA</b>                                                                                                                                                                                                                                                                                                                                                                                                               |      |          |           |             |
| 15       |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |          |           |             |
| ITEM     | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                            | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
| <b>E</b> | <b>PROCUREMENT AND SUPPLY OF SPARES</b>                                                                                                                                                                                                                                                                                                                                                                                                                |      |          |           |             |
| 1,1      | Smart automatic water meter reading devices                                                                                                                                                                                                                                                                                                                                                                                                            | No.  | 3        |           |             |
| 1,2      | Smart automatic energy meter reading devices                                                                                                                                                                                                                                                                                                                                                                                                           | No.  | 3        |           |             |
| 1,3      | Supply hand held automatic meter reading device (water & energy)                                                                                                                                                                                                                                                                                                                                                                                       | No.  | 2        |           |             |
|          | <b>CARRIED FORWARD TO SUMMARY NGQURA</b>                                                                                                                                                                                                                                                                                                                                                                                                               |      |          |           |             |
| 16       |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |          |           |             |
| ITEM     | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                            | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
| <b>F</b> | <b>AUTOMATIC METER READING (AMR) SYSTEM AND SOFTWARE INTEGRATION</b>                                                                                                                                                                                                                                                                                                                                                                                   |      |          |           |             |
| 1,1      | Supply, installation, configure and integrate the metering gateways onto the LAN and utilities management system for uploading water meter data.                                                                                                                                                                                                                                                                                                       | No.  | 5        |           |             |
| 1,2      | <b>New Utilities Management System</b><br>Development, Programming and Software integration into the billing server, tariff setup, designing billing template and setting up billing accounts on billing server. Configure the server to send an Alert (SMS) to TNPA for abnormalities. Including linking all Port meters to new utilities management system. Provide license package. Develop an API and link it to the back end of IPMS and SAP ERP. | Sum  | 1        |           |             |
| 1,3      | Mapping the meters onto the Geographic Information System (GIS) showing the exact installation point, opening meter reading and the picture of the installation                                                                                                                                                                                                                                                                                        | Sum  | 1        |           |             |
| 1,4      | Testing and commissioning of the software side both individually and integrated system                                                                                                                                                                                                                                                                                                                                                                 | Sum  | 1        |           |             |
| 1,5      | AMR Training for End Users                                                                                                                                                                                                                                                                                                                                                                                                                             | Sum  | 1        |           |             |
|          | <b>CARRIED FORWARD TO SUMMARY NGQURA</b>                                                                                                                                                                                                                                                                                                                                                                                                               |      |          |           |             |

| PORT OF NGQURA                                |                                                                         |        |
|-----------------------------------------------|-------------------------------------------------------------------------|--------|
|                                               | DESCRIPTION                                                             | AMOUNT |
|                                               | <b>PORT OF NGQURA</b>                                                   |        |
| A                                             | PRELIMINARIES AND GENERALS                                              |        |
| B                                             | SUPPLY AND INSTALLATION OF SMART AUTOMATIC WATER METER READING DEVICES  |        |
| C                                             | SUPPLY AND INSTALLATION OF SMART AUTOMATIC ENERGY METER READING DEVICES |        |
| D                                             | COMMUNICATION                                                           |        |
| E                                             | PROCUREMENT AND SUPPLY OF SPARES                                        |        |
| F                                             | AUTOMATIC METER READING (AMR) SYSTEM AND SOFTWARE INTEGRATION           |        |
| <b>TOTAL CARRIED FORWARD TO SUMMARY PAGE:</b> |                                                                         |        |

| PRELIMINARY AND GENERAL |                                                                                                                                                                                                                                                                                                                                                    |      |          |           |             |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
| ITEM                    | DESCRIPTION                                                                                                                                                                                                                                                                                                                                        | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|                         | <b>PORT OF PORT ELIZABETH</b>                                                                                                                                                                                                                                                                                                                      |      |          |           |             |
|                         | <u>PREAMBLES</u>                                                                                                                                                                                                                                                                                                                                   |      |          |           |             |
|                         | Fixed preliminary items will be valuated and paid on a proven cost basis up to the total value<br><br>The tenderer is expected to understand the site, restrictions, and scope of work and price only the relevant items within the Preliminaries. All items priced will be assessed in relevance to the contract prior to any payments being made |      |          |           |             |
| <b>A</b>                | <b>FIXED-CHARGE ITEMS</b>                                                                                                                                                                                                                                                                                                                          |      |          |           |             |
|                         | <u>Contractual Requirements</u>                                                                                                                                                                                                                                                                                                                    |      |          |           |             |
| 1.1                     | Contractual Requirements: Allow for all contractual obligations in accordance with the NEC3 Engineering and Construction Contract (ECC), including the provision and maintenance of all required performance securities, guarantees, insurances, bonds, warranties, and statutory compliance for the full duration of the Contract.                | sum  | 1        |           |             |
|                         | <b>Establishment of Facilities on Site</b>                                                                                                                                                                                                                                                                                                         |      |          |           |             |
|                         | <b>Facilities for the Contractor</b>                                                                                                                                                                                                                                                                                                               |      |          |           |             |
| 1.2                     | Offices and storage sheds                                                                                                                                                                                                                                                                                                                          | sum  | 1        |           |             |
| 1.3                     | Ablution and latrine facilities                                                                                                                                                                                                                                                                                                                    | sum  | 1        |           |             |
| 1.4                     | Tools and equipment                                                                                                                                                                                                                                                                                                                                | sum  | 1        |           |             |
| 1.5                     | Water supplies, electric power and communications                                                                                                                                                                                                                                                                                                  | sum  | 1        |           |             |
| 1.6                     | Dealing with water                                                                                                                                                                                                                                                                                                                                 | sum  | 1        |           |             |
| 1.7                     | Access                                                                                                                                                                                                                                                                                                                                             | sum  | 1        |           |             |
| 1.8                     | Plant                                                                                                                                                                                                                                                                                                                                              | sum  | 1        |           |             |
|                         | <b>Other Fixed-charge Obligations:</b>                                                                                                                                                                                                                                                                                                             |      |          |           |             |
| 1.9                     | Survey, setting out and preparation of as-built drawings                                                                                                                                                                                                                                                                                           | sum  | 1        |           |             |
| 1.10                    | Health and Safety Compliance                                                                                                                                                                                                                                                                                                                       | sum  | 1        |           |             |
| 1.11                    | Environmental management                                                                                                                                                                                                                                                                                                                           | sum  | 1        |           |             |
|                         | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                                                                                                                             |      |          |           |             |

|      | <b>PRELIMINARY AND GENERAL</b>                                                   |       |          |           |             |
|------|----------------------------------------------------------------------------------|-------|----------|-----------|-------------|
| ITEM | DESCRIPTION                                                                      | UNIT  | QUANTITY | RATE<br>R | AMOUNT<br>R |
|      | <b>BROUGHT FORWARD</b>                                                           |       |          |           |             |
| 1.12 | Security                                                                         | sum   | 1        |           |             |
| 1.13 | Removal of Site Establishment                                                    | sum   | 1        |           |             |
| 1.14 | Plant                                                                            | sum   | 1        |           |             |
|      | Operation and maintenance of facilities on the Site for duration of construction |       |          |           |             |
|      | <b><u>Facilities for the Engineer</u></b>                                        |       |          |           |             |
| 2.1  | Survey assistants and materials                                                  | Month | 12       |           |             |
|      | <b><u>Facilities for the Contractor</u></b>                                      |       |          |           |             |
| 2.2  | Offices and storage sheds                                                        | Month | 12       |           |             |
| 2.3  | Ablution and latrine facilities                                                  | Month | 12       |           |             |
| 2.4  | Tools and equipment                                                              | Month | 12       |           |             |
| 2.5  | Water supplies, electric power and communications                                | Month | 12       |           |             |
| 2.6  | Dealing with water (Sub-clause 5.5)                                              | Month | 12       |           |             |
| 2.7  | Access (Sub-clause 5.8)                                                          | Month | 12       |           |             |
| 2.8  | Plant                                                                            | Month | 12       |           |             |
|      | <b>Supervision</b>                                                               |       |          |           |             |
| 2.9  | Supervision for duration of construction                                         | Month | 12       |           |             |
|      | <b>Other time-related obligations</b>                                            |       |          |           |             |
| 2.10 | Compliance Occupational Health and Safety Act and Construction Regulations       | Month | 12       |           |             |
| 2.11 | Compliance to Environmental Management Plan                                      | Month | 12       |           |             |
|      | <b>CARRIED FORWARD TO SUMMARY</b>                                                |       |          |           |             |

| ITEM     | DESCRIPTION                                                                                                                                                                                                                                | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|-----------|-------------|
|          | <b>PORT OF PORT ELIZABETH</b>                                                                                                                                                                                                              |                |          |           |             |
| <b>B</b> | <b>SUPPLY AND INSTALLATION OF SMART METERS</b>                                                                                                                                                                                             |                |          |           |             |
| 1.1      | Investigations and site assessment (Refer to WI Clauses 4.3)                                                                                                                                                                               | sum            | 1        |           |             |
| 1.2      | Survey and Ground-Penetrating Radar (GPR) Scans on the route for any potential underground services                                                                                                                                        | m <sup>2</sup> | 31250    |           |             |
|          | <b>SITE CLEARANCE, SITEWORKS, ETC.</b>                                                                                                                                                                                                     |                |          |           |             |
|          | <b>Site Clearance</b>                                                                                                                                                                                                                      |                |          |           |             |
| 1.3      | Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth                                                                                                                         | m <sup>2</sup> | 6000     |           |             |
|          | <b>Earthworks</b>                                                                                                                                                                                                                          |                |          |           |             |
| 1.4      | Excavate and backfill where depth is not exceeding 2m deep (600mm x 600mm x 600mm)                                                                                                                                                         | m <sup>3</sup> | 53       |           |             |
|          | <b>SUPPLY AND INSTALLATION OF SMART WATER METERS</b>                                                                                                                                                                                       |                |          |           |             |
|          | <b>Below Ground Installation</b><br>Supply, install, test and commission smart water meters and shall be configured for measurement of water consumption (KL), alarm notification for high flow set points and trigger night flow analysis |                |          |           |             |
| <b>2</b> | <b>Procurement:<br/>Replacement of the meter including associated components, Meter size: 15mm</b>                                                                                                                                         |                |          |           |             |
| 2,1      | Decommission and remove the existing water meter.                                                                                                                                                                                          | No.            | 1        |           |             |
| 2,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                                                                                                       | No.            | 1        |           |             |
| 2,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                                                                    | No.            | 1        |           |             |
| 2,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                                                                               | No.            | 1        |           |             |
| 2,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                                                                      | No.            | 1        |           |             |
| 2,6      | Test and commission the installation                                                                                                                                                                                                       | No.            | 1        |           |             |
| <b>3</b> | <b>Security cabin green street:<br/>Replacement of the meter including associated components, Meter size: 15mm</b>                                                                                                                         |                |          |           |             |
| 3,1      | Decommission and remove the existing water meter.                                                                                                                                                                                          | No.            | 1        |           |             |
| 3,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                                                                                                       | No.            | 1        |           |             |
| 3,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                                                                    | No.            | 1        |           |             |
| 3,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                                                                               | No.            | 1        |           |             |
| 3,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                                                                      | No.            | 1        |           |             |
| 3,6      | Test and commission the installation                                                                                                                                                                                                       | No.            | 1        |           |             |
| <b>4</b> | <b>Clinic:<br/>Replacement of the meter including associated components, Meter size: 15mm</b>                                                                                                                                              |                |          |           |             |
| 4,1      | Decommission and remove the existing water meter.                                                                                                                                                                                          | No.            | 1        |           |             |
| 4,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                                                                                                       | No.            | 1        |           |             |
| 4,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                                                                    | No.            | 1        |           |             |
| 4,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                                                                               | No.            | 1        |           |             |
| 4,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                                                                      | No.            | 1        |           |             |
| 4,6      | Test and commission the installation                                                                                                                                                                                                       | No.            | 1        |           |             |
|          | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                     |                |          |           |             |

| ITEM     | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|          | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>5</b> | <b>SHEQ Building TPT:<br/>Replacement of the meter including associated components, Meter size: 15mm</b>                                                |      |          |           |             |
| 5,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 5,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 5,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 5,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 5,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 5,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>6</b> | <b>VW Office opposite Shed 101:<br/>Replacement of the meter including associated components, Meter size: 15mm</b>                                      |      |          |           |             |
| 6,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 6,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 6,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 6,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 6,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 6,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>7</b> | <b>Shunters Cabin (TFR):<br/>Replacement of the meter including associated components, Meter size: 15mm</b>                                             |      |          |           |             |
| 7,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 7,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 7,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 7,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 7,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 7,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>8</b> | <b>Black Impala:<br/>Replacement of the meter including associated components, Meter size: 15mm</b>                                                     |      |          |           |             |
| 8,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 8,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 8,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 8,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 8,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 8,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|          | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>9</b>  | <b>Rennies Group:<br/>Replacement of the meter including associated components, Meter size: 15mm</b>                                                    |      |          |           |             |
| 9,1       | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 9,2       | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 9,3       | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 9,4       | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 9,5       | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 9,6       | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>10</b> | <b>Greystone Cargo Systems (PTY) LTD:<br/>Replacement of the meter including associated components, Meter size: 15 mm</b>                               |      |          |           |             |
| 10,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 10,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 10,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 10,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 10,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 10,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>11</b> | <b>Bidfreight Port Operations (PTY) LTD:<br/>Replacement of the meter including associated components, Meter size: 15 mm</b>                            |      |          |           |             |
| 11,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 2        |           |             |
| 11,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 2        |           |             |
| 11,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 2        |           |             |
| 11,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 2        |           |             |
| 11,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 2        |           |             |
| 11,6      | Test and commission the installation                                                                                                                    | No.  | 2        |           |             |
| <b>12</b> | <b>J.L Wessels:<br/>Replacement of the meter including associated components, Meter size: 15 mm</b>                                                     |      |          |           |             |
| 12,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 12,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 12,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 12,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 12,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 12,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>13</b> | <b>Commercial Marine:<br/>Replacement of the meter including associated components, Meter size: 15 mm</b>                                               |      |          |           |             |
| 13,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 13,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 13,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 13,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 13,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 13,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>14</b> | <b>CDC Commercial Divers:<br/>Replacement of the meter including associated components, Meter size: 15 mm</b>                                           |      |          |           |             |
| 14,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 14,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 14,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 14,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 14,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 14,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>15</b> | <b>Security Foot Bridge:<br/>Replacement of the meter including associated components, Meter size: 22 mm</b>                                            |      |          |           |             |
| 15,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 15,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 15,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 15,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 15,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 15,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>16</b> | <b>HR Offices/ Building:<br/>Replacement of the meter including associated components, Meter size: 22 mm</b>                                            |      |          |           |             |
| 16,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 16,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 16,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 16,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 16,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 16,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>17</b> | <b>103 Tower:<br/>Replacement of the meter including associated components, Meter size: 22 mm</b>                                                       |      |          |           |             |
| 17,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 17,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 17,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 17,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 17,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 17,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>18</b> | <b>102 Tower:<br/>Replacement of the meter including associated components, Meter size: 22 mm</b>                                                       |      |          |           |             |
| 18,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 18,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 18,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 18,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 18,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 18,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>19</b> | <b>Security Container Entrance:<br/>Replacement of the meter including associated components, Meter size: 22 mm</b>                                     |      |          |           |             |
| 19,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 19,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 19,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 19,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 19,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 19,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>20</b> | <b>103 Quay Side:<br/>Replacement of the meter including associated components, Meter size: 22 mm</b>                                                   |      |          |           |             |
| 20,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 20,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 20,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 20,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 20,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 20,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>21</b> | <b>102 Quay Side:<br/>Replacement of the meter including associated components, Meter size: 22 mm</b>                                                   |      |          |           |             |
| 21,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 21,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 21,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 21,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 21,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 21,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>22</b> | <b>Shed 101:<br/>Replacement of the meter including associated components, Meter size: 22 mm</b>                                                        |      |          |           |             |
| 22,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 22,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 22,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 22,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 22,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 22,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>23</b> | <b>Car Terminal Admin Office:<br/>Replacement of the meter including associated components, Meter size: 22 mm</b>                                       |      |          |           |             |
| 23,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 23,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 23,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 23,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 23,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 23,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>24</b> | <b>Spoornet:<br/>Replacement of the meter including associated components, Meter size: 22 mm</b>                                                        |      |          |           |             |
| 24,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 24,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 24,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 24,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 24,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 24,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>25</b> | <b>Malgas (TFR):<br/>Replacement of the meter including associated components, Meter size: 22 mm</b>                                                    |      |          |           |             |
| 25,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 25,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 25,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 25,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 25,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 25,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>26</b> | <b>National Sea Rescue Institute:<br/>Replacement of the meter including associated components, Meter size: 22 mm</b>                                   |      |          |           |             |
| 26,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 26,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 26,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 26,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 26,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 26,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>27</b> | <b>Stormfire Trading 11 CC:<br/>Replacement of the meter including associated components, Meter size: 22 mm</b>                                         |      |          |           |             |
| 27,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 27,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 27,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 27,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 27,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 27,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>28</b> | <b>Tabak:<br/>Replacement of the meter including associated components, Meter size: 22 mm</b>                                                           |      |          |           |             |
| 28,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 28,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 28,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 28,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 28,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 28,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>29</b> | <b>Umsobomvu (No.2):<br/>Replacement of the meter including associated components, Meter size: 22 mm</b>                                                |      |          |           |             |
| 29,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 29,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 29,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 29,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 29,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 29,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>30</b> | <b>Shell South Africa Marketing (PTY)LTD:<br/>Replacement of the meter including associated components, Meter size: 22 mm</b>                           |      |          |           |             |
| 30,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 2        |           |             |
| 30,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 30,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | m    | 8        |           |             |
| 30,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 30,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 30,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>31</b> | <b>Shell SA (PTY) LTD<br/>Replacement of the meter including associated components, Meter size: 22 mm</b>                                               |      |          |           |             |
| 31,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 31,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 31,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 31,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 31,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 31,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>32</b> | <b>Extreme Projects:<br/>Replacement of the meter including associated components, Meter size: 22 mm</b>                                                |      |          |           |             |
| 32,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 32,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 32,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 32,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 32,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 32,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>33</b> | <b>DS +CL Sgacace Fishing Farming<br/>Replacement of the meter including associated components, Meter size: 22 mm</b>                                   |      |          |           |             |
| 33,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 33,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 33,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 33,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 33,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 33,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>34</b> | <b>CVC Africa:<br/>Replacement of the meter including associated components, Meter size: 22 mm</b>                                                      |      |          |           |             |
| 34,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 34,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 34,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 34,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 34,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 34,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>35</b> | <b>Toilet TPM Kepli Petroleum<br/>Replacement of the meter including associated components, Meter size: 22 mm</b>                                       |      |          |           |             |
| 35,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 35,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 35,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 35,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 35,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 35,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>36</b> | <b>Blue Water Fishing:<br/>Replacement of the meter including associated components, Meter size: 22 mm</b>                                              |      |          |           |             |
| 36,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 36,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 36,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 36,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 36,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 36,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           | R -         |
| <b>37</b> | <b>Van Niekerk/ Zandalee:<br/>Replacement of the meter including associated components, Meter size: 22 mm</b>                                           |      |          |           |             |
| 37,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 37,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 37,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 37,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 37,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 37,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>38</b> | <b>Kepu Petroleum:<br/>Replacement of the meter including associated components, Meter size: 22 mm</b>                                                  |      |          |           |             |
| 38,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 38,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 38,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 38,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 38,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 38,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>39</b> | <b>Algoa Bay Sailing Marina:<br/>Replacement of the meter including associated components, Meter size: 22 mm</b>                                        |      |          |           |             |
| 39,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 39,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 39,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 39,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 39,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 39,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>40</b> | <b>Albatross Offshore Services (PTY)LTD:<br/>Replacement of the meter including associated components, Meter size: 22 mm</b>                            |      |          |           |             |
| 40,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 40,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 40,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 40,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 40,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 40,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>41</b> | <b>Albatross:<br/>Replacement of the meter including associated components, Meter size: 22 mm</b>                                                       |      |          |           |             |
| 41,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 41,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 41,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 41,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 41,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 41,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>42</b> | <b>Rail to Rail – Red Grouwa (No.1):<br/>Replacement of the meter including associated components, Meter size: 22 mm</b>                                |      |          |           |             |
| 42,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 42,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 42,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 42,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 42,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 42,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>43</b> | <b>Camanga:<br/>Replacement of the meter including associated components, Meter size: 22 mm</b>                                                         |      |          |           |             |
| 43,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 43,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 43,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 43,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 43,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 43,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>44</b> | <b>Blue Water Fish Traders:<br/>Replacement of the meter including associated components, Meter size: 22 mm</b>                                         |      |          |           |             |
| 44,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 44,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 44,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 44,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 44,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 44,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>45</b> | <b>Bureau Veritus:<br/>Replacement of the meter including associated components, Meter size: 22 mm</b>                                                  |      |          |           |             |
| 45,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 45,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 45,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 45,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 45,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 45,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>46</b> | <b>Tanker Berth Control Room:<br/>Replacement of the meter including associated components, Meter size: 22 mm</b>                                       |      |          |           |             |
| 46,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 46,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 46,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 46,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 46,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 46,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>47</b> | <b>Tanker Berth Security Cabin:<br/>Replacement of the meter including associated components, Meter size: 22 mm</b>                                     |      |          |           |             |
| 47,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 47,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 47,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 47,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 47,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 47,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>48</b> | <b>Rail Buildings (3):<br/>Replacement of the meter including associated components, Meter size: 22 mm</b>                                              |      |          |           |             |
| 48,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 48,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 48,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 48,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 48,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 48,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>49</b> | <b>Engen Petroleum Limited:<br/>Replacement of the meter including associated components, Meter size: 25 mm</b>                                         |      |          |           |             |
| 49,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 49,2      | Supply and install a new 25 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 49,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 49,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 49,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 49,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>50</b> | <b>Shell South Africa (PTY) LTD:<br/>Replacement of the meter including associated components, Meter size: 25 mm</b>                                    |      |          |           |             |
| 50,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 50,2      | Supply and install a new 25 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 50,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 50,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 50,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 50,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>51</b> | <b>Chevron South Africa (PTY) LTD:<br/>Replacement of the meter including associated components, Meter size: 25 mm</b>                                  |      |          |           |             |
| 51,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 51,2      | Supply and install a new 25 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 51,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 51,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 51,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 51,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>52</b> | <b>Umsobomvu:<br/>Replacement of the meter including associated components, Meter size: 25 mm</b>                                                       |      |          |           |             |
| 52,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 52,2      | Supply and install a new 25 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 52,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 52,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 52,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 52,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>53</b> | <b>Finance Building:<br/>Replacement of the meter including associated components, Meter size: 32 mm</b>                                                |      |          |           |             |
| 53,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 53,2      | Supply and install a new 32 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 53,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 53,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 53,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 53,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>54</b> | <b>Bus Depot (Clinic):<br/>Replacement of the meter including associated components, Meter size: 32 mm</b>                                              |      |          |           |             |
| 54,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 54,2      | Supply and install a new 32 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 54,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 54,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 54,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 54,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>55</b> | <b>Shed 12 TPT Ablutions:<br/>Replacement of the meter including associated components, Meter size: 32 mm</b>                                           |      |          |           |             |
| 55,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 55,2      | Supply and install a new 32 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 55,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 55,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 55,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 55,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>56</b> | <b>Shunters T/S Double Storey:<br/>Replacement of the meter including associated components, Meter size: 32 mm</b>                                      |      |          |           |             |
| 56,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 56,2      | Supply and install a new 32 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 56,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 56,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 56,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 56,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>57</b> | <b>Shell South Africa (PTY) LTD:<br/>Replacement of the meter including associated<br/>components, Meter size: 32 mm</b>                                |      |          |           |             |
| 57,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 57,2      | Supply and install a new 32 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 57,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 57,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 57,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 57,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>58</b> | <b>Total Oil SA (PTY) LTD:<br/>Replacement of the meter including associated<br/>components, Meter size: 32 mm</b>                                      |      |          |           |             |
| 58,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 58,2      | Supply and install a new 32 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 58,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 58,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 58,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 58,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>59</b> | <b>ABSM Crane:<br/>Replacement of the meter including associated<br/>components, Meter size: 32 mm</b>                                                  |      |          |           |             |
| 59,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 59,2      | Supply and install a new 32 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 59,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 59,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 59,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 59,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>60</b> | <b>Eyethu Fishing (PTY) LTD:<br/>Replacement of the meter including associated components, Meter size: 32 mm</b>                                        |      |          |           |             |
| 60,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 60,2      | Supply and install a new 32 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 60,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 60,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 60,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 60,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>61</b> | <b>Talhado Fishing<br/>Replacement of the meter including associated components, Meter size: 32 mm</b>                                                  |      |          |           |             |
| 61,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 61,2      | Supply and install a new 32 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 61,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 61,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 61,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 61,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>62</b> | <b>Fingcorp 113 CC:<br/>Replacement of the meter including associated components, Meter size: 32 mm</b>                                                 |      |          |           |             |
| 62,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 62,2      | Supply and install a new 32 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 62,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 62,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 62,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 62,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>63</b> | <b>Vacant Building 1:<br/>Replacement of the meter including associated components, Meter size: 32 mm</b>                                               |      |          |           |             |
| 63,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 63,2      | Supply and install a new 32 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 63,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 63,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 63,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 63,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>64</b> | <b>Vacant Building 2:<br/>Replacement of the meter including associated components, Meter size: 32 mm</b>                                               |      |          |           |             |
| 64,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 64,2      | Supply and install a new 32 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 64,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 64,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 64,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 64,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>65</b> | <b>Vacant Building 3<br/>Replacement of the meter including associated components, Meter size: 32 mm</b>                                                |      |          |           |             |
| 65,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 65,2      | Supply and install a new 32 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 65,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 65,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 65,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 65,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           | R -         |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           | R -         |
| <b>66</b> | <b>Vacant Building 4:<br/>Replacement of the meter including associated components, Meter size: 32 mm</b>                                               |      |          |           |             |
| 66,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 66,2      | Supply and install a new 32 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           | R -         |
| 66,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           | R -         |
| 66,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           | R -         |
| 66,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           | R -         |
| 66,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           | R -         |
| <b>67</b> | <b>CVC Building (Ablution Block):<br/>Replacement of the meter including associated components, Meter size: 32 mm</b>                                   |      |          |           |             |
| 67,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 67,2      | Supply and install a new 32 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 67,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 67,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 67,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 67,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>68</b> | <b>Ore Berth (Ablution Block):<br/>Replacement of the meter including associated components, Meter size: 32 mm</b>                                      |      |          |           |             |
| 68,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 68,2      | Supply and install a new 32 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 68,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 68,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 68,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 68,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>69</b> | <b>Civil Depot:<br/>Replacement of the meter including associated components, Meter size: 40 mm</b>                                                     |      |          |           |             |
| 69,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 69,2      | Supply and install a new 40 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 69,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 69,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 69,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 69,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>70</b> | <b>Business Manager (MPT):<br/>Replacement of the meter including associated components, Meter size: 40 mm</b>                                          |      |          |           |             |
| 70,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 70,2      | Supply and install a new 40 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 70,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 70,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 70,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 70,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>71</b> | <b>ULwandle (Next to Oyster):<br/>Replacement of the meter including associated components, Meter size: 40 mm</b>                                       |      |          |           |             |
| 71,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 71,2      | Supply and install a new 40 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 71,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 71,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 71,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 71,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>72</b> | <b>Live Fish Tanks (East Coast):<br/>Replacement of the meter including associated components, Meter size: 40 mm</b>                                    |      |          |           |             |
| 72,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 72,2      | Supply and install a new 40 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 72,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 72,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 72,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 72,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>73</b> | <b>Department of Public Works:<br/>Replacement of the meter including associated components, Meter size: 40 mm</b>                                      |      |          |           |             |
| 73,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 73,2      | Supply and install a new 40 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 73,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 73,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 73,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 73,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>74</b> | <b>Alvodex CC:<br/>Replacement of the meter including associated components, Meter size: 40 mm</b>                                                      |      |          |           |             |
| 74,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 74,2      | Supply and install a new 40 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 74,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 74,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 74,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 74,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>75</b> | <b>Pumpstation House (Seawater):<br/>Replacement of the meter including associated<br/>components, Meter size: 40 mm</b>                                |      |          |           |             |
| 75,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 75,2      | Supply and install a new 40 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 75,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 75,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 75,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 75,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>76</b> | <b>Trade Motto (1):<br/>Replacement of the meter including associated<br/>components, Meter size: 40 mm</b>                                             |      |          |           |             |
| 76,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 76,2      | Supply and install a new 40 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 76,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 76,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 76,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 76,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>77</b> | <b>Trade Motto (2):<br/>Replacement of the meter including associated<br/>components, Meter size: 40 mm</b>                                             |      |          |           |             |
| 77,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 77,2      | Supply and install a new 40 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 77,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 77,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 77,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 77,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           | R -         |
| <b>78</b> | <b>Rail Buildings (1):<br/>Replacement of the meter including associated components, Meter size: 40 mm</b>                                              |      |          |           |             |
| 78,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 78,2      | Supply and install a new 40 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 78,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 78,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 78,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 78,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>79</b> | <b>Rail Buildings (2):<br/>Replacement of the meter including associated components, Meter size: 40 mm</b>                                              |      |          |           |             |
| 79,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 79,2      | Supply and install a new 40 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 79,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 79,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 79,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 79,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>80</b> | <b>Marine Services:<br/>Replacement of the meter including associated components, Meter size: 50 mm</b>                                                 |      |          |           |             |
| 80,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 2        |           |             |
| 80,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 2        |           |             |
| 80,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 2        |           |             |
| 80,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 2        |           |             |
| 80,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 2        |           |             |
| 80,6      | Test and commission the installation                                                                                                                    | No.  | 2        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>81</b> | <b>Port Admin Building (Port Authority):<br/>Replacement of the meter including associated<br/>components, Meter size: 50 mm</b>                        |      |          |           |             |
| 81,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 81,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 81,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 81,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 81,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 81,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>82</b> | <b>Port Control Tower (Port Captain)<br/>Replacement of the meter including associated<br/>components, Meter size: 50 mm</b>                            |      |          |           |             |
| 82,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 82,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 82,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 82,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 82,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 82,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>83</b> | <b>Minor Building (Offices):<br/>Replacement of the meter including associated<br/>components, Meter size: 50 mm</b>                                    |      |          |           |             |
| 83,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 83,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 83,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 83,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 83,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 83,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>84</b> | <b>Minor Building (Ablutions):<br/>Replacement of the meter including associated components, Meter size: 50 mm</b>                                      |      |          |           |             |
| 84,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 84,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 84,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 84,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 84,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 84,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>85</b> | <b>TPT Offices:<br/>Replacement of the meter including associated components, Meter size: 50 mm</b>                                                     |      |          |           |             |
| 85,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 85,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 85,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 85,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 85,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 85,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>86</b> | <b>Shell South Africa (PTY) LTD:<br/>Replacement of the meter including associated components, Meter size: 50 mm</b>                                    |      |          |           |             |
| 86,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 86,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 86,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 86,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 86,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 86,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>87</b> | <b>Talhado Fishing Enterprise (PTY) LTD:<br/>Replacement of the meter including associated<br/>components, Meter size: 50 mm</b>                        |      |          |           |             |
| 87,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 87,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 87,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 87,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 87,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 87,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>88</b> | <b>P.E Deep Sea Angling Club:<br/>Replacement of the meter including associated<br/>components, Meter size: 50 mm</b>                                   |      |          |           |             |
| 88,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 88,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 88,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 88,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 88,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 88,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>89</b> | <b>Shall South Africa (PTY) LTD:<br/>Replacement of the meter including associated<br/>components, Meter size: 50 mm</b>                                |      |          |           |             |
| 89,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 89,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 89,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 89,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 89,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 89,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>90</b> | <b>Biblia Harbour Mission:<br/>Replacement of the meter including associated<br/>components, Meter size: 50 mm</b>                                      |      |          |           |             |
| 90,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 90,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 90,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 90,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 90,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 90,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>91</b> | <b>Talhado Fishing:<br/>Replacement of the meter including associated<br/>components, Meter size: 50 mm</b>                                             |      |          |           |             |
| 91,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 91,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 91,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 91,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 91,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 91,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>92</b> | <b>TNPA Lighthouse Services:<br/>Replacement of the meter including associated<br/>components, Meter size: 50 mm</b>                                    |      |          |           |             |
| 92,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 92,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 92,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 92,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 92,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 92,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>93</b> | <b>Plot No.1 (Shop 17) Breakeven:<br/>Replacement of the meter including associated components, Meter size: 50 mm</b>                                   |      |          |           |             |
| 93,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 93,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 93,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 93,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 93,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 93,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>94</b> | <b>Zwembesi Farm:<br/>Replacement of the meter including associated components, Meter size: 50 mm</b>                                                   |      |          |           |             |
| 94,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 94,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 94,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 94,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 94,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 94,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>95</b> | <b>BPO:<br/>Replacement of the meter including associated components, Meter size: 50 mm</b>                                                             |      |          |           |             |
| 95,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 95,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 95,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 95,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 95,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 95,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>96</b> | <b>Cargo:<br/>Replacement of the meter including associated components, Meter size: 50 mm</b>                                                           |      |          |           |             |
| 96,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 96,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 96,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 96,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 96,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 96,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>97</b> | <b>Ore Berth Control Tower:<br/>Replacement of the meter including associated components, Meter size: 75 mm</b>                                         |      |          |           |             |
| 97,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 97,2      | Supply and install a new 75 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 97,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 97,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 97,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 97,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>98</b> | <b>Eyethu Fishing (PTY) LTD<br/>Replacement of the meter including associated components, Meter size: 75 mm</b>                                         |      |          |           |             |
| 98,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 98,2      | Supply and install a new 75 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 98,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 98,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 98,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 98,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>99</b>  | <b>Siyaloba Fishing Academy:<br/>Replacement of the meter including associated components, Meter size: 75 mm</b>                                        |      |          |           |             |
| 99,1       | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 99,2       | Supply and install a new 75 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 99,3       | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 99,4       | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 99,5       | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 99,6       | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>100</b> | <b>FPT Port Leasing:<br/>Replacement of the meter including associated components, Meter size: 75 mm</b>                                                |      |          |           |             |
| 100,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 100,2      | Supply and install a new 75 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 100,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 100,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 100,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 100,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>101</b> | <b>Technical Manager (Shop 17):<br/>Replacement of the meter including associated components, Meter size: 100 mm</b>                                    |      |          |           |             |
| 101,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 101,2      | Supply and install a new 100 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 101,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 101,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 101,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 101,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>102</b> | <b>Technical Manager:<br/>Replacement of the meter including associated components, Meter size: 100 mm</b>                                              |      |          |           |             |
| 102,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 102,2      | Supply and install a new 100 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 102,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 102,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 102,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 102,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>103</b> | <b>Tipplers:<br/>Replacement of the meter including associated components, Meter size: 100 mm</b>                                                       |      |          |           |             |
| 103,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 103,2      | Supply and install a new 100 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 103,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 103,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 103,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 103,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>104</b> | <b>Shell South Africa (PTY) LTD:<br/>Replacement of the meter including associated components, Meter size: 100 mm</b>                                   |      |          |           |             |
| 104,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 104,2      | Supply and install a new 100 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 104,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 104,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 104,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 104,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>105</b> | <b>Talhado Fishing Enterprise (PTY) LTD:<br/>Replacement of the meter including associated<br/>components, Meter size: 100 mm</b>                       |      |          |           |             |
| 105,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 105,2      | Supply and install a new 100 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 105,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 105,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 105,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 105,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>106</b> | <b>Oil Sites main Supply:<br/>Replacement of the meter including associated<br/>components, Meter size: 150 mm</b>                                      |      |          |           |             |
| 106,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 106,2      | Supply and install a new 150 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 106,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 106,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 106,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 106,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>107</b> | <b>Baakens Main Supply:<br/>Replacement of the meter including associated<br/>components, Meter size: 150 mm</b>                                        |      |          |           |             |
| 107,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 107,2      | Supply and install a new 150 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 107,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 107,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 107,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 107,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                                                                                                                                     | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                                                                                                                          |      |          |           |             |
| <b>108</b> | <b>Jetty Main Supply:<br/>Replacement of the meter including associated components, Meter size: 150 mm</b>                                                                                                                                                      |      |          |           |             |
| 108,1      | Decommission and remove the existing water meter.                                                                                                                                                                                                               | No.  | 1        |           |             |
| 108,2      | Supply and install a new 150 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.                                                                                                                    | No.  | 1        |           |             |
| 108,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                                                                                         | No.  | 1        |           |             |
| 108,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                                                                                                    | No.  | 1        |           |             |
| 108,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                                                                                           | No.  | 1        |           |             |
| 108,6      | Test and commission the installation                                                                                                                                                                                                                            | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD TO SUMMARY PE</b>                                                                                                                                                                                                                            |      |          |           |             |
|            |                                                                                                                                                                                                                                                                 |      |          |           |             |
| ITEM       | DESCRIPTION                                                                                                                                                                                                                                                     | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|            | <b>SUPPLY AND INSTALLATION OF SMART ELECTRICITY METERS</b>                                                                                                                                                                                                      |      |          |           |             |
| <b>C</b>   | <b>Replacement of Energy Meters in various locations (Three Phase)</b>                                                                                                                                                                                          |      |          |           |             |
|            | Supply, install, configure, test and commission Smart Electricity Meters for measurement of different electrical parameters listed elsewhere in the document including Active energy (kWh/MWh), Reactive energy (kVARh/MVARh), Apparent energy (kVAh/MVAh) etc. |      |          |           |             |
| 1.3        | Decommission and remove the existing Electricity Meters in various locations                                                                                                                                                                                    | No.  | 108      |           |             |
| 1.4        | Re-wire the existing electrical circuits                                                                                                                                                                                                                        |      | 108      |           |             |
| 1.5        | Supply, install and configure a new smart Electricity Meter with all the necessary comms required (communication module, GSM antenna etc.).                                                                                                                     | No.  | 108      |           |             |
| 1.6        | Establish connectivity: Link the meters to the billing server and the new Utilities Management System, Create Accounts and apply the tariffs                                                                                                                    | No.  | 108      |           |             |
| 1.7        | Test and commission the installation.                                                                                                                                                                                                                           | No.  | 108      |           |             |
|            | <b>CARRIED FORWARD TO SUMMARY PE</b>                                                                                                                                                                                                                            |      |          |           |             |
| 41         |                                                                                                                                                                                                                                                                 |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                           | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|-----------|-------------|
| <b>D</b>  | <b>COMMUNICATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |
| 1,1       | Standalone Fibre Network - Design, supply, install and patch 48 pair single mode fibre optic cable (652D)                                                                                                                                                                                                                                                                                                                                             | m              | 12000    |           |             |
| 1,2       | Excavate and backfill where depth is not exceeding 2m deep                                                                                                                                                                                                                                                                                                                                                                                            | m <sup>3</sup> | 2160     |           |             |
| 1,3       | Supply and install 110mm PVC pipe and chamber system for the fibre.                                                                                                                                                                                                                                                                                                                                                                                   | m              | 12000    |           |             |
| 1,4       | Reinstate existing surface and make good                                                                                                                                                                                                                                                                                                                                                                                                              | m <sup>2</sup> | 3600     |           |             |
| 1,5       | Supply and install patch panels fully populated 48 pair with Lucent Connector (LC) patch leads                                                                                                                                                                                                                                                                                                                                                        | No.            | 15       |           |             |
| 1,6       | Supply, install and configure 24 ports managed enterprise network switches including routing and setting up VLANs                                                                                                                                                                                                                                                                                                                                     | No.            | 15       |           |             |
| 1,7       | Supply, install and configure media converters                                                                                                                                                                                                                                                                                                                                                                                                        | No.            | 6        |           |             |
| 1,8       | Supply and install a 9U swing frame cabinet 900mm deep                                                                                                                                                                                                                                                                                                                                                                                                | No.            | 10       |           |             |
| 1,9       | Design and construction of Manholes for fibre                                                                                                                                                                                                                                                                                                                                                                                                         | No.            | 10       |           |             |
| 1,10      | Supply, install and setup the servers                                                                                                                                                                                                                                                                                                                                                                                                                 | No.            | 2        |           |             |
| 1,11      | Splicing of Fibres                                                                                                                                                                                                                                                                                                                                                                                                                                    | No.            | 360      |           |             |
| 1,12      | OTDR Testing (Test and submit line losses)                                                                                                                                                                                                                                                                                                                                                                                                            | No.            | 360      |           |             |
| 1,13      | Supply, install, configure and commission a Firewall for LAN, ensure that old and new services going through the Firewall are reinstated. Setup DMZ and position a management workstation within DMZ                                                                                                                                                                                                                                                  | Sum            | 1        |           |             |
| 1,14      | Supply and install management workstation desktops and link to TNPA corporate network. Setup rules for management workstation and provide dashboards whilst second LAN on machine connects to Transnet Data Network. Management station needs to be on Transnet domain and have relative Transnet Policies applied to it.                                                                                                                             | No.            | 1        |           |             |
| 1,15      | Supply and install the latest Microsoft SQL server (permanent license)                                                                                                                                                                                                                                                                                                                                                                                | No.            | 2        |           |             |
|           | <b>CARRIED FORWARD SUMMARY PE</b>                                                                                                                                                                                                                                                                                                                                                                                                                     |                |          |           |             |
| <b>28</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |          |           |             |
| ITEM      | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                           | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
| <b>E</b>  | <b>PROCUREMENT AND SUPPLY OF SPARES</b>                                                                                                                                                                                                                                                                                                                                                                                                               |                |          |           |             |
| 1,1       | Smart automatic water meter reading devices                                                                                                                                                                                                                                                                                                                                                                                                           | No.            | 12       |           |             |
| 1,2       | Smart automatic energy meter reading devices                                                                                                                                                                                                                                                                                                                                                                                                          | No.            | 11       |           |             |
| 1,3       | Supply hand held automatic meter reading device (water & energy)                                                                                                                                                                                                                                                                                                                                                                                      | No.            | 2        |           |             |
|           | <b>CARRIED FORWARD SUMMARY PE</b>                                                                                                                                                                                                                                                                                                                                                                                                                     |                |          |           |             |
| <b>27</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |          |           |             |
| ITEM      | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                           | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
| <b>F</b>  | <b>AUTOMATIC METER READING (AMR) SYSTEM AND SOFTWARE INTEGRATION</b>                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |
|           | <b>Metering gateways</b>                                                                                                                                                                                                                                                                                                                                                                                                                              |                |          |           |             |
| 1,1       | Supply, installation, configure and integrate the metering gateways onto the LAN and utilities management system for uploading water meter data.                                                                                                                                                                                                                                                                                                      | No.            | 5        |           |             |
| 1,2       | <b>new Utilities Management System</b><br>Development, Programming and Software integration into the billing server, tariff setup, designing billing template and setting up billing accounts on billing server. Configure the server to send an Alert (SMS) to TNPA for abnormalities. Including linking all Port meters to new utilities management system. Provide license package. Develop an API and link it to the back end of IPMS and CAP ERP | Sum            | 1        |           |             |
| 1,3       | Mapping the meters onto the Geographic Information System (GIS) showing the exact installation point, opening meter reading and the picture of the installation.                                                                                                                                                                                                                                                                                      | Sum            | 1        |           |             |
| 1,4       | Testing and commissioning of the software side both individual                                                                                                                                                                                                                                                                                                                                                                                        | Sum            | 1        |           |             |
| 1,5       | AMR Training for End Users                                                                                                                                                                                                                                                                                                                                                                                                                            | Sum            | 1        |           |             |
|           | <b>CARRIED FORWARD SUMMARY PE</b>                                                                                                                                                                                                                                                                                                                                                                                                                     |                |          |           |             |

| PORT OF PORT ELIZABETH                 |                                                                         |             |
|----------------------------------------|-------------------------------------------------------------------------|-------------|
|                                        | DESCRIPTION                                                             | AMOUNT<br>R |
|                                        | PORT OF PORT ELIZABETH                                                  |             |
| A                                      | PRELIMINARIES AND GENERALS                                              |             |
| B                                      | SUPPLY AND INSTALLATION OF SMART AUTOMATIC WATER METER READING DEVICES  |             |
| C                                      | SUPPLY AND INSTALLATION OF SMART AUTOMATIC ENERGY METER READING DEVICES |             |
| D                                      | COMMUNICATION                                                           |             |
| E                                      | PROCUREMENT AND SUPPLY OF SPARES                                        |             |
| F                                      | AUTOMATIC METER READING (AMR) SYSTEM AND SOFTWARE INTEGRATION           |             |
| TOTAL CARRIED FORWARD TO SUMMARY PAGE: |                                                                         |             |

| PRELIMINARY AND GENERAL |                                                                                                                                                                                                                                                                                                                                                  |      |          |           |             |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
| ITEM                    | DESCRIPTION                                                                                                                                                                                                                                                                                                                                      | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|                         | <b>PORT OF MOSSEL BAY</b>                                                                                                                                                                                                                                                                                                                        |      |          |           |             |
|                         | <u>PREAMBLES</u>                                                                                                                                                                                                                                                                                                                                 |      |          |           |             |
|                         | Fixed preliminary items will be valued and paid on a proven cost basis up to the total value<br><br>The tenderer is expected to understand the site, restrictions, and scope of work and price only the relevant items within the Preliminaries. All items priced will be assessed in relevance to the contract prior to any payments being made |      |          |           |             |
| <b>A</b>                | <b>FIXED-CHARGE ITEMS</b>                                                                                                                                                                                                                                                                                                                        |      |          |           |             |
|                         | <u>Contractual Requirements</u>                                                                                                                                                                                                                                                                                                                  |      |          |           |             |
| 1.1                     | Contractual Requirements: Allow for all contractual obligations in accordance with the NEC3 Engineering and Construction Contract (ECC), including the provision and maintenance of all required performance securities, guarantees, insurances, bonds, warranties, and statutory compliance for the full duration of the Contract.              | sum  | 1        |           |             |
|                         | <b>Establishment of Facilities on Site</b>                                                                                                                                                                                                                                                                                                       |      |          |           |             |
|                         | <b>Facilities for the Contractor</b>                                                                                                                                                                                                                                                                                                             |      |          |           |             |
| 1.2                     | Offices and storage sheds                                                                                                                                                                                                                                                                                                                        | sum  | 1        |           |             |
| 1.3                     | Ablution and latrine facilities                                                                                                                                                                                                                                                                                                                  | sum  | 1        |           |             |
| 1.4                     | Tools and equipment                                                                                                                                                                                                                                                                                                                              | sum  | 1        |           |             |
| 1.5                     | Water supplies, electric power and communications                                                                                                                                                                                                                                                                                                | sum  | 1        |           |             |
| 1.6                     | Dealing with water                                                                                                                                                                                                                                                                                                                               | sum  | 1        |           |             |
| 1.7                     | Access                                                                                                                                                                                                                                                                                                                                           | sum  | 1        |           |             |
| 1.8                     | Plant                                                                                                                                                                                                                                                                                                                                            | sum  | 1        |           |             |
|                         | <b>Other Fixed-charge Obligations:</b>                                                                                                                                                                                                                                                                                                           |      |          |           |             |
| 1.9                     | Survey, setting out and preparation of as-built drawings                                                                                                                                                                                                                                                                                         | sum  | 1        |           |             |
| 1.10                    | Health and Safety Compliance                                                                                                                                                                                                                                                                                                                     | sum  | 1        |           |             |
| 1.11                    | Environmental management                                                                                                                                                                                                                                                                                                                         | sum  | 1        |           |             |
|                         | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                                                                                                                           |      |          |           |             |

| PRELIMINARY AND GENERAL |                                                                                  |       |          |           |             |
|-------------------------|----------------------------------------------------------------------------------|-------|----------|-----------|-------------|
| ITEM                    | DESCRIPTION                                                                      | UNIT  | QUANTITY | RATE<br>R | AMOUNT<br>R |
|                         | <b>BROUGHT FORWARD</b>                                                           |       |          |           |             |
| 1.12                    | Security                                                                         | sum   | 1        |           |             |
| 1.13                    | Removal of Site Establishment                                                    | sum   | 1        |           |             |
| 1.14                    | Plant                                                                            | sum   | 1        |           |             |
| <b>2</b>                | <b>TIME-RELATED ITEMS</b>                                                        |       |          |           |             |
|                         | Operation and maintenance of facilities on the Site for duration of construction |       |          |           |             |
|                         | <b>Facilities for the Engineer</b>                                               |       |          |           |             |
| 2.1                     | Survey assistants and materials                                                  | Month | 11       |           |             |
|                         | <b>Facilities for the Contractor</b>                                             |       |          |           |             |
| 2.2                     | Offices and storage sheds                                                        | Month | 11       |           |             |
| 2.3                     | Ablution and latrine facilities                                                  | Month | 11       |           |             |
| 2.4                     | Tools and equipment                                                              | Month | 11       |           |             |
| 2.5                     | Water supplies, electric power and communications                                | Month | 11       |           |             |
| 2.6                     | Dealing with water (Sub-clause 5.5)                                              | Month | 11       |           |             |
| 2.7                     | Access (Sub-clause 5.8)                                                          | Month | 11       |           |             |
| 2.8                     | Plant                                                                            | Month | 11       |           |             |
|                         | <b>Supervision</b>                                                               |       |          |           |             |
| 2.9                     | Supervision for duration of construction                                         | Month | 11       |           |             |
|                         | <b>Other time-related obligations</b>                                            |       |          |           |             |
| 2.10                    | Compliance Occupational Health and Safety Act and Construction Regulations       | Month | 11       |           |             |
| 2.11                    | Compliance to Environmental Management Plan                                      | Month | 11       |           |             |
|                         | <b>CARRIED FORWARD TO SUMMARY</b>                                                |       |          |           |             |

| ITEM     | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                             | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|-----------|-------------|
|          | <b>PORT OF MOSSEL BAY</b>                                                                                                                                                                                                                                                                                                                                                                                               |                |          |           |             |
| <b>B</b> | <b>SUPPLY AND INSTALLATION OF SMART METERS</b>                                                                                                                                                                                                                                                                                                                                                                          |                |          |           |             |
| 1.1      | Investigations and site assessment (Refer to WI Clauses 4.3)                                                                                                                                                                                                                                                                                                                                                            | sum            | 1        |           |             |
| 1.2      | Survey and Ground-Penetrating Radar (GPR) Scans on the route for any potential underground services                                                                                                                                                                                                                                                                                                                     | m <sup>2</sup> | 31250    |           |             |
|          | <b>SITE CLEARANCE, SITEWORKS, ETC.</b>                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |
|          | <b>Site Clearance</b>                                                                                                                                                                                                                                                                                                                                                                                                   |                |          |           |             |
| 1.3      | Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth                                                                                                                                                                                                                                                                                                      | m <sup>2</sup> | 2500     |           |             |
|          | <b>Earthworks</b>                                                                                                                                                                                                                                                                                                                                                                                                       |                |          |           |             |
| 1.4      | Excavate and backfill where depth is not exceeding 2m deep (600mm x 600mm x 600mm)                                                                                                                                                                                                                                                                                                                                      | m <sup>3</sup> | 53       |           |             |
|          | <b>SUPPLY AND INSTALLATION OF SMART WATER METERS</b>                                                                                                                                                                                                                                                                                                                                                                    |                |          |           |             |
|          | <b>Below Ground Installation</b><br>Supply, install, test and commission smart water meters and shall be configured for measurement of water consumption (KL), alarm notification for high flow set points and trigger night flow analysis                                                                                                                                                                              |                |          |           |             |
|          | <b>METER No. 01 Installation of New meter including associated components</b><br><b>Meter size: 160mm, existing pipe material is u-PVC</b>                                                                                                                                                                                                                                                                              |                |          |           |             |
| 2,1      | Proof trench and verify the pipe material, depth and pipe size before procuring any material for the installation.                                                                                                                                                                                                                                                                                                      | m <sup>3</sup> | 5        |           |             |
| 2,2      | Cutting off approximately 4.5m of pipe including fitting of flanges on both ends of exposed pipe as per drawings and specifications                                                                                                                                                                                                                                                                                     | m              | 4,5      |           |             |
| 2,3      | Construct a new water meter manhole with overall size 2.66m x 1.66m and varying depths not exceeding 2.53m deep including all necessary additional excavations, risk of collapse, blinding, manhole base, stone bedding, 230mm brickwork, backfilling, concrete cover slab, including breaking openings on both ends for new pipe and cart away of surplus material all in accordance with drawings and specifications. | No.            | 1        |           |             |
| 2,4      | Supply and install 160mm diameter steel pipes each approximately 1.4m in length, flanged on both ends and fitted on either end of manhole to existing flanged asbestos pipes and in new manholes including sealing off ends of manholes, support/thrust blocks, etc., gaskets, bolts, sealants etc.                                                                                                                     | No.            | 2        |           |             |
| 2,5      | Supply and install 160mm dia. spool pieces approximately 250mm in length flanged on both ends and fitted to meter, strainer & valve including all necessary, gaskets, bolts, sealants etc.                                                                                                                                                                                                                              | No.            | 2        |           |             |
| 2,6      | Supply and install a 160mm swing check valve flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 2,7      | Supply and install a 160mm In-line strainer, flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 2,8      | Supply and install a 160mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                       | No.            | 1        |           |             |
| 2,9      | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                                                                                                                                                                                                                                    | m              | 8        |           |             |
| 2.10     | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. Link the meter on both the billing server and the new Utilites Management System Link the meter on both the billing server and the new Utilites Management System                                                                                               | No.            | 1        |           |             |
|          | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |

| ITEM | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                             | UNIT           | QUANTITY | RATE<br>R |  |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|-----------|--|
|      | <b>BROUGHT FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |  |
|      | <b>METER No. 02 Installation of New meter including associated components<br/>Meter size: 160mm, existing pipe material is u-PVC</b>                                                                                                                                                                                                                                                                                    |                |          |           |  |
| 3,1  | Proof trench and verify the pipe material, depth and pipe size before procuring any material for the installation.                                                                                                                                                                                                                                                                                                      | m <sup>3</sup> | 5        |           |  |
| 3,2  | Cutting off approximately 4.5m of pipe including fitting of flanges on both ends of exposed pipe as per drawings and specifications                                                                                                                                                                                                                                                                                     | m              | 4,5      |           |  |
| 3,3  | Construct a new water meter manhole with overall size 2.66m x 1.66m and varying depths not exceeding 2.53m deep including all necessary additional excavations, risk of collapse, blinding, manhole base, stone bedding, 230mm brickwork, backfilling, concrete cover slab, including breaking openings on both ends for new pipe and cart away of surplus material all in accordance with drawings and specifications. | No.            | 1        |           |  |
| 3,4  | Supply and install 160mm diameter steel pipes each approximately 1.4m in length, flanged on both ends and fitted on either end of manhole to existing flanged asbestos pipes and in new manholes including sealing off ends of manholes, support/thrust blocks, etc., gaskets, bolts, sealants etc.                                                                                                                     | No.            | 2        |           |  |
| 3,5  | Supply and install 160mm dia. spool pieces approximately 250mm in length flanged on both ends and fitted to meter, strainer & valve including all necessary, gaskets, bolts, sealants etc.                                                                                                                                                                                                                              | No.            | 2        |           |  |
| 3,6  | Supply and install a 160mm swing check valve flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |  |
| 3,7  | Supply and install a 160mm In-line strainer, flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |  |
| 3,8  | Supply and install a 160mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                       | No.            | 1        |           |  |
| 3,9  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                                                                                                                                                                                                                                    | m              | 8        |           |  |
| 3.10 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. Link the meter on both the billing server and the new Utilites Management System Link the meter on both the billing server and the new Utilites Management System                                                                                               | No.            | 1        |           |  |
|      | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |  |
| 8    |                                                                                                                                                                                                                                                                                                                                                                                                                         |                |          |           |  |

| ITEM     | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|          | <b>BROUGHT FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |           |             |
|          | <b>METER No. 03 Installation of New meter including associated components<br/>Meter size: 160mm, existing pipe material is u-PVC</b>                                                                                                                                                                                                                                                                                    |      |          |           |             |
| 4,1      | Proof trench and verify the pipe material, depth and pipe size before procuring any material for the installation.                                                                                                                                                                                                                                                                                                      | m3   | 5        |           |             |
| 4,2      | Cutting off approximately 4.5m of pipe including fitting of flanges on both ends of exposed pipe as per drawings and specifications                                                                                                                                                                                                                                                                                     | m    | 4,5      |           |             |
| 4,3      | Construct a new water meter manhole with overall size 2.66m x 1.66m and varying depths not exceeding 2.53m deep including all necessary additional excavations, risk of collapse, blinding, manhole base, stone bedding, 230mm brickwork, backfilling, concrete cover slab, including breaking openings on both ends for new pipe and cart away of surplus material all in accordance with drawings and specifications. | No.  | 1        |           |             |
| 4,4      | Supply and install 160mm diameter steel pipes each approximately 1.4m in length, flanged on both ends and fitted on either end of manhole to existing flanged asbestos pipes and in new manholes including sealing off ends of manholes, support/thrust blocks, etc., gaskets, bolts, sealants etc.                                                                                                                     | No.  | 2        |           |             |
| 4,5      | Supply and install 160mm dia. spool pieces approximately 250mm in length flanged on both ends and fitted to meter, strainer & valve including all necessary, gaskets, bolts, sealants etc.                                                                                                                                                                                                                              | No.  | 2        |           |             |
| 4,6      | Supply and install a 160mm swing check valve flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.  | 1        |           |             |
| 4,7      | Supply and install a 160mm In-line strainer, flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.  | 1        |           |             |
| 4,8      | Supply and install a 160mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                       | No.  | 1        |           |             |
| 4,9      | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                                                                                                                                                                                                                                    | m    | 8        |           |             |
| 4.10     | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. Link the meter on both the billing server and the new Utilites Management System Link the meter on both the billing server and the new Utilites Management System                                                                                               | No.  | 1        |           |             |
|          | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |           |             |
| <b>9</b> |                                                                                                                                                                                                                                                                                                                                                                                                                         |      |          |           |             |

| ITEM | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                             | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|-----------|-------------|
|      | <b>BROUGHT FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |
|      | <b>METER No. 04 Installation of New meter including associated components<br/>Meter size: 160mm, existing pipe material is u-PVC</b>                                                                                                                                                                                                                                                                                    |                |          |           |             |
| 5,1  | Proof trench and verify the pipe material, depth and pipe size before procuring any material for the installation.                                                                                                                                                                                                                                                                                                      | m <sup>3</sup> | 5        |           |             |
| 5,2  | Cutting off approximately 4.5m of pipe including fitting of flanges on both ends of exposed pipe as per drawings and specifications                                                                                                                                                                                                                                                                                     | m              | 4,5      |           |             |
| 5,3  | Construct a new water meter manhole with overall size 2.66m x 1.66m and varying depths not exceeding 2.53m deep including all necessary additional excavations, risk of collapse, blinding, manhole base, stone bedding, 230mm brickwork, backfilling, concrete cover slab, including breaking openings on both ends for new pipe and cart away of surplus material all in accordance with drawings and specifications. | No.            | 1        |           |             |
| 5,4  | Supply and install 160mm diameter steel pipes each approximately 1.4m in length, flanged on both ends and fitted on either end of manhole to existing flanged asbestos pipes and in new manholes including sealing off ends of manholes, support/thrust blocks, etc., gaskets, bolts, sealants etc.                                                                                                                     | No.            | 2        |           |             |
| 5,5  | Supply and install 160mm dia. spool pieces approximately 250mm in length flanged on both ends and fitted to meter, strainer & valve including all necessary, gaskets, bolts, sealants etc.                                                                                                                                                                                                                              | No.            | 2        |           |             |
| 5,6  | Supply and install a 160mm swing check valve flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 5,7  | Supply and install a 160mm In-line strainer, flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 5,8  | Supply and install a 160mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                       | No.            | 1        |           |             |
| 5,9  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                                                                                                                                                                                                                                    | m              | 8        |           |             |
| 5.10 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. Link the meter on both the billing server and the new Utilites Management System Link the meter on both the billing server and the new Utilites Management System                                                                                               | No.            | 1        |           |             |
|      | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |

| ITEM | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                             | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|-----------|-------------|
|      | <b>BROUGHT FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |
|      | <b>METER No. 05 Installation of New meter including associated components<br/>Meter size: 160mm, existing pipe material is u-PVC</b>                                                                                                                                                                                                                                                                                    |                |          |           |             |
| 6,1  | Proof trench and verify the pipe material, depth and pipe size before procuring any material for the installation.                                                                                                                                                                                                                                                                                                      | m <sup>3</sup> | 5        |           |             |
| 6,2  | Cutting off approximately 4.5m of pipe including fitting of flanges on both ends of exposed pipe as per drawings and specifications                                                                                                                                                                                                                                                                                     | m              | 4,5      |           |             |
| 6,3  | Construct a new water meter manhole with overall size 2.66m x 1.66m and varying depths not exceeding 2.53m deep including all necessary additional excavations, risk of collapse, blinding, manhole base, stone bedding, 230mm brickwork, backfilling, concrete cover slab, including breaking openings on both ends for new pipe and cart away of surplus material all in accordance with drawings and specifications. | No.            | 1        |           |             |
| 6,4  | Supply and install 160mm diameter steel pipes each approximately 1.4m in length, flanged on both ends and fitted on either end of manhole to existing flanged asbestos pipes and in new manholes including sealing off ends of manholes, support/thrust blocks, etc., gaskets, bolts, sealants etc.                                                                                                                     | No.            | 2        |           |             |
| 6,5  | Supply and install 160mm dia. spool pieces approximately 250mm in length flanged on both ends and fitted to meter, strainer & valve including all necessary, gaskets, bolts, sealants etc.                                                                                                                                                                                                                              | No.            | 2        |           |             |
| 6,6  | Supply and install a 160mm swing check valve flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 6,7  | Supply and install a 160mm In-line strainer, flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 6,8  | Supply and install a 160mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                       | No.            | 1        |           |             |
| 6,9  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                                                                                                                                                                                                                                    | m              | 8        |           |             |
| 6.10 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. Link the meter on both the billing server and the new Utilites Management System Link the meter on both the billing server and the new Utilites Management System                                                                                               | No.            | 1        |           |             |
|      | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |
|      |                                                                                                                                                                                                                                                                                                                                                                                                                         |                |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                             | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |
|           | <b>METER No. 06 Installation of New meter including associated components<br/>Meter size: 160mm, existing pipe material is u-PVC</b>                                                                                                                                                                                                                                                                                    |                |          |           |             |
| 7,1       | Proof trench and verify the pipe material, depth and pipe size before procuring any material for the installation.                                                                                                                                                                                                                                                                                                      | m <sup>3</sup> | 5        |           |             |
| 7,2       | Cutting off approximately 4.5m of pipe including fitting of flanges on both ends of exposed pipe as per drawings and specifications                                                                                                                                                                                                                                                                                     | m              | 4,5      |           |             |
| 7,3       | Construct a new water meter manhole with overall size 2.66m x 1.66m and varying depths not exceeding 2.53m deep including all necessary additional excavations, risk of collapse, blinding, manhole base, stone bedding, 230mm brickwork, backfilling, concrete cover slab, including breaking openings on both ends for new pipe and cart away of surplus material all in accordance with drawings and specifications. | No.            | 1        |           |             |
| 7,4       | Supply and install 160mm diameter steel pipes each approximately 1.4m in length, flanged on both ends and fitted on either end of manhole to existing flanged asbestos pipes and in new manholes including sealing off ends of manholes, support/thrust blocks, etc., gaskets, bolts, sealants etc.                                                                                                                     | No.            | 2        |           |             |
| 7,5       | Supply and install 160mm dia. spool pieces approximately 250mm in length flanged on both ends and fitted to meter, strainer & valve including all necessary, gaskets, bolts, sealants etc.                                                                                                                                                                                                                              | No.            | 2        |           |             |
| 7,6       | Supply and install a 160mm swing check valve flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 7,7       | Supply and install a 160mm In-line strainer, flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 7,8       | Supply and install a 160mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                       | No.            | 1        |           |             |
| 7,9       | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                                                                                                                                                                                                                                    | m              | 8        |           |             |
| 7.10      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. Link the meter on both the billing server and the new Utilites Management System Link the meter on both the billing server and the new Utilites Management System                                                                                               | No.            | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |
| <b>12</b> |                                                                                                                                                                                                                                                                                                                                                                                                                         |                |          |           |             |

| ITEM | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                             | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|-----------|-------------|
|      | <b>BROUGHT FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |
|      | <b>METER No. 07 Installation of New meter including associated components<br/>Meter size: 160mm, existing pipe material is u-PVC</b>                                                                                                                                                                                                                                                                                    |                |          |           |             |
| 8,1  | Proof trench and verify the pipe material, depth and pipe size before procuring any material for the installation.                                                                                                                                                                                                                                                                                                      | m <sup>3</sup> | 5        |           |             |
| 8,2  | Cutting off approximately 4.5m of pipe including fitting of flanges on both ends of exposed pipe as per drawings and specifications                                                                                                                                                                                                                                                                                     | m              | 4,5      |           |             |
| 8,3  | Construct a new water meter manhole with overall size 2.66m x 1.66m and varying depths not exceeding 2.53m deep including all necessary additional excavations, risk of collapse, blinding, manhole base, stone bedding, 230mm brickwork, backfilling, concrete cover slab, including breaking openings on both ends for new pipe and cart away of surplus material all in accordance with drawings and specifications. | No.            | 1        |           |             |
| 8,4  | Supply and install 160mm diameter steel pipes each approximately 1.4m in length, flanged on both ends and fitted on either end of manhole to existing flanged asbestos pipes and in new manholes including sealing off ends of manholes, support/thrust blocks, etc., gaskets, bolts, sealants etc.                                                                                                                     | No.            | 2        |           |             |
| 8,5  | Supply and install 160mm dia. spool pieces approximately 250mm in length flanged on both ends and fitted to meter, strainer & valve including all necessary, gaskets, bolts, sealants etc.                                                                                                                                                                                                                              | No.            | 2        |           |             |
| 8,6  | Supply and install a 160mm swing check valve flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 8,7  | Supply and install a 160mm In-line strainer, flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 8,8  | Supply and install a 160mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                       | No.            | 1        |           |             |
| 8,9  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                                                                                                                                                                                                                                    | m              | 8        |           |             |
| 8.10 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. Link the meter on both the billing server and the new Utilites Management System Link the meter on both the billing server and the new Utilites Management System                                                                                               | No.            | 1        |           |             |
|      | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |

| ITEM  | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                             | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|-----------|-------------|
|       | <b>BROUGHT FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |
|       | <b>METER No. 09 Installation of New meter including associated components</b><br><b>Meter size: 160mm, existing pipe material is u-PVC</b>                                                                                                                                                                                                                                                                              |                |          |           |             |
| 10.1  | Proof trench and verify the pipe material, depth and pipe size before procuring any material for the installation.                                                                                                                                                                                                                                                                                                      | m <sup>3</sup> | 5        |           |             |
| 10.2  | Cutting off approximately 4.5m of pipe including fitting of flanges on both ends of exposed pipe as per drawings and specifications                                                                                                                                                                                                                                                                                     | m              | 4,5      |           |             |
| 10.3  | Construct a new water meter manhole with overall size 2.66m x 1.66m and varying depths not exceeding 2.53m deep including all necessary additional excavations, risk of collapse, blinding, manhole base, stone bedding, 230mm brickwork, backfilling, concrete cover slab, including breaking openings on both ends for new pipe and cart away of surplus material all in accordance with drawings and specifications. | No.            | 1        |           |             |
| 10.4  | Supply and install 160mm diameter steel pipes each approximately 1.4m in length, flanged on both ends and fitted on either end of manhole to existing flanged asbestos pipes and in new manholes including sealing off ends of manholes, support/thrust blocks, etc., gaskets, bolts, sealants etc.                                                                                                                     | No.            | 2        |           |             |
| 10.5  | Supply and install 160mm dia. spool pieces approximately 250mm in length flanged on both ends and fitted to meter, strainer & valve including all necessary, gaskets, bolts, sealants etc.                                                                                                                                                                                                                              | No.            | 2        |           |             |
| 10.6  | Supply and install a 160mm swing check valve flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 10.7  | Supply and install a 160mm In-line strainer, flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 10.8  | Supply and install a 160mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                       | No.            | 1        |           |             |
| 10.9  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                                                                                                                                                                                                                                    | m              | 8        |           |             |
| 10.10 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. Link the meter on both the billing server and the new Utilites Management System Link the meter on both the billing server and the new Utilites Management System                                                                                               | No.            | 1        |           |             |
|       | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |

| ITEM  | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                             | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|-----------|-------------|
|       | <b>BROUGHT FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |
|       | <b>METER No. 10 Installation of New meter including associated components<br/>Meter size: 160mm, existing pipe material is u-PVC</b>                                                                                                                                                                                                                                                                                    |                |          |           |             |
| 11,1  | Proof trench and verify the pipe material, depth and pipe size before procuring any material for the installation.                                                                                                                                                                                                                                                                                                      | m <sup>3</sup> | 5        |           |             |
| 11,2  | Cutting off approximately 4.5m of pipe including fitting of flanges on both ends of exposed pipe as per drawings and specifications                                                                                                                                                                                                                                                                                     | m              | 4,5      |           |             |
| 11,3  | Construct a new water meter manhole with overall size 2.66m x 1.66m and varying depths not exceeding 2.53m deep including all necessary additional excavations, risk of collapse, blinding, manhole base, stone bedding, 230mm brickwork, backfilling, concrete cover slab, including breaking openings on both ends for new pipe and cart away of surplus material all in accordance with drawings and specifications. | No.            | 1        |           |             |
| 11,4  | Supply and install 160mm diameter steel pipes each approximately 1.4m in length, flanged on both ends and fitted on either end of manhole to existing flanged asbestos pipes and in new manholes including sealing off ends of manholes, support/thrust blocks, etc., gaskets, bolts, sealants etc.                                                                                                                     | No.            | 2        |           |             |
| 11,5  | Supply and install 160mm dia. spool pieces approximately 250mm in length flanged on both ends and fitted to meter, strainer & valve including all necessary, gaskets, bolts, sealants etc.                                                                                                                                                                                                                              | No.            | 2        |           |             |
| 11,6  | Supply and install a 160mm swing check valve flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 11,7  | Supply and install a 160mm In-line strainer, flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 11,8  | Supply and install a 160mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                       | No.            | 1        |           |             |
| 11,9  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                                                                                                                                                                                                                                    | m              | 8        |           |             |
| 11.10 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. Link the meter on both the billing server and the new Utilites Management System Link the meter on both the billing server and the new Utilites Management System                                                                                               | No.            | 1        |           |             |
|       | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |

| ITEM  | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                             | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|-----------|-------------|
|       | <b>BROUGHT FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |
|       | <b>METER No. 11 Installation of New meter including associated components<br/>Meter size: 160mm, existing pipe material is u-PVC</b>                                                                                                                                                                                                                                                                                    |                |          |           |             |
| 12,1  | Proof trench and verify the pipe material, depth and pipe size before procuring any material for the installation.                                                                                                                                                                                                                                                                                                      | m <sup>3</sup> | 5        |           |             |
| 12,2  | Cutting off approximately 4.5m of pipe including fitting of flanges on both ends of exposed pipe as per drawings and specifications                                                                                                                                                                                                                                                                                     | m              | 4,5      |           |             |
| 12,3  | Construct a new water meter manhole with overall size 2.66m x 1.66m and varying depths not exceeding 2.53m deep including all necessary additional excavations, risk of collapse, blinding, manhole base, stone bedding, 230mm brickwork, backfilling, concrete cover slab, including breaking openings on both ends for new pipe and cart away of surplus material all in accordance with drawings and specifications. | No.            | 1        |           |             |
| 12,4  | Supply and install 160mm diameter steel pipes each approximately 1.4m in length, flanged on both ends and fitted on either end of manhole to existing flanged asbestos pipes and in new manholes including sealing off ends of manholes, support/thrust blocks, etc., gaskets, bolts, sealants etc.                                                                                                                     | No.            | 2        |           |             |
| 12,5  | Supply and install 160mm dia. spool pieces approximately 250mm in length flanged on both ends and fitted to meter, strainer & valve including all necessary, gaskets, bolts, sealants etc.                                                                                                                                                                                                                              | No.            | 2        |           |             |
| 12,6  | Supply and install a 160mm swing check valve flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 12,7  | Supply and install a 160mm In-line strainer, flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 12,8  | Supply and install a 160mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                       | No.            | 1        |           |             |
| 12,9  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                                                                                                                                                                                                                                    | m              | 8        |           |             |
| 12.10 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. Link the meter on both the billing server and the new Utilites Management System Link the meter on both the billing server and the new Utilites Management System                                                                                               | No.            | 1        |           |             |
|       | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |

| ITEM  | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                             | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|-----------|-------------|
|       | <b>BROUGHT FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |
|       | <b>METER No. 12 Installation of New meter including associated components<br/>Meter size: 160mm, existing pipe material is u-PVC</b>                                                                                                                                                                                                                                                                                    |                |          |           |             |
| 13,1  | Proof trench and verify the pipe material, depth and pipe size before procuring any material for the installation.                                                                                                                                                                                                                                                                                                      | m <sup>3</sup> | 5        |           |             |
| 13,2  | Cutting off approximately 4.5m of pipe including fitting of flanges on both ends of exposed pipe as per drawings and specifications                                                                                                                                                                                                                                                                                     | m              | 4,5      |           |             |
| 13,3  | Construct a new water meter manhole with overall size 2.66m x 1.66m and varying depths not exceeding 2.53m deep including all necessary additional excavations, risk of collapse, blinding, manhole base, stone bedding, 230mm brickwork, backfilling, concrete cover slab, including breaking openings on both ends for new pipe and cart away of surplus material all in accordance with drawings and specifications. | No.            | 1        |           |             |
| 13,4  | Supply and install 160mm diameter steel pipes each approximately 1.4m in length, flanged on both ends and fitted on either end of manhole to existing flanged asbestos pipes and in new manholes including sealing off ends of manholes, support/thrust blocks, etc., gaskets, bolts, sealants etc.                                                                                                                     | No.            | 2        |           |             |
| 13,5  | Supply and install 160mm dia. spool pieces approximately 250mm in length flanged on both ends and fitted to meter, strainer & valve including all necessary, gaskets, bolts, sealants etc.                                                                                                                                                                                                                              | No.            | 2        |           |             |
| 13,6  | Supply and install a 160mm swing check valve flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 13,7  | Supply and install a 160mm In-line strainer, flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 13,8  | Supply and install a 160mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                       | No.            | 1        |           |             |
| 13,9  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                                                                                                                                                                                                                                    | m              | 8        |           |             |
| 13.10 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. Link the meter on both the billing server and the new Utilites Management System Link the meter on both the billing server and the new Utilites Management System                                                                                               | No.            | 1        |           |             |
|       | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |

| ITEM  | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                             | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|-----------|-------------|
|       | <b>BROUGHT FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |
|       | <b>METER NO. 13 Installation of New meter including associated components<br/>Meter size: 160mm, existing pipe material is u-PVC</b>                                                                                                                                                                                                                                                                                    |                |          |           |             |
| 14,1  | Proof trench and verify the pipe material, depth and pipe size before procuring any material for the installation.                                                                                                                                                                                                                                                                                                      | m <sup>3</sup> | 5        |           |             |
| 14,2  | Cutting off approximately 4.5m of pipe including fitting of flanges on both ends of exposed pipe as per drawings and specifications                                                                                                                                                                                                                                                                                     | m              | 4,5      |           |             |
| 14,3  | Construct a new water meter manhole with overall size 2.66m x 1.66m and varying depths not exceeding 2.53m deep including all necessary additional excavations, risk of collapse, blinding, manhole base, stone bedding, 230mm brickwork, backfilling, concrete cover slab, including breaking openings on both ends for new pipe and cart away of surplus material all in accordance with drawings and specifications. | No.            | 1        |           |             |
| 14,4  | Supply and install 160mm diameter steel pipes each approximately 1.4m in length, flanged on both ends and fitted on either end of manhole to existing flanged asbestos pipes and in new manholes including sealing off ends of manholes, support/thrust blocks, etc., gaskets, bolts, sealants etc.                                                                                                                     | No.            | 2        |           |             |
| 14,5  | Supply and install 160mm dia. spool pieces approximately 250mm in length flanged on both ends and fitted to meter, strainer & valve including all necessary, gaskets, bolts, sealants etc.                                                                                                                                                                                                                              | No.            | 2        |           |             |
| 14,6  | Supply and install a 160mm swing check valve flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 14,7  | Supply and install a 160mm In-line strainer, flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 14,8  | Supply and install a 160mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                       | No.            | 1        |           |             |
| 14,9  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                                                                                                                                                                                                                                    | m              | 8        |           |             |
| 14.10 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. Link the meter on both the billing server and the new Utilites Management System Link the meter on both the billing server and the new Utilites Management System                                                                                               | No.            | 1        |           |             |
|       | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |

| ITEM  | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|       | <b>BROUGHT FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |           |             |
|       | <b>METER No. 14 Installation of New meter including associated components<br/>Meter size: 160mm, existing pipe material is u-PVC</b>                                                                                                                                                                                                                                                                                    |      |          |           |             |
| 15,1  | Proof trench and verify the pipe material, depth and pipe size before procuring any material for the installation.                                                                                                                                                                                                                                                                                                      | m3   | 5        |           |             |
| 15,2  | Cutting off approximately 4.5m of pipe including fitting of flanges on both ends of exposed pipe as per drawings and specifications                                                                                                                                                                                                                                                                                     | m    | 4,5      |           |             |
| 15,3  | Construct a new water meter manhole with overall size 2.66m x 1.66m and varying depths not exceeding 2.53m deep including all necessary additional excavations, risk of collapse, blinding, manhole base, stone bedding, 230mm brickwork, backfilling, concrete cover slab, including breaking openings on both ends for new pipe and cart away of surplus material all in accordance with drawings and specifications. | No.  | 1        |           |             |
| 15,4  | Supply and install 160mm diameter steel pipes each approximately 1.4m in length, flanged on both ends and fitted on either end of manhole to existing flanged asbestos pipes and in new manholes including sealing off ends of manholes, support/thrust blocks, etc., gaskets, bolts, sealants etc.                                                                                                                     | No.  | 2        |           |             |
| 15,5  | Supply and install 160mm dia. spool pieces approximately 250mm in length flanged on both ends and fitted to meter, strainer & valve including all necessary, gaskets, bolts, sealants etc.                                                                                                                                                                                                                              | No.  | 2        |           |             |
| 15,6  | Supply and install a 160mm swing check valve flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.  | 1        |           |             |
| 15,7  | Supply and install a 160mm In-line strainer, flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.  | 1        |           |             |
| 15,8  | Supply and install a 160mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                       | No.  | 1        |           |             |
| 15,9  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                                                                                                                                                                                                                                    | m    | 8        |           |             |
| 15.10 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. Link the meter on both the billing server and the new Utilites Management System Link the meter on both the billing server and the new Utilites Management System                                                                                               | No.  | 1        |           |             |
|       | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |           |             |

| ITEM  | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|       | <b>BROUGHT FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |           |             |
|       | <b>METER No. 15 Installation of New meter including associated components<br/>Meter size: 160mm, existing pipe material is u-PVC</b>                                                                                                                                                                                                                                                                                    |      |          |           |             |
| 16,1  | Proof trench and verify the pipe material, depth and pipe size before procuring any material for the installation.                                                                                                                                                                                                                                                                                                      | m3   | 5        |           |             |
| 16,2  | Cutting off approximately 4.5m of pipe including fitting of flanges on both ends of exposed pipe as per drawings and specifications                                                                                                                                                                                                                                                                                     | m    | 4,5      |           |             |
| 16,3  | Construct a new water meter manhole with overall size 2.66m x 1.66m and varying depths not exceeding 2.53m deep including all necessary additional excavations, risk of collapse, blinding, manhole base, stone bedding, 230mm brickwork, backfilling, concrete cover slab, including breaking openings on both ends for new pipe and cart away of surplus material all in accordance with drawings and specifications. | No.  | 1        |           |             |
| 16,4  | Supply and install 160mm diameter steel pipes each approximately 1.4m in length, flanged on both ends and fitted on either end of manhole to existing flanged asbestos pipes and in new manholes including sealing off ends of manholes, support/thrust blocks, etc., gaskets, bolts, sealants etc.                                                                                                                     | No.  | 2        |           |             |
| 16,5  | Supply and install 160mm dia. spool pieces approximately 250mm in length flanged on both ends and fitted to meter, strainer & valve including all necessary, gaskets, bolts, sealants etc.                                                                                                                                                                                                                              | No.  | 2        |           |             |
| 16,6  | Supply and install a 160mm swing check valve flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.  | 1        |           |             |
| 16,7  | Supply and install a 160mm In-line strainer, flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.  | 1        |           |             |
| 16,8  | Supply and install a 160mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                       | No.  | 1        |           |             |
| 16,9  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                                                                                                                                                                                                                                    | m    | 8        |           |             |
| 16.10 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. Link the meter on both the billing server and the new Utilites Management System Link the meter on both the billing server and the new Utilites Management System                                                                                               | No.  | 1        |           |             |
|       | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |           |             |

| ITEM  | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|       | <b>BROUGHT FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |           |             |
|       | <b>METER No. 16 Installation of New meter including associated components<br/>Meter size: 160mm, existing pipe material is u-PVC</b>                                                                                                                                                                                                                                                                                    |      |          |           |             |
| 17,1  | Proof trench and verify the pipe material, depth and pipe size before procuring any material for the installation.                                                                                                                                                                                                                                                                                                      | m3   | 5        |           |             |
| 17,2  | Cutting off approximately 4.5m of pipe including fitting of flanges on both ends of exposed pipe as per drawings and specifications                                                                                                                                                                                                                                                                                     | m    | 4,5      |           |             |
| 17,3  | Construct a new water meter manhole with overall size 2.66m x 1.66m and varying depths not exceeding 2.53m deep including all necessary additional excavations, risk of collapse, blinding, manhole base, stone bedding, 230mm brickwork, backfilling, concrete cover slab, including breaking openings on both ends for new pipe and cart away of surplus material all in accordance with drawings and specifications. | No.  | 1        |           |             |
| 17,4  | Supply and install 160mm diameter steel pipes each approximately 1.4m in length, flanged on both ends and fitted on either end of manhole to existing flanged asbestos pipes and in new manholes including sealing off ends of manholes, support/thrust blocks, etc., gaskets, bolts, sealants etc.                                                                                                                     | No.  | 2        |           |             |
| 17,5  | Supply and install 160mm dia. spool pieces approximately 250mm in length flanged on both ends and fitted to meter, strainer & valve including all necessary, gaskets, bolts, sealants etc.                                                                                                                                                                                                                              | No.  | 2        |           |             |
| 17,6  | Supply and install a 160mm swing check valve flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.  | 1        |           |             |
| 17,7  | Supply and install a 160mm In-line strainer, flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.  | 1        |           |             |
| 17,8  | Supply and install a 160mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                       | No.  | 1        |           |             |
| 17,9  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                                                                                                                                                                                                                                    | m    | 8        |           |             |
| 17.10 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. Link the meter on both the billing server and the new Utilites Management System Link the meter on both the billing server and the new Utilites Management System                                                                                               | No.  | 1        |           |             |
|       | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |           |             |

| ITEM  | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|       | <b>BROUGHT FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |           |             |
|       | <b>METER No. 17 Installation of New meter including associated components<br/>Meter size: 160mm, existing pipe material is u-PVC</b>                                                                                                                                                                                                                                                                                    |      |          |           |             |
| 18,1  | Proof trench and verify the pipe material, depth and pipe size before procuring any material for the installation.                                                                                                                                                                                                                                                                                                      | m3   | 5        |           |             |
| 18,2  | Cutting off approximately 4.5m of pipe including fitting of flanges on both ends of exposed pipe as per drawings and specifications                                                                                                                                                                                                                                                                                     | m    | 4,5      |           |             |
| 18,3  | Construct a new water meter manhole with overall size 2.66m x 1.66m and varying depths not exceeding 2.53m deep including all necessary additional excavations, risk of collapse, blinding, manhole base, stone bedding, 230mm brickwork, backfilling, concrete cover slab, including breaking openings on both ends for new pipe and cart away of surplus material all in accordance with drawings and specifications. | No.  | 1        |           |             |
| 18,4  | Supply and install 160mm diameter steel pipes each approximately 1.4m in length, flanged on both ends and fitted on either end of manhole to existing flanged asbestos pipes and in new manholes including sealing off ends of manholes, support/thrust blocks, etc., gaskets, bolts, sealants etc.                                                                                                                     | No.  | 2        |           |             |
| 18,5  | Supply and install 160mm dia. spool pieces approximately 250mm in length flanged on both ends and fitted to meter, strainer & valve including all necessary, gaskets, bolts, sealants etc.                                                                                                                                                                                                                              | No.  | 2        |           |             |
| 18,6  | Supply and install a 160mm swing check valve flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.  | 1        |           |             |
| 18,7  | Supply and install a 160mm In-line strainer, flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.  | 1        |           |             |
| 18,8  | Supply and install a 160mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                       | No.  | 1        |           |             |
| 18,9  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                                                                                                                                                                                                                                    | m    | 8        |           |             |
| 18.10 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. Link the meter on both the billing server and the new Utilites Management System Link the meter on both the billing server and the new Utilites Management System                                                                                               | No.  | 1        |           |             |
|       | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |           |             |

| ITEM  | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|       | <b>BROUGHT FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |           |             |
|       | <b>METER No. 18 Installation of New meter including associated components<br/>Meter size: 160mm, existing pipe material is u-PVC</b>                                                                                                                                                                                                                                                                                    |      |          |           |             |
| 19,1  | Proof trench and verify the pipe material, depth and pipe size before procuring any material for the installation.                                                                                                                                                                                                                                                                                                      | m3   | 5        |           |             |
| 19,2  | Cutting off approximately 4.5m of pipe including fitting of flanges on both ends of exposed pipe as per drawings and specifications                                                                                                                                                                                                                                                                                     | m    | 4,5      |           |             |
| 19,3  | Construct a new water meter manhole with overall size 2.66m x 1.66m and varying depths not exceeding 2.53m deep including all necessary additional excavations, risk of collapse, blinding, manhole base, stone bedding, 230mm brickwork, backfilling, concrete cover slab, including breaking openings on both ends for new pipe and cart away of surplus material all in accordance with drawings and specifications. | No.  | 1        |           |             |
| 19,4  | Supply and install 160mm diameter steel pipes each approximately 1.4m in length, flanged on both ends and fitted on either end of manhole to existing flanged asbestos pipes and in new manholes including sealing off ends of manholes, support/thrust blocks, etc., gaskets, bolts, sealants etc.                                                                                                                     | No.  | 2        |           |             |
| 19,5  | Supply and install 160mm dia. spool pieces approximately 250mm in length flanged on both ends and fitted to meter, strainer & valve including all necessary, gaskets, bolts, sealants etc.                                                                                                                                                                                                                              | No.  | 2        |           |             |
| 19,6  | Supply and install a 160mm swing check valve flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.  | 1        |           |             |
| 19,7  | Supply and install a 160mm In-line strainer, flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.  | 1        |           |             |
| 19,8  | Supply and install a 160mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                       | No.  | 1        |           |             |
| 19,9  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                                                                                                                                                                                                                                    | m    | 8        |           |             |
| 19.10 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. Link the meter on both the billing server and the new Utilites Management System Link the meter on both the billing server and the new Utilites Management System                                                                                               | No.  | 1        |           |             |
|       | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |           |             |

| ITEM  | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|       | <b>BROUGHT FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |           |             |
|       | <b>METER No. 19 Installation of New meter including associated components<br/>Meter size: 160mm, existing pipe material is u-PVC</b>                                                                                                                                                                                                                                                                                    |      |          |           |             |
| 20,1  | Proof trench and verify the pipe material, depth and pipe size before procuring any material for the installation.                                                                                                                                                                                                                                                                                                      | m3   | 5        |           |             |
| 20,2  | Cutting off approximately 4.5m of pipe including fitting of flanges on both ends of exposed pipe as per drawings and specifications                                                                                                                                                                                                                                                                                     | m    | 4,5      |           |             |
| 20,3  | Construct a new water meter manhole with overall size 2.66m x 1.66m and varying depths not exceeding 2.53m deep including all necessary additional excavations, risk of collapse, blinding, manhole base, stone bedding, 230mm brickwork, backfilling, concrete cover slab, including breaking openings on both ends for new pipe and cart away of surplus material all in accordance with drawings and specifications. | No.  | 1        |           |             |
| 20,4  | Supply and install 160mm diameter steel pipes each approximately 1.4m in length, flanged on both ends and fitted on either end of manhole to existing flanged asbestos pipes and in new manholes including sealing off ends of manholes, support/thrust blocks, etc., gaskets, bolts, sealants etc.                                                                                                                     | No.  | 2        |           |             |
| 20,5  | Supply and install 160mm dia. spool pieces approximately 250mm in length flanged on both ends and fitted to meter, strainer & valve including all necessary, gaskets, bolts, sealants etc.                                                                                                                                                                                                                              | No.  | 2        |           |             |
| 20,6  | Supply and install a 160mm swing check valve flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.  | 1        |           |             |
| 20,7  | Supply and install a 160mm In-line strainer, flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.  | 1        |           |             |
| 20,8  | Supply and install a 160mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                       | No.  | 1        |           |             |
| 20,9  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                                                                                                                                                                                                                                    | m    | 8        |           |             |
| 20.10 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. Link the meter on both the billing server and the new Utilites Management System Link the meter on both the billing server and the new Utilites Management System                                                                                               | No.  | 1        |           |             |
|       | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |           |             |

| ITEM  | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                             | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|-----------|-------------|
|       | <b>BROUGHT FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |
|       | <b>METER No. 20 Installation of New meter including associated components<br/>Meter size: 160mm, existing pipe material is u-PVC</b>                                                                                                                                                                                                                                                                                    |                |          |           |             |
| 21,1  | Proof trench and verify the pipe material, depth and pipe size before procuring any material for the installation.                                                                                                                                                                                                                                                                                                      | m <sup>3</sup> | 5        |           |             |
| 21,2  | Cutting off approximately 4.5m of pipe including fitting of flanges on both ends of exposed pipe as per drawings and specifications                                                                                                                                                                                                                                                                                     | m              | 4,5      |           |             |
| 21,3  | Construct a new water meter manhole with overall size 2.66m x 1.66m and varying depths not exceeding 2.53m deep including all necessary additional excavations, risk of collapse, blinding, manhole base, stone bedding, 230mm brickwork, backfilling, concrete cover slab, including breaking openings on both ends for new pipe and cart away of surplus material all in accordance with drawings and specifications. | No.            | 1        |           |             |
| 21,4  | Supply and install 160mm diameter steel pipes each approximately 1.4m in length, flanged on both ends and fitted on either end of manhole to existing flanged asbestos pipes and in new manholes including sealing off ends of manholes, support/thrust blocks, etc., gaskets, bolts, sealants etc.                                                                                                                     | No.            | 2        |           |             |
| 21,5  | Supply and install 160mm dia. spool pieces approximately 250mm in length flanged on both ends and fitted to meter, strainer & valve including all necessary, gaskets, bolts, sealants etc.                                                                                                                                                                                                                              | No.            | 2        |           |             |
| 21,6  | Supply and install a 160mm swing check valve flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 21,7  | Supply and install a 160mm In-line strainer, flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 21,8  | Supply and install a 160mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                       | No.            | 1        |           |             |
| 21,9  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                                                                                                                                                                                                                                    | m              | 8        |           |             |
| 21.10 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. Link the meter on both the billing server and the new Utilites Management System Link the meter on both the billing server and the new Utilites Management System                                                                                               | No.            | 1        |           |             |
|       | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |

| ITEM  | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|       | <b>BROUGHT FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |           |             |
|       | <b>METER No. 21 Installation of New meter including associated components<br/>Meter size: 160mm, existing pipe material is u-PVC</b>                                                                                                                                                                                                                                                                                    |      |          |           |             |
| 22,1  | Proof trench and verify the pipe material, depth and pipe size before procuring any material for the installation.                                                                                                                                                                                                                                                                                                      | m3   | 5        |           |             |
| 22,2  | Cutting off approximately 4.5m of pipe including fitting of flanges on both ends of exposed pipe as per drawings and specifications                                                                                                                                                                                                                                                                                     | m    | 4,5      |           |             |
| 22,3  | Construct a new water meter manhole with overall size 2.66m x 1.66m and varying depths not exceeding 2.53m deep including all necessary additional excavations, risk of collapse, blinding, manhole base, stone bedding, 230mm brickwork, backfilling, concrete cover slab, including breaking openings on both ends for new pipe and cart away of surplus material all in accordance with drawings and specifications. | No.  | 1        |           |             |
| 22,4  | Supply and install 160mm diameter steel pipes each approximately 1.4m in length, flanged on both ends and fitted on either end of manhole to existing flanged asbestos pipes and in new manholes including sealing off ends of manholes, support/thrust blocks, etc., gaskets, bolts, sealants etc.                                                                                                                     | No.  | 2        |           |             |
| 22,5  | Supply and install 160mm dia. spool pieces approximately 250mm in length flanged on both ends and fitted to meter, strainer & valve including all necessary, gaskets, bolts, sealants etc.                                                                                                                                                                                                                              | No.  | 2        |           |             |
| 22,6  | Supply and install a 160mm swing check valve flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.  | 1        |           |             |
| 22,7  | Supply and install a 160mm In-line strainer, flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.  | 1        |           |             |
| 22,8  | Supply and install a 160mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                       | No.  | 1        |           |             |
| 22,9  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                                                                                                                                                                                                                                    | m    | 8        |           |             |
| 22.10 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. Link the meter on both the billing server and the new Utilites Management System Link the meter on both the billing server and the new Utilites Management System                                                                                               | No.  | 1        |           |             |
|       | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |           |             |

| ITEM  | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|       | <b>BROUGHT FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |           |             |
|       | <b>METER No. 22 Installation of New meter including associated components<br/>Meter size: 160mm, existing pipe material is u-PVC</b>                                                                                                                                                                                                                                                                                    |      |          |           |             |
| 23,1  | Proof trench and verify the pipe material, depth and pipe size before procuring any material for the installation.                                                                                                                                                                                                                                                                                                      | m3   | 5        |           |             |
| 23,2  | Cutting off approximately 4.5m of pipe including fitting of flanges on both ends of exposed pipe as per drawings and specifications                                                                                                                                                                                                                                                                                     | m    | 4,5      |           |             |
| 23,3  | Construct a new water meter manhole with overall size 2.66m x 1.66m and varying depths not exceeding 2.53m deep including all necessary additional excavations, risk of collapse, blinding, manhole base, stone bedding, 230mm brickwork, backfilling, concrete cover slab, including breaking openings on both ends for new pipe and cart away of surplus material all in accordance with drawings and specifications. | No.  | 1        |           |             |
| 23,4  | Supply and install 160mm diameter steel pipes each approximately 1.4m in length, flanged on both ends and fitted on either end of manhole to existing flanged asbestos pipes and in new manholes including sealing off ends of manholes, support/thrust blocks, etc., gaskets, bolts, sealants etc.                                                                                                                     | No.  | 2        |           |             |
| 23,5  | Supply and install 160mm dia. spool pieces approximately 250mm in length flanged on both ends and fitted to meter, strainer & valve including all necessary, gaskets, bolts, sealants etc.                                                                                                                                                                                                                              | No.  | 2        |           |             |
| 23,6  | Supply and install a 160mm swing check valve flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.  | 1        |           |             |
| 23,7  | Supply and install a 160mm In-line strainer, flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.  | 1        |           |             |
| 23,8  | Supply and install a 160mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                       | No.  | 1        |           |             |
| 23,9  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                                                                                                                                                                                                                                    | m    | 8        |           |             |
| 23.10 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. Link the meter on both the billing server and the new Utilites Management System Link the meter on both the billing server and the new Utilites Management System                                                                                               | No.  | 1        |           |             |
|       | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |           |             |

| ITEM  | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                             | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|-----------|-------------|
|       | <b>BROUGHT FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |
|       | <b>METER No. 23 Installation of New meter including associated components<br/>Meter size: 160mm, existing pipe material is u-PVC</b>                                                                                                                                                                                                                                                                                    |                |          |           |             |
| 24,1  | Proof trench and verify the pipe material, depth and pipe size before procuring any material for the installation.                                                                                                                                                                                                                                                                                                      | m <sup>3</sup> | 5        |           |             |
| 24,2  | Cutting off approximately 4.5m of pipe including fitting of flanges on both ends of exposed pipe as per drawings and specifications                                                                                                                                                                                                                                                                                     | m              | 4,5      |           |             |
| 24,3  | Construct a new water meter manhole with overall size 2.66m x 1.66m and varying depths not exceeding 2.53m deep including all necessary additional excavations, risk of collapse, blinding, manhole base, stone bedding, 230mm brickwork, backfilling, concrete cover slab, including breaking openings on both ends for new pipe and cart away of surplus material all in accordance with drawings and specifications. | No.            | 1        |           |             |
| 24,4  | Supply and install 160mm diameter steel pipes each approximately 1.4m in length, flanged on both ends and fitted on either end of manhole to existing flanged asbestos pipes and in new manholes including sealing off ends of manholes, support/thrust blocks, etc., gaskets, bolts, sealants etc.                                                                                                                     | No.            | 2        |           |             |
| 24,5  | Supply and install 160mm dia. spool pieces approximately 250mm in length flanged on both ends and fitted to meter, strainer & valve including all necessary, gaskets, bolts, sealants etc.                                                                                                                                                                                                                              | No.            | 2        |           |             |
| 24,6  | Supply and install a 160mm swing check valve flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 24,7  | Supply and install a 160mm In-line strainer, flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 24,8  | Supply and install a 160mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                       | No.            | 1        |           |             |
| 24,9  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                                                                                                                                                                                                                                    | m              | 8        |           |             |
| 24.10 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. Link the meter on both the billing server and the new Utilites Management System Link the meter on both the billing server and the new Utilites Management System                                                                                               | No.            | 1        |           |             |
|       | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                             | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |
|           | <b>METER No. 24 Installation of New meter including associated components<br/>Meter size: 160mm, existing pipe material is u-PVC</b>                                                                                                                                                                                                                                                                                    |                |          |           |             |
| 251       | Proof trench and verify the pipe material, depth and pipe size before procuring any material for the installation.                                                                                                                                                                                                                                                                                                      | m <sup>3</sup> | 5        |           |             |
| 251,1     | Cutting off approximately 4.5m of pipe including fitting of flanges on both ends of exposed pipe as per drawings and specifications                                                                                                                                                                                                                                                                                     | m              | 4,5      |           |             |
| 251,2     | Construct a new water meter manhole with overall size 2.66m x 1.66m and varying depths not exceeding 2.53m deep including all necessary additional excavations, risk of collapse, blinding, manhole base, stone bedding, 230mm brickwork, backfilling, concrete cover slab, including breaking openings on both ends for new pipe and cart away of surplus material all in accordance with drawings and specifications. | No.            | 1        |           |             |
| 251,3     | Supply and install 160mm diameter steel pipes each approximately 1.4m in length, flanged on both ends and fitted on either end of manhole to existing flanged asbestos pipes and in new manholes including sealing off ends of manholes, support/thrust blocks, etc., gaskets, bolts, sealants etc.                                                                                                                     | No.            | 2        |           |             |
| 251,4     | Supply and install 160mm dia. spool pieces approximately 250mm in length flanged on both ends and fitted to meter, strainer & valve including all necessary, gaskets, bolts, sealants etc.                                                                                                                                                                                                                              | No.            | 2        |           |             |
| 251,5     | Supply and install a 160mm swing check valve flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 251,6     | Supply and install a 160mm In-line strainer, flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 251,7     | Supply and install a 160mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                       | No.            | 1        |           |             |
| 251,8     | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                                                                                                                                                                                                                                    | m              | 8        |           |             |
| 25.10     | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. Link the meter on both the billing server and the new Utilites Management System Link the meter on both the billing server and the new Utilites Management System                                                                                               | No.            | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |
| <b>28</b> |                                                                                                                                                                                                                                                                                                                                                                                                                         |                |          |           |             |

| ITEM  | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                             | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|-----------|-------------|
|       | <b>BROUGHT FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |
|       | <b>METER No. 25 Installation of New meter including associated components<br/>Meter size: 160mm, existing pipe material is u-PVC</b>                                                                                                                                                                                                                                                                                    |                |          |           |             |
| 26,1  | Proof trench and verify the pipe material, depth and pipe size before procuring any material for the installation.                                                                                                                                                                                                                                                                                                      | m <sup>3</sup> | 5        |           |             |
| 26,2  | Cutting off approximately 4.5m of pipe including fitting of flanges on both ends of exposed pipe as per drawings and specifications                                                                                                                                                                                                                                                                                     | m              | 4,5      |           |             |
| 26,3  | Construct a new water meter manhole with overall size 2.66m x 1.66m and varying depths not exceeding 2.53m deep including all necessary additional excavations, risk of collapse, blinding, manhole base, stone bedding, 230mm brickwork, backfilling, concrete cover slab, including breaking openings on both ends for new pipe and cart away of surplus material all in accordance with drawings and specifications. | No.            | 1        |           |             |
| 26,4  | Supply and install 160mm diameter steel pipes each approximately 1.4m in length, flanged on both ends and fitted on either end of manhole to existing flanged asbestos pipes and in new manholes including sealing off ends of manholes, support/thrust blocks, etc., gaskets, bolts, sealants etc.                                                                                                                     | No.            | 2        |           |             |
| 26,5  | Supply and install 160mm dia. spool pieces approximately 250mm in length flanged on both ends and fitted to meter, strainer & valve including all necessary, gaskets, bolts, sealants etc.                                                                                                                                                                                                                              | No.            | 2        |           |             |
| 26,6  | Supply and install a 160mm swing check valve flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 26,7  | Supply and install a 160mm In-line strainer, flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 26,8  | Supply and install a 160mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                       | No.            | 1        |           |             |
| 26,9  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                                                                                                                                                                                                                                    | m              | 8        |           |             |
| 26.10 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. Link the meter on both the billing server and the new Utilites Management System Link the meter on both the billing server and the new Utilites Management System                                                                                               | No.            | 1        |           |             |
|       | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |

| ITEM  | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                             | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|-----------|-------------|
|       | <b>BROUGHT FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |
|       | <b>METER No. 26 Installation of New meter including associated components<br/>Meter size: 160mm, existing pipe material is u-PVC</b>                                                                                                                                                                                                                                                                                    |                |          |           |             |
| 27,1  | Proof trench and verify the pipe material, depth and pipe size before procuring any material for the installation.                                                                                                                                                                                                                                                                                                      | m <sup>3</sup> | 5        |           |             |
| 27,2  | Cutting off approximately 4.5m of pipe including fitting of flanges on both ends of exposed pipe as per drawings and specifications                                                                                                                                                                                                                                                                                     | m              | 4,5      |           |             |
| 27,3  | Construct a new water meter manhole with overall size 2.66m x 1.66m and varying depths not exceeding 2.53m deep including all necessary additional excavations, risk of collapse, blinding, manhole base, stone bedding, 230mm brickwork, backfilling, concrete cover slab, including breaking openings on both ends for new pipe and cart away of surplus material all in accordance with drawings and specifications. | No.            | 1        |           |             |
| 27,4  | Supply and install 160mm diameter steel pipes each approximately 1.4m in length, flanged on both ends and fitted on either end of manhole to existing flanged asbestos pipes and in new manholes including sealing off ends of manholes, support/thrust blocks, etc., gaskets, bolts, sealants etc.                                                                                                                     | No.            | 2        |           |             |
| 27,5  | Supply and install 160mm dia. spool pieces approximately 250mm in length flanged on both ends and fitted to meter, strainer & valve including all necessary, gaskets, bolts, sealants etc.                                                                                                                                                                                                                              | No.            | 2        |           |             |
| 27,6  | Supply and install a 160mm swing check valve flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 27,7  | Supply and install a 160mm In-line strainer, flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 27,8  | Supply and install a 160mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                       | No.            | 1        |           |             |
| 27,9  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                                                                                                                                                                                                                                    | m              | 8        |           |             |
| 27.10 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. Link the meter on both the billing server and the new Utilites Management System Link the meter on both the billing server and the new Utilites Management System                                                                                               | No.            | 1        |           |             |
|       | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                             | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |
|           | <b>METER No. 27 Installation of New meter including associated components<br/>Meter size: 160mm, existing pipe material is u-PVC</b>                                                                                                                                                                                                                                                                                    |                |          |           |             |
| 28,1      | Proof trench and verify the pipe material, depth and pipe size before procuring any material for the installation.                                                                                                                                                                                                                                                                                                      | m <sup>3</sup> | 5        |           |             |
| 28,2      | Cutting off approximately 4.5m of pipe including fitting of flanges on both ends of exposed pipe as per drawings and specifications                                                                                                                                                                                                                                                                                     | m              | 4,5      |           |             |
| 28,3      | Construct a new water meter manhole with overall size 2.66m x 1.66m and varying depths not exceeding 2.53m deep including all necessary additional excavations, risk of collapse, blinding, manhole base, stone bedding, 230mm brickwork, backfilling, concrete cover slab, including breaking openings on both ends for new pipe and cart away of surplus material all in accordance with drawings and specifications. | No.            | 1        |           |             |
| 28,4      | Supply and install 160mm diameter steel pipes each approximately 1.4m in length, flanged on both ends and fitted on either end of manhole to existing flanged asbestos pipes and in new manholes including sealing off ends of manholes, support/thrust blocks, etc., gaskets, bolts, sealants etc.                                                                                                                     | No.            | 2        |           |             |
| 28,5      | Supply and install 160mm dia spool pieces approximately 250mm in length flanged on both ends and fitted to meter, strainer & valve including all necessary, gaskets, bolts, sealants etc.                                                                                                                                                                                                                               | No.            | 2        |           |             |
| 28,6      | Supply and install a 160mm swing check valve flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 28,7      | Supply and install a 160mm In-line strainer, flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 28,8      | Supply and install a 160mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                       | No.            | 1        |           |             |
| 28,9      | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                                                                                                                                                                                                                                    | m              | 8        |           |             |
| 28.10     | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. Link the meter on both the billing server and the new Utilites Management System Link the meter on both the billing server and the new Utilites Management System                                                                                               | No.            | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |
| <b>28</b> |                                                                                                                                                                                                                                                                                                                                                                                                                         |                |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                             | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |
|           | <b>METER No. 28 Installation of New meter including associated components<br/>Meter size: 160mm, existing pipe material is u-PVC</b>                                                                                                                                                                                                                                                                                    |                |          |           |             |
| 29,1      | Proof trench and verify the pipe material, depth and pipe size before procuring any material for the installation.                                                                                                                                                                                                                                                                                                      | m <sup>3</sup> | 5        |           |             |
| 29,2      | Cutting off approximately 4.5m of pipe including fitting of flanges on both ends of exposed pipe as per drawings and specifications                                                                                                                                                                                                                                                                                     | m              | 4,5      |           |             |
| 29,3      | Construct a new water meter manhole with overall size 2.66m x 1.66m and varying depths not exceeding 2.53m deep including all necessary additional excavations, risk of collapse, blinding, manhole base, stone bedding, 230mm brickwork, backfilling, concrete cover slab, including breaking openings on both ends for new pipe and cart away of surplus material all in accordance with drawings and specifications. | No.            | 1        |           |             |
| 29,4      | Supply and install 160mm diameter steel pipes each approximately 1.4m in length, flanged on both ends and fitted on either end of manhole to existing flanged asbestos pipes and in new manholes including sealing off ends of manholes, support/thrust blocks, etc., gaskets, bolts, sealants etc.                                                                                                                     | No.            | 2        |           |             |
| 29,5      | Supply and install 160mm dia. spool pieces approximately 250mm in length flanged on both ends and fitted to meter, strainer & valve including all necessary, gaskets, bolts, sealants etc.                                                                                                                                                                                                                              | No.            | 2        |           |             |
| 29,6      | Supply and install a 160mm swing check valve flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 29,7      | Supply and install a 160mm In-line strainer, flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 29,8      | Supply and install a 160mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                       | No.            | 1        |           |             |
| 29,9      | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                                                                                                                                                                                                                                    | m              | 8        |           |             |
| 29.10     | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. Link the meter on both the billing server and the new Utilites Management System Link the meter on both the billing server and the new Utilites Management System                                                                                               | No.            | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |
| <b>28</b> |                                                                                                                                                                                                                                                                                                                                                                                                                         |                |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                             | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |
|           | <b>METER No. 29 Installation of New meter including associated components<br/>Meter size: 160mm, existing pipe material is u-PVC</b>                                                                                                                                                                                                                                                                                    |                |          |           |             |
| 30,1      | Proof trench and verify the pipe material, depth and pipe size before procuring any material for the installation.                                                                                                                                                                                                                                                                                                      | m <sup>3</sup> | 5        |           |             |
| 30,2      | Cutting off approximately 4.5m of pipe including fitting of flanges on both ends of exposed pipe as per drawings and specifications                                                                                                                                                                                                                                                                                     | m              | 4,5      |           |             |
| 30,3      | Construct a new water meter manhole with overall size 2.66m x 1.66m and varying depths not exceeding 2.53m deep including all necessary additional excavations, risk of collapse, blinding, manhole base, stone bedding, 230mm brickwork, backfilling, concrete cover slab, including breaking openings on both ends for new pipe and cart away of surplus material all in accordance with drawings and specifications. | No.            | 1        |           |             |
| 30,4      | Supply and install 160mm diameter steel pipes each approximately 1.4m in length, flanged on both ends and fitted on either end of manhole to existing flanged asbestos pipes and in new manholes including sealing off ends of manholes, support/thrust blocks, etc., gaskets, bolts, sealants etc.                                                                                                                     | No.            | 2        |           |             |
| 30,5      | Supply and install 160mm dia. spool pieces approximately 250mm in length flanged on both ends and fitted to meter, strainer & valve including all necessary, gaskets, bolts, sealants etc.                                                                                                                                                                                                                              | No.            | 2        |           |             |
| 30,6      | Supply and install a 160mm swing check valve flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 30,7      | Supply and install a 160mm In-line strainer, flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 30,8      | Supply and install a 160mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                       | No.            | 1        |           |             |
| 30,9      | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                                                                                                                                                                                                                                    | m              | 8        |           |             |
| 30.10     | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. Link the meter on both the billing server and the new Utilites Management System Link the meter on both the billing server and the new Utilites Management System                                                                                               | No.            | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |
| <b>28</b> |                                                                                                                                                                                                                                                                                                                                                                                                                         |                |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>31</b> | <b>MZR 181 Flames Area</b>                                                                                                                              |      |          |           |             |
| 31,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 31,2      | Supply and install a new 80 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 31,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 31,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 31,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 31,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>32</b> | <b>Flames Restaurant</b>                                                                                                                                |      |          |           |             |
| 32,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 32,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 32,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 32,4      | Register the meter on both the billing server and the new Utility Mana                                                                                  | No.  | 1        |           |             |
| 32,5      | Create an account and link the meter to the account and apply the ap                                                                                    | No.  | 1        |           |             |
| 32,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>33</b> | <b>Car Wash</b>                                                                                                                                         |      |          |           |             |
| 33,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 33,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 33,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 33,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 33,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 33,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>34</b> | <b>Station Complex (Check Meter)</b>                                                                                                                    |      |          |           |             |
| 34,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 34,2      | Supply and install a new 80 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 34,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 34,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 34,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 34,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>35</b> | <b>Bedding Stores</b>                                                                                                                                   |      |          |           |             |
| 35,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 35,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 35,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 35,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 35,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 35,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>36</b> | <b>Station 1</b>                                                                                                                                        |      |          |           |             |
| 36,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 36,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 36,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 36,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 36,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 36,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>28</b> |                                                                                                                                                         |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>37</b> | <b>Station 2 Laparon</b>                                                                                                                                |      |          |           |             |
| 37,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 37,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 37,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 37,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 37,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 37,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>38</b> | <b>Old Electrical Workshop</b>                                                                                                                          |      |          |           |             |
| 38,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 38,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 38,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 38,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 38,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 38,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>39</b> | <b>Station Platform</b>                                                                                                                                 |      |          |           |             |
| 39,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 39,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 39,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 39,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 39,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 39,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>28</b> |                                                                                                                                                         |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>40</b> | <b>GZR 257 Bridge Bulk (Quay 4)</b>                                                                                                                     |      |          |           |             |
| 40,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 40,2      | Supply and install a new 80 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 40,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 40,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 40,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 40,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>41</b> | <b>Recreational Slipway Office</b>                                                                                                                      |      |          |           |             |
| 41,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 41,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 41,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 41,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 41,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 41,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>42</b> | <b>Recreational Brick Building Ablutions TNPA</b>                                                                                                       |      |          |           |             |
| 42,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 42,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 42,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 42,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 42,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 42,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>43</b> | <b>Mobile Toilets TNPA</b>                                                                                                                              |      |          |           |             |
| 43,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 43,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 43,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 43,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 43,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 43,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>44</b> | <b>WAG/Steakhouse</b>                                                                                                                                   |      |          |           |             |
| 44,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 44,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 44,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 44,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 44,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 44,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>45</b> | <b>KAAI 4</b>                                                                                                                                           |      |          |           |             |
| 45,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 45,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 45,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 45,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 45,5      | Create an account and link the meter to the account and apply the ap                                                                                    | No.  | 1        |           |             |
| 45,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>46</b> | <b>London Bus/Oyster Bar</b>                                                                                                                            |      |          |           |             |
| 46,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 46,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 46,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 46,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 46,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 46,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>47</b> | <b>Waterfront 1</b>                                                                                                                                     |      |          |           |             |
| 47,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 47,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 47,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 47,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 47,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 47,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>48</b> | <b>Waterfront 2</b>                                                                                                                                     |      |          |           |             |
| 48,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 48,2      | Supply and install a new 22 mm water meter compatible with AMR technology                                                                               | No.  | 1        |           |             |
| 48,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 48,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 48,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 48,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>49</b> | <b>Romonza</b>                                                                                                                                          |      |          |           |             |
| 49,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 49,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 49,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 49,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 49,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 49,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>50</b> | <b>Minoli</b>                                                                                                                                           |      |          |           |             |
| 50,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 50,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 50,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 50,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 50,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 50,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>51</b> | <b>Gate No 2</b>                                                                                                                                        |      |          |           |             |
| 51,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 51,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 51,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 51,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 51,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 51,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           | R -         |
| <b>52</b> | <b>Good Shed</b>                                                                                                                                        |      |          |           |             |
| 52,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 52,2      | Supply and install a new 80 mm water meter compatible with AMR technology                                                                               | No.  | 1        |           |             |
| 52,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 52,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 52,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 52,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>53</b> | <b>F/H Supply Bulk meter (Station Platform)</b>                                                                                                         |      |          |           |             |
| 53,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 53,2      | Supply and install a new 80 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 53,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 53,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 53,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 53,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>54</b> | <b>Check Meter VJ</b>                                                                                                                                   |      |          |           |             |
| 54,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 54,2      | Supply and install a new 80 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 54,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 54,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 54,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 54,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>55</b> | <b>VJ Security Guardhouse</b>                                                                                                                           |      |          |           |             |
| 55,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 55,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 55,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 55,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 55,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 55,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>56</b> | <b>TNPA Marine Supply Point Artic Turn</b>                                                                                                              |      |          |           |             |
| 56,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 56,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 56,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 56,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 56,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 56,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>57</b> | <b>TNPA Marine Supply Point Snipe</b>                                                                                                                   |      |          |           |             |
| 57,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 57,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 57,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 57,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 57,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 57,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>58</b> | <b>Smit Amandla</b>                                                                                                                                     |      |          |           |             |
| 58,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 58,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 58,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 58,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 58,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 58,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>59</b> | <b>VJ Quay Side Supply Pnt #1</b>                                                                                                                       |      |          |           |             |
| 59,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 59,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 59,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 59,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 59,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 59,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>60</b> | <b>VJ Quay Side Supply Pnt #2</b>                                                                                                                       |      |          |           |             |
| 60,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 60,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 60,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 60,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 60,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 60,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>61</b> | <b>VJ Quay Side Supply Pnt #3</b>                                                                                                                       |      |          |           |             |
| 61,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 61,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 61,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 61,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 61,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 61,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>62</b> | <b>VJ Quay Side Supply Pnt #4</b>                                                                                                                       |      |          |           |             |
| 62,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 62,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 62,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 62,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 62,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 62,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>63</b> | <b>Sliding Door</b>                                                                                                                                     |      |          |           |             |
| 63,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 63,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 63,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 63,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 63,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 63,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>64</b> | <b>Store Racks</b>                                                                                                                                      |      |          |           |             |
| 64,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 64,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 64,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 64,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 64,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 64,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>65</b> | <b>Wash Bay</b>                                                                                                                                         |      |          |           |             |
| 65,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 65,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 65,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 65,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 65,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 65,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>66</b> | <b>Tsisa yama</b>                                                                                                                                       |      |          |           |             |
| 66,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 66,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 66,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 66,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 66,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 66,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>67</b> | <b>Sea Gypsey</b>                                                                                                                                       |      |          |           |             |
| 67,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 67,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 67,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 67,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 67,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 67,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>68</b> | <b>Biblia</b>                                                                                                                                           |      |          |           |             |
| 68,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 68,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 68,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 68,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 68,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 68,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>69</b> | <b>Gate 1 Guard House</b>                                                                                                                               |      |          |           |             |
| 69,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 69,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 69,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 69,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 69,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 69,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>70</b> | <b>Border Management Agency</b>                                                                                                                         |      |          |           |             |
| 70,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 70,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 70,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 70,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 70,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 70,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>71</b> | <b>Luna Moon</b>                                                                                                                                        |      |          |           |             |
| 71,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 71,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 71,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 71,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 71,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 71,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>72</b> | <b>PetroSA Office</b>                                                                                                                                   |      |          |           |             |
| 72,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 72,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 72,30     | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 72,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 72,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 72,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>73</b> | <b>PetroSA Mess &amp; Ablution</b>                                                                                                                      |      |          |           |             |
| 73,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 73,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 73,3      | Supply, install, mount and configure a smart IP68 automatic data logger                                                                                 | No.  | 1        |           |             |
| 73,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 73,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 73,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>74</b> | <b>Meg Plant (Tanks)</b>                                                                                                                                |      |          |           |             |
| 74,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 74,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 74,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 74,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 74,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 74,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>75</b> | <b>Long Shed (PetroSA) Q4</b>                                                                                                                           |      |          |           |             |
| 75,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 75,2      | Supply and install a new 90 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 75,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 75,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 75,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 75,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>76</b> | <b>Quay Side Point 1 (Charlie)</b>                                                                                                                      |      |          |           |             |
| 76,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 76,2      | Supply and install a new 90 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 76,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 76,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 76,5      | Create an account and link the meter to the account and apply the ap                                                                                    | No.  | 1        |           |             |
| 76,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>77</b> | <b>Quay Side Point 2 (Bravo)</b>                                                                                                                        |      |          |           |             |
| 77,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 77,2      | Supply and install a new 90 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 77,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 77,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 77,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 77,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>78</b> | <b>Quay Side Point 3 (Alpha)</b>                                                                                                                        |      |          |           |             |
| 78,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 78,2      | Supply and install a new 90 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 78,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 78,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 78,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 78,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>79</b> | <b>UZR 752 Viking Area</b>                                                                                                                              |      |          |           |             |
| 79,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 79,2      | Supply and install a new 80 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 79,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 79,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 79,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 79,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>80</b> | <b>Blue Shed</b>                                                                                                                                        |      |          |           |             |
| 80,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 80,2      | Supply and install a new 80 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 80,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 80,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 80,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 80,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>81</b> | <b>Afro Fishing 2 (Old I &amp; J Site) On quay side</b>                                                                                                 |      |          |           |             |
| 81,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 81,2      | Supply and install a new 80 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 81,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 81,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 81,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 81,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>82</b> | <b>Viking Fishing</b>                                                                                                                                   |      |          |           |             |
| 82,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 82,20     | Supply and install a new 80 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 82,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 82,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 82,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 82,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>83</b> | <b>Gate No.3 TNPA</b>                                                                                                                                   |      |          |           |             |
| 83,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 83,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 83,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 83,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 83,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 83,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>84</b> | <b>Kepu Site</b>                                                                                                                                        |      |          |           |             |
| 84,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 84,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 84,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 84,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 84,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 84,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>85</b> | <b>Quay No.3 TNPA Supply Point</b>                                                                                                                      |      |          |           |             |
| 85,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 85,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 85,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 85,40     | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 85,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 85,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>86</b> | <b>NSRI</b>                                                                                                                                             |      |          |           |             |
| 86,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 86,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 86,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 86,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 86,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 86,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>87</b> | <b>Tuck Shop</b>                                                                                                                                        |      |          |           |             |
| 87,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 87,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 87,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 87,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 87,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 87,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>88</b> | <b>Slipway</b>                                                                                                                                          |      |          |           |             |
| 88,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 88,2      | Supply and install a new 28 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 88,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 88,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 88,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 88,60     | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>89</b> | <b>Administration Building (TNPA)</b>                                                                                                                   |      |          |           |             |
| 89,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 89,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 89,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 89,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 89,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 89,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>90</b> | <b>Vincent Jetty Quay Side Supply @ Romonza</b>                                                                                                         |      |          |           |             |
| 90,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 90,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 90,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 90,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 90,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 90,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>91</b> | <b>Marine Park Home</b>                                                                                                                                 |      |          |           |             |
| 91,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 91,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 91,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 91,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 91,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 91,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>92</b> | <b>Pioneer 1</b>                                                                                                                                        |      |          |           |             |
| 92,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 92,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 92,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 92,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 92,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 92,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>93</b> | <b>Pioneer 2</b>                                                                                                                                        |      |          |           |             |
| 93,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 93,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 93,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 93,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 93,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 93,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>94</b> | <b>Lucky Star</b>                                                                                                                                       |      |          |           |             |
| 94,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 94,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 94,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 94,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 94,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 94,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>95</b> | <b>Walk on Moorings (TNPA)</b>                                                                                                                          |      |          |           |             |
| 95,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 95,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 95,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 95,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 95,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 95,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>96</b> | <b>Wash-bay (TNPA)</b>                                                                                                                                  |      |          |           |             |
| 96,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 96,2      | Supply and install a new 22 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 96,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 96,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 96,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 96,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>97</b> | <b>LBS 185 (Yacht Club) – Bulk Meter</b>                                                                                                                |      |          |           |             |
| 97,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 97,2      | Supply and install a new 28 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 97,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 97,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 97,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 97,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>98</b> | <b>Blue Door</b>                                                                                                                                        |      |          |           |             |
| 98,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 98,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 98,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 98,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 98,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 98,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>99</b> | <b>Mozambiek</b>                                                                                                                                        |      |          |           |             |
| 99,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 99,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 99,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 99,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 99,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 99,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>100</b> | <b>Ladies Ablutions (TNPA)</b>                                                                                                                          |      |          |           |             |
| 100,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 100,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 100,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 100,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 100,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 100,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>101</b> | <b>Men's Ablutions (TNPA)</b>                                                                                                                           |      |          |           |             |
| 101,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 101,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 101,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 101,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 101,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 101,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>102</b> | <b>Aquamarine</b>                                                                                                                                       |      |          |           |             |
| 102,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 102,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 102,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 102,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 102,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 102,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD TO SUMMARY MSB</b>                                                                                                                   |      |          |           |             |

| ITEM     | DESCRIPTION                                                                                                                                                                                                                                                      | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|          | <b>SUPPLY AND INSTALLATION OF SMART ELECTRICITY METERS</b>                                                                                                                                                                                                       |      |          |           |             |
| <b>C</b> | <b>Replacement of Electricity Meters in various locations (Three Phase)</b>                                                                                                                                                                                      |      |          |           |             |
|          | Supply, install, configure, test and commission Smart Electricity Meters for measurement of different electrical parameters listed elsewhere in the document including Active energy (kWh/MWh), Reactive energy (kVARh/MVARh), Apparent energy (kVAh/MVAh) etc., |      |          |           |             |
| 1,1      | Decommission and remove the existing Electricity Meters in various locations                                                                                                                                                                                     | No.  | 68       |           |             |
| 1,2      | Supply, install and configure a new Smart Electricity Meter with all the necessary comms required (communication module, GSM antenna etc.),                                                                                                                      | No.  | 68       |           |             |
| 1,3      | Establish connectivity: Link the meters to the billing server and the new Utilities Management System, Create Accounts and apply the tariffs.                                                                                                                    | No.  | 68       |           |             |
| 1,4      | Test and commission the installation.                                                                                                                                                                                                                            | No.  | 68       |           |             |
|          | <b>Replacement of Electricity Meters in various locations (Single Phase)</b>                                                                                                                                                                                     |      |          |           |             |
| 2,1      | Decommission and remove the existing Electricity Meters in various locations                                                                                                                                                                                     | No.  | 2        |           |             |
| 2,2      | Supply, install and configure a new Smart Electricity Meter with all the necessary comms required (communication module, GSM antenna etc.),                                                                                                                      | No.  | 2        |           |             |
| 2,3      | Establish connectivity: Link the meters to the billing server and the new Utilities Management System via the LAN.                                                                                                                                               | No.  | 2        |           |             |
| 2,4      | Test and commission the installation.                                                                                                                                                                                                                            | No.  | 2        |           |             |
| 2,5      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                                                                                                     | No.  | 1        |           |             |
| 2,6      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                                                                                            | No.  | 1        |           |             |
| 2,7      | Test and commission the installation                                                                                                                                                                                                                             | No.  | 1        |           |             |
|          | <b>CARRIED FORWARD TO SUMMARY MSB</b>                                                                                                                                                                                                                            |      |          |           |             |

| ITEM     | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                            | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|-----------|-------------|
| <b>D</b> | <b>COMMUNICATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |          |           |             |
| 1,1      | Standalone Fibre Network - Design, supply, install and patch 48 pair single mode fibre optic cable (652D)                                                                                                                                                                                                                                                                                                                                              | m              | 5000     |           |             |
| 1,2      | Excavate and backfill where depth is not exceeding 2m deep                                                                                                                                                                                                                                                                                                                                                                                             | m <sup>3</sup> | 900      |           |             |
| 1,3      | Supply and install 110mm PVC pipe and chamber system for the fibre.                                                                                                                                                                                                                                                                                                                                                                                    | m              | 5000     |           |             |
| 1,4      | Reinstate existing surface and make good                                                                                                                                                                                                                                                                                                                                                                                                               | m <sup>2</sup> | 1500     |           |             |
| 1,5      | Supply and install patch panels fully populated 48 pair with Lucent Connector (LC) patch leads                                                                                                                                                                                                                                                                                                                                                         | No.            | 2        |           |             |
| 1,6      | Supply, install and configure media converters                                                                                                                                                                                                                                                                                                                                                                                                         | No.            | 6        |           |             |
| 1,7      | Supply, install and configure 24 ports managed enterprise network switches including routing and setting up VLANs                                                                                                                                                                                                                                                                                                                                      | No.            | 2        |           |             |
| 1,8      | Supply and install a 9U swing frame cabinet 900mm deep                                                                                                                                                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 1,9      | Design and construction of Manholes for fibre                                                                                                                                                                                                                                                                                                                                                                                                          | No.            | 5        |           |             |
| 1,10     | Supply, install and setup the sewers                                                                                                                                                                                                                                                                                                                                                                                                                   | No.            | 2        |           |             |
| 1,12     | Splicing of Fibres                                                                                                                                                                                                                                                                                                                                                                                                                                     | No.            | 48       |           |             |
| 1,13     | OTDR Testing (Test and submit line losses)                                                                                                                                                                                                                                                                                                                                                                                                             | No.            | 48       |           |             |
| 1,14     | Supply, install, configure and commission a Firewall for LAN, ensure that old and new services going through the Firewall are reinstated. Setup DMZ and position a management workstation within DMZ                                                                                                                                                                                                                                                   | Sum            | 1        |           |             |
| 1,15     | Supply and install management workstation desktops and link to TNPA corporate network. Setup rules for management workstation and provide dashboards whilst second LAN on machine connects to Transnet Data Network. Management station needs to be on Transnet domain and have relative Transnet Policies applied to it.                                                                                                                              | No.            | 1        |           |             |
| 1,16     | Supply and install the latest Microsoft SQL server (permanent license)                                                                                                                                                                                                                                                                                                                                                                                 | No.            | 2        |           |             |
|          | <b>CARRIED FORWARD TO SUMMARY MSB</b>                                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |          |           |             |
| ITEM     | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                            | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
| <b>E</b> | <b>PROCUREMENT AND SUPPLY OF SPARES</b>                                                                                                                                                                                                                                                                                                                                                                                                                |                |          |           |             |
| 1,1      | Smart automatic water meter reading devices                                                                                                                                                                                                                                                                                                                                                                                                            | No.            | 6        |           |             |
| 1,2      | Smart automatic energy meter reading devices                                                                                                                                                                                                                                                                                                                                                                                                           | No.            | 7        |           |             |
| 1,3      | Supply hand held automatic meter reading device (water & energy)                                                                                                                                                                                                                                                                                                                                                                                       | No.            | 2        |           |             |
|          | <b>CARRIED FORWARD TO SUMMARY MSB</b>                                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |
| ITEM     | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                            | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
| <b>F</b> | <b>AUTOMATIC METER READING (AMR) SYSTEM AND SOFTWARE INTEGRATION</b>                                                                                                                                                                                                                                                                                                                                                                                   |                |          |           |             |
|          | <b>Metering gateways</b>                                                                                                                                                                                                                                                                                                                                                                                                                               |                |          |           |             |
| 1,1      | Supply, installation, configure and integrate the metering gateways onto the LAN and utilities management system for uploading water meter data.                                                                                                                                                                                                                                                                                                       | No.            | 5        |           |             |
| 1,2      | <b>New Utilities Management System</b><br>Development, Programming and Software integration into the billing server, tariff setup, designing billing template and setting up billing accounts on billing server. Configure the server to send an Alert (SMS) to TNPA for abnormalities. Including linking all Port meters to new utilities management system. Provide license package. Develop an API and link it to the back end of IPMS and SAP ERP. | Sum            | 1        |           |             |
| 1,3      | Mapping the meters onto the Geographic Information System (GIS) showing the exact installation point, opening meter reading and the picture of the installation.                                                                                                                                                                                                                                                                                       | Sum            | 1        |           |             |
| 1,4      | Testing and commissioning of the software side both individually and                                                                                                                                                                                                                                                                                                                                                                                   | Sum            | 1        |           |             |
| 1,5      | AMR Training for End Users                                                                                                                                                                                                                                                                                                                                                                                                                             | Sum            | 1        |           |             |
|          | <b>CARRIED FORWARD TO SUMMARY MSB</b>                                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |

| PORT OF MOSSEL BAY                     |                                                                         |             |
|----------------------------------------|-------------------------------------------------------------------------|-------------|
|                                        | DESCRIPTION                                                             | AMOUNT<br>R |
| A                                      | PRELIMINARIES AND GENERALS                                              |             |
| B                                      | SUPPLY AND INSTALLATION OF SMART AUTOMATIC WATER METER READING DEVICES  |             |
| C                                      | SUPPLY AND INSTALLATION OF SMART AUTOMATIC ENERGY METER READING DEVICES |             |
| D                                      | COMMUNICATION                                                           |             |
| E                                      | PROCUREMENT AND SUPPLY OF SPARES                                        |             |
| F                                      | AUTOMATIC METER READING (AMR) SYSTEM AND SOFTWARE INTEGRATION           |             |
| TOTAL CARRIED FORWARD TO SUMMARY PAGE: |                                                                         |             |

| PRELIMINARY AND GENERAL |                                                                                                                                                                                                                                                                                                                                                    |      |          |           |             |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
| ITEM                    | DESCRIPTION                                                                                                                                                                                                                                                                                                                                        | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|                         | <b>PORT OF CAPE TOWN</b>                                                                                                                                                                                                                                                                                                                           |      |          |           |             |
|                         | <u>PREAMBLES</u>                                                                                                                                                                                                                                                                                                                                   |      |          |           |             |
|                         | Fixed preliminary items will be valuated and paid on a proven cost basis up to the total value<br><br>The tenderer is expected to understand the site, restrictions, and scope of work and price only the relevant items within the Preliminaries. All items priced will be assessed in relevance to the contract prior to any payments being made |      |          |           |             |
| <b>A</b>                | <b>FIXED-CHARGE ITEMS</b>                                                                                                                                                                                                                                                                                                                          |      |          |           |             |
|                         | <u>Contractual Requirements</u>                                                                                                                                                                                                                                                                                                                    |      |          |           |             |
| 1.1                     | Contractual Requirements: Allow for all contractual obligations in accordance with the NEC3 Engineering and Construction Contract (ECC), including the provision and maintenance of all required performance securities, guarantees, insurances, bonds, warranties, and statutory compliance for the full duration of the Contract                 | sum  | 1        |           |             |
|                         | <b>Establishment of Facilities on Site</b>                                                                                                                                                                                                                                                                                                         |      |          |           |             |
|                         | <b>Facilities for the Contractor</b>                                                                                                                                                                                                                                                                                                               |      |          |           |             |
| 1.2                     | Offices and storage sheds                                                                                                                                                                                                                                                                                                                          | sum  | 1        |           |             |
| 1.3                     | Ablution and latrine facilities                                                                                                                                                                                                                                                                                                                    | sum  | 1        |           |             |
| 1.4                     | Tools and equipment                                                                                                                                                                                                                                                                                                                                | sum  | 1        |           |             |
| 1.5                     | Water supplies, electric power and communications                                                                                                                                                                                                                                                                                                  | sum  | 1        |           |             |
| 1.6                     | Dealing with water                                                                                                                                                                                                                                                                                                                                 | sum  | 1        |           |             |
| 1.7                     | Access                                                                                                                                                                                                                                                                                                                                             | sum  | 1        |           |             |
| 1.8                     | Plant                                                                                                                                                                                                                                                                                                                                              | sum  | 1        |           |             |
|                         | <b>Other Fixed-charge Obligations:</b>                                                                                                                                                                                                                                                                                                             |      |          |           |             |
| 1.9                     | Survey, setting out and preparation of as-built drawings                                                                                                                                                                                                                                                                                           | sum  | 1        |           |             |
| 1.10                    | Health and Safety Compliance                                                                                                                                                                                                                                                                                                                       | sum  | 1        |           |             |
| 1.11                    | Environmental management                                                                                                                                                                                                                                                                                                                           | sum  | 1        |           |             |
|                         | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                                                                                                                             |      |          |           |             |

| PRELIMINARY AND GENERAL |                                                                                  |       |          |           |             |
|-------------------------|----------------------------------------------------------------------------------|-------|----------|-----------|-------------|
| ITEM                    | DESCRIPTION                                                                      | UNIT  | QUANTITY | RATE<br>R | AMOUNT<br>R |
|                         | <b>BROUGHT FORWARD</b>                                                           |       |          |           |             |
| 1.12                    | Security                                                                         | sum   | 1        |           |             |
| 1.13                    | Removal of Site Establishment                                                    | sum   | 1        |           |             |
| 1.14                    | Plant                                                                            | sum   | 1        |           |             |
|                         |                                                                                  |       |          |           |             |
| 2                       | <b>TIME-RELATED ITEMS</b>                                                        |       |          |           |             |
|                         | Operation and maintenance of facilities on the Site for duration of construction |       |          |           |             |
|                         | <b><u>Facilities for the Engineer</u></b>                                        |       |          |           |             |
| 2.1                     | Survey assistants and materials                                                  | Month | 11       |           |             |
|                         | <b><u>Facilities for the Contractor</u></b>                                      |       |          |           |             |
| 2.2                     | Offices and storage sheds                                                        | Month | 11       |           |             |
| 2.3                     | Ablution and latrine facilities                                                  | Month | 11       |           |             |
| 2.4                     | Tools and equipment                                                              | Month | 11       |           |             |
| 2.5                     | Water supplies, electric power and communications                                | Month | 11       |           |             |
| 2.6                     | Dealing with water (Sub-clause 5.5)                                              | Month | 11       |           |             |
| 2.7                     | Access (Sub-clause 5.8)                                                          | Month | 11       |           |             |
| 2.8                     | Plant                                                                            | Month | 11       |           |             |
|                         | <b>Supervision</b>                                                               |       |          |           |             |
| 2.9                     | Supervision for duration of construction                                         | Month | 11       |           |             |
|                         | <b>Other time-related obligations</b>                                            |       |          |           |             |
| 2.10                    | Compliance Occupational Health and Safety Act and Construction Regulations       | Month | 11       |           |             |
| 2.11                    | Compliance to Environmental Management Plan                                      | Month | 11       |           |             |
|                         | <b>CARRIED FORWARD TO SUMMARY</b>                                                |       |          |           | 0,00        |

| ITEM     | DESCRIPTION                                                                                                                                                                                                                                                                                                               | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|-----------|-------------|
|          | <b>PORT OF CAPE TOWN</b>                                                                                                                                                                                                                                                                                                  |                |          |           |             |
| <b>B</b> | <b>SUPPLY AND INSTALLATION OF SMART METERS</b>                                                                                                                                                                                                                                                                            |                |          |           |             |
| 1.1      | Investigations and site assessment (Refer to WI Clauses 4.3)                                                                                                                                                                                                                                                              | sum            | 1        |           |             |
| 1.2      | Survey and Ground-Penetrating Radar (GPR) Scans on the route for any potential underground services                                                                                                                                                                                                                       | m <sup>2</sup> | 31250    |           |             |
|          | <b>SITE CLEARANCE, SITEWORKS, ETC.</b>                                                                                                                                                                                                                                                                                    |                |          |           |             |
|          | <b>Site Clearance</b>                                                                                                                                                                                                                                                                                                     |                |          |           |             |
| 1.3      | Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth                                                                                                                                                                                                        | m <sup>2</sup> | 2500     |           |             |
|          | <b>Earthworks</b>                                                                                                                                                                                                                                                                                                         |                |          |           |             |
| 1.4      | Excavate and backfill where depth is not exceeding 2m deep (600mm x 600mm x 600mm)                                                                                                                                                                                                                                        | m <sup>3</sup> | 53       |           |             |
|          | <b>SUPPLY AND INSTALLATION OF SMART WATER METERS</b>                                                                                                                                                                                                                                                                      |                |          |           |             |
|          | <b>Below Ground Installation</b><br>Supply, install, test and commission smart water meters and shall be configured for measurement of water consumption (KL), alarm notification for high flow set points and trigger night flow analysis                                                                                |                |          |           |             |
|          | <b>METER No. 01 Replacement of the meter including associated components</b><br><b>Meter size: 200mm, existing pipe material is unknown</b>                                                                                                                                                                               |                |          |           |             |
| 2,1      | Decommission and remove the existing above installation.                                                                                                                                                                                                                                                                  | No.            | 1        |           |             |
| 2,2      | Supply and install a 200mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                         | No.            | 1        |           |             |
| 2,3      | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                                                                                                                                      | m              | 8        |           |             |
| 2,4      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. Link the meter on both the billing server and the new Utilites Management System Link the meter on both the billing server and the new Utilites Management System | No.            | 1        |           |             |
|          | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                                                                                                    |                |          |           |             |
| 7        |                                                                                                                                                                                                                                                                                                                           |                |          |           |             |

| ITEM | DESCRIPTION                                                                                                                                                                                                                                                                                                               | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|      | <b>BROUGHT FORWARD</b>                                                                                                                                                                                                                                                                                                    |      |          |           |             |
|      | <b>METER No. 02 Replacement of the meter including associated components<br/>Meter size: 200mm, existing pipe material is unknown</b>                                                                                                                                                                                     |      |          |           |             |
| 3,1  | Decommission and remove the existing above installation.                                                                                                                                                                                                                                                                  | No.  | 1        |           |             |
| 3,2  | Supply and install a 200mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                         | No.  | 1        |           |             |
| 3,3  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                                                                                                                                      | m    | 8        |           |             |
| 3,4  | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. Link the meter on both the billing server and the new Utilites Management System Link the meter on both the billing server and the new Utilites Management System | No.  | 1        |           |             |
|      | <b>METER No. 03 Installation of Automatic Meter Reading Device</b>                                                                                                                                                                                                                                                        |      |          |           |             |
| 4,1  | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. Link the meter on both the billing server and the new Utilites Management System Link the meter on both the billing server and the new Utilites Management System | No.  | 1        |           |             |
|      | <b>METER No. 04 Installation of Automatic Meter Reading Device</b>                                                                                                                                                                                                                                                        |      |          |           |             |
| 5,1  | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. Link the meter on both the billing server and the new Utilites Management System Link the meter on both the billing server and the new Utilites Management System | No.  | 1        |           |             |
|      | <b>METER No. 05 Installation of Automatic Meter Reading Device</b>                                                                                                                                                                                                                                                        |      |          |           |             |
| 6,1  | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. Link the meter on both the billing server and the new Utilites Management System Link the meter on both the billing server and the new Utilites Management System | No.  | 1        |           |             |
|      | <b>METER No. 06 Installation of Automatic Meter Reading Device</b>                                                                                                                                                                                                                                                        |      |          |           |             |
| 7,1  | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. Link the meter on both the billing server and the new Utilites Management System Link the meter on both the billing server and the new Utilites Management System | No.  | 1        |           |             |
|      | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                                                                                                    |      |          |           |             |
| 8    |                                                                                                                                                                                                                                                                                                                           |      |          |           |             |

| ITEM     | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|          | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
|          | <b>Replacement of Existing Water Meters</b>                                                                                                             |      |          |           |             |
| 8        | <b>NPA House out building (Plan room &amp; toilet)</b>                                                                                                  |      |          |           |             |
| 8,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 8,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 8,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 8,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 8,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 8,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| 9        | <b>Security hut - A Berth</b>                                                                                                                           |      |          |           |             |
| 9,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 9,2      | Supply and install a new 20 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 9,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 9,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 9,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 9,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| 10       | <b>Corner A &amp; B Berth tunnel.</b>                                                                                                                   |      |          |           |             |
| 10,1     | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 10,2     | Supply and install a new 20 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 10,3     | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 10,4     | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 10,5     | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 10,6     | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|          | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>9</b> |                                                                                                                                                         |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>11</b> | <b>Ferro-marine - A Berth - Ablution</b>                                                                                                                |      |          |           |             |
| 11,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 11,2      | Supply and install a new 20 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 11,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 11,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 11,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 11,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>12</b> | <b>Ferro-marine - A Berth - Admin office</b>                                                                                                            |      |          |           |             |
| 12,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 12,2      | Supply and install a new 20 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 12,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 12,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 12,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 12,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>13</b> | <b>NPA House</b>                                                                                                                                        |      |          |           |             |
| 13,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 13,2      | Supply and install a new 150 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 13,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 13,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 13,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 13,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |
| <u>10</u> |                                                                                                                                                         |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>14</b> | <b>A Berth area.</b>                                                                                                                                    |      |          |           |             |
| 14,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 14,2      | Supply and install a new 20 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 14,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 14,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 14,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 14,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>15</b> | <b>Corporate Affairs - B Berth</b>                                                                                                                      |      |          |           |             |
| 15,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 15,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 15,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 15,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 15,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 15,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>16</b> | <b>IT - Opp Corp Affrs - vacant</b>                                                                                                                     |      |          |           |             |
| 16,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 16,2      | Supply and install a new 25 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 16,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 16,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 16,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 16,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |
|           |                                                                                                                                                         |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>17</b> | <b>Training Centre</b>                                                                                                                                  |      |          |           |             |
| 17,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 17,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 17,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 17,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 17,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 17,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>18</b> | <b>Fresh Produce Term. (in manhole on B/C Berth)</b>                                                                                                    |      |          |           |             |
| 18,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 18,2      | Supply and install a new 25 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 18,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 18,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 18,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 18,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>19</b> | <b>Fresh Produce Term. (in manhole on B/C Berth)</b>                                                                                                    |      |          |           |             |
| 19,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 19,2      | Supply and install a new 80 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 19,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 19,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 19,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 19,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>12</b> |                                                                                                                                                         |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>20</b> | <b>Fresh Produce Terminals Cape Town.</b>                                                                                                               |      |          |           |             |
| 20,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 20,2      | Supply and install a new 150 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 20,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 20,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 20,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 20,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>21</b> | <b>Fresh Produce Terminals Cape Town. (On balcony)</b>                                                                                                  |      |          |           |             |
| 21,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 21,2      | Supply and install a new 150 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 21,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 21,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 21,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 21,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>22</b> | <b>B-C Berth (Tunnel - sprinkler system) - FPT</b>                                                                                                      |      |          |           |             |
| 22,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 22,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 22,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 22,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 22,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 22,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>23</b> | <b>Fresh Produce Term. (Against wall- inside D Shed)</b>                                                                                                |      |          |           |             |
| 23,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 23,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 23,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 23,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 23,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 23,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>24</b> | <b>Long Line Tuna Corporation (pty) Ltd</b>                                                                                                             |      |          |           |             |
| 24,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 24,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 24,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 24,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 24,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 24,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>25</b> | <b>Portside Stevedoring Services offices.</b>                                                                                                           |      |          |           |             |
| 25,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 25,2      | Supply and install a new 40 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 25,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 25,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 25,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 25,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>14</b> |                                                                                                                                                         |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>26</b> | <b>SA Police / Dept.of Public Works</b>                                                                                                                 |      |          |           |             |
| 26,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 26,2      | Supply and install a new 80 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 26,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 26,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 26,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 26,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>27</b> | <b>South Arm Rd Security building</b>                                                                                                                   |      |          |           |             |
| 27,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 27,2      | Supply and install a new 80 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 27,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 27,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 27,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 27,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>28</b> | <b>CCC Municipal water meter at Dock Road.</b>                                                                                                          |      |          |           |             |
| 28,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 28,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 28,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 28,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 28,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 28,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |
| 15        |                                                                                                                                                         |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>29</b> | <b>Transnet Projects RME (Bruce)</b>                                                                                                                    |      |          |           |             |
| 29,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 29,2      | Supply and install a new 25 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 29,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 29,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 29,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 29,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>30</b> | <b>Svitzer Wijsmuller (inside Filing room)</b>                                                                                                          |      |          |           |             |
| 30,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 30,2      | Supply and install a new 25 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 30,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 30,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 30,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 30,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>31</b> | <b>Svitzer Wijsmuller</b>                                                                                                                               |      |          |           |             |
| 31,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 31,2      | Supply and install a new 25 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 31,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 31,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 31,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 31,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>16</b> |                                                                                                                                                         |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>32</b> | <b>Bid freight.</b>                                                                                                                                     |      |          |           |             |
| 32,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 32,2      | Supply and install a new 25 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 32,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 32,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 32,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 32,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>33</b> | <b>SA Stevedores</b>                                                                                                                                    |      |          |           |             |
| 33,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 33,2      | Supply and install a new 25 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 33,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 33,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 33,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 33,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>34</b> | <b>SA Stevedores / Lighthouse Martinet Ind.Eng.CC</b>                                                                                                   |      |          |           |             |
| 34,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 34,2      | Supply and install a new 200 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 34,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 34,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 34,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 34,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>35</b> | <b>Magmaster (Lighthouse) (INCOMING)</b>                                                                                                                |      |          |           |             |
| 35,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 35,2      | Supply and install a new 200 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 35,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 35,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 35,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 35,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>36</b> | <b>Magmaster (Lighthouse) (REVERSE)</b>                                                                                                                 |      |          |           |             |
| 36,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 36,2      | Supply and install a new 200 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 36,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 36,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 36,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 36,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>37</b> | <b>Magmaster (Lighthouse) (NETT INCOMING)</b>                                                                                                           |      |          |           |             |
| 37,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 37,2      | Supply and install a new 40 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 37,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 37,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 37,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 37,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |
| 18        |                                                                                                                                                         |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>38</b> | <b>Lighthouse Services</b>                                                                                                                              |      |          |           |             |
| 38,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 38,2      | Supply and install a new 40 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 38,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 38,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 38,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 38,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>39</b> | <b>SA Stevedores (Melfra)</b>                                                                                                                           |      |          |           |             |
| 39,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 39,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 39,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 39,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 39,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 39,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>40</b> | <b>Robben Marine / SA Stevedores</b>                                                                                                                    |      |          |           |             |
| 40,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 40,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 40,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 40,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 40,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 40,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>19</b> |                                                                                                                                                         |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>41</b> | <b>Safbulk (pty) ltd</b>                                                                                                                                |      |          |           |             |
| 41,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 41,2      | Supply and install a new 25 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 41,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 41,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 41,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 41,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>42</b> | <b>Atlotech (pty) ltd - offices</b>                                                                                                                     |      |          |           |             |
| 42,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 42,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 42,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 42,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 42,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 42,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>43</b> | <b>Atlotech (pty) ltd - workshop</b>                                                                                                                    |      |          |           |             |
| 43,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 43,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 43,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 43,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 43,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 43,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           | R -         |
| 20        |                                                                                                                                                         |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>44</b> | <b>Mission to seamen in SA</b>                                                                                                                          |      |          |           |             |
| 44,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 44,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 44,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 44,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 44,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 44,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>45</b> | <b>Electrical workshop</b>                                                                                                                              |      |          |           |             |
| 45,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 45,2      | Supply and install a new 40 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 45,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 45,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 45,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 45,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>46</b> | <b>Elect. Depot Mess &amp; Ablution.</b>                                                                                                                |      |          |           |             |
| 46,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 46,2      | Supply and install a new 25 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 46,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 46,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 46,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 46,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           | R -         |
| <u>21</u> |                                                                                                                                                         |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>47</b> | <b>Berthing Office</b>                                                                                                                                  |      |          |           |             |
| 47,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 47,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 47,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 47,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 47,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 47,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>48</b> | <b>P&amp;O Ports Nationwide Cargo Terminal SA (pty) Ltd.</b>                                                                                            |      |          |           |             |
| 48,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 48,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 48,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 48,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 48,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 48,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>49</b> | <b>Cowrie place (MPT) - Bon 1</b>                                                                                                                       |      |          |           |             |
| 49,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 49,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 49,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 49,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 49,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 49,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>50</b> | <b>Cowrie place (MPT) - Bon 1</b>                                                                                                                       |      |          |           |             |
| 50,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 50,2      | Supply and install a new 20 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 50,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 50,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 50,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 50,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>51</b> | <b>Ship Society of SA / Port Services (pty) Ltd - Bon 1</b>                                                                                             |      |          |           |             |
| 51,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 51,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 51,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 51,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 51,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 51,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>52</b> | <b>Christelike Seemans Organisasie - D Mast Bon 1</b>                                                                                                   |      |          |           |             |
| 52,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 52,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 52,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 52,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 52,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 52,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           | R -         |
| 24        |                                                                                                                                                         |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>53</b> | <b>Marine Operations Manager - Dock Master Bon 1</b>                                                                                                    |      |          |           |             |
| 53,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 53,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 53,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 53,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 53,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 53,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>54</b> | <b>Dockland</b>                                                                                                                                         |      |          |           |             |
| 54,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 54,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 54,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 54,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 54,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 54,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>55</b> | <b>Control Point 26 (Spoornet)</b>                                                                                                                      |      |          |           |             |
| 55,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 55,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 55,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 55,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 55,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 55,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           | R -         |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>56</b> | <b>Security Hut (Heerengracht Entrance)</b>                                                                                                             |      |          |           |             |
| 56,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 56,2      | Supply and install a new 25 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 56,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 56,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 2        |           |             |
| 56,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 2        |           |             |
| 56,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>57</b> | <b>Maritime Training (Ex Creche)</b>                                                                                                                    |      |          |           |             |
| 57,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 57,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 57,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 57,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 57,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 57,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>58</b> | <b>Spoornet (Heerengracht Entrance)</b>                                                                                                                 |      |          |           |             |
| 58,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 58,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 58,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 58,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 58,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 58,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>59</b> | <b>Die Evangelie aan die seelui.</b>                                                                                                                    |      |          |           |             |
| 59,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 59,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 59,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 59,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 2        |           |             |
| 59,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 2        |           |             |
| 59,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>60</b> | <b>Training Centre for Seamen.</b>                                                                                                                      | No.  | 1        |           |             |
| 60,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 60,2      | Supply and install a new 20 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 60,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 60,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 60,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 60,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>61</b> | <b>Eastern deli</b>                                                                                                                                     |      |          |           |             |
| 61,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 61,2      | Supply and install a new 20 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 61,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 61,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 61,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 61,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>27</b> |                                                                                                                                                         |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>62</b> | <b>SHEQ building</b>                                                                                                                                    |      |          |           |             |
| 62,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 62,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 62,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 62,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 62,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 62,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>63</b> | <b>Pirow St. Security building</b>                                                                                                                      |      |          |           |             |
| 63,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 63,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 63,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 63,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 63,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 63,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>64</b> | <b>E-Berth Shed ( Cold Store)</b>                                                                                                                       |      |          |           |             |
| 64,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 64,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 64,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 64,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 64,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 64,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD TO SUMMARY</b>                                                                                                                       |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           | R -         |
| <b>65</b> | <b>E-Berth Shed (Passenger Terminal)</b>                                                                                                                |      |          |           |             |
| 65,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 4        |           |             |
| 65,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 4        |           |             |
| 65,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 4        |           |             |
| 65,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 4        |           |             |
| 65,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 4        |           |             |
| 65,6      | Test and commission the installation                                                                                                                    | No.  | 4        |           |             |
| <b>66</b> | <b>F-Berth Security bldg.</b>                                                                                                                           |      |          |           |             |
| 66,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 66,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 66,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 66,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 66,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 66,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>67</b> | <b>Weighbridge (F Berth)</b>                                                                                                                            |      |          |           |             |
| 67,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 67,2      | Supply and install a new 20 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 67,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 67,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 67,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 67,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD TO SUMMARY</b>                                                                                                                       |      |          |           |             |
| <b>28</b> |                                                                                                                                                         |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           | R -         |
| <b>68</b> | <b>Duty Free Shop</b>                                                                                                                                   |      |          |           |             |
| 68,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 68,2      | Supply and install a new 20 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 68,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 68,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 68,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 68,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>69</b> | <b>Heribi House</b>                                                                                                                                     |      |          |           |             |
| 69,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 69,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 69,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 69,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 69,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 69,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>70</b> | <b>SA Stevedores (Port Services) - ex gardener bldg</b>                                                                                                 |      |          |           |             |
| 70,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 70,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 70,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 70,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 70,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 70,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD TO SUMMARY</b>                                                                                                                       |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           | R -         |
| <b>71</b> | <b>Combi Terminal bldg.</b>                                                                                                                             |      |          |           |             |
| 71,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 71,2      | Supply and install a new 20 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 71,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 71,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 71,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 71,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>72</b> | <b>G-Berth Shed (New meter)</b>                                                                                                                         |      |          |           |             |
| 72,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 72,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 72,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 72,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 72,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 72,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>73</b> | <b>G-Berth Shed (Against inside wall)</b>                                                                                                               |      |          |           |             |
| 73,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 73,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 73,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 73,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 73,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 73,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD TO SUMMARY</b>                                                                                                                       |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>74</b> | <b>G-Berth mess &amp; ablution.</b>                                                                                                                     |      |          |           |             |
| 74,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 74,2      | Supply and install a new 20 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 74,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 74,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 74,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 74,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>75</b> | <b>G-Berth Quay office</b>                                                                                                                              |      |          |           |             |
| 75,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 75,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 75,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 75,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 75,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 75,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>76</b> | <b>H-Berth Security kiosk</b>                                                                                                                           |      |          |           |             |
| 76,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 76,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 76,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 76,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 76,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 76,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD TO SUMMARY</b>                                                                                                                       |      |          |           |             |
| <b>28</b> |                                                                                                                                                         |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>77</b> | <b>H-Berth Shed</b>                                                                                                                                     |      |          |           |             |
| 77,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 3        |           |             |
| 77,2      | Supply and install a new 25 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 3        |           |             |
| 77,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 3        |           |             |
| 77,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 3        |           |             |
| 77,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 3        |           |             |
| 77,6      | Test and commission the installation                                                                                                                    | No.  | 3        |           |             |
| <b>78</b> | <b>J-Berth mess &amp; ablution</b>                                                                                                                      |      |          |           |             |
| 78,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 78,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 78,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 78,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 78,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 78,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>79</b> | <b>J-Berth Shed</b>                                                                                                                                     |      |          |           |             |
| 79,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 2        |           |             |
| 79,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 2        |           |             |
| 79,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 2        |           |             |
| 79,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 2        |           |             |
| 79,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 2        |           |             |
| 79,6      | Test and commission the installation                                                                                                                    | No.  | 2        |           |             |
|           | <b>CARRIED FORWARD TO SUMMARY</b>                                                                                                                       |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>80</b> | <b>J-Berth store &amp; Toilets</b>                                                                                                                      |      |          |           |             |
| 80,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 80,2      | Supply and install a new 20 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 80,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 80,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 80,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 80,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>81</b> | <b>Operations Rail to rail control block offices</b>                                                                                                    |      |          |           |             |
| 81,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 81,2      | Supply and install a new 25 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 81,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 81,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 81,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 81,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>82</b> | <b>Forklift depot</b>                                                                                                                                   |      |          |           |             |
| 82,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 82,2      | Supply and install a new 20 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 82,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 82,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 82,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 82,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD TO SUMMARY</b>                                                                                                                       |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>83</b> | <b>L-Berth Mess &amp; Ablution bldg</b>                                                                                                                 |      |          |           |             |
| 83,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 83,2      | Supply and install a new 20 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 83,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 83,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 83,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 83,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>84</b> | <b>L-Berth Security bldg.</b>                                                                                                                           |      |          |           |             |
| 84,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 84,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 84,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 84,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 84,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 84,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>85</b> | <b>J-Berth Security kiosk</b>                                                                                                                           |      |          |           |             |
| 85,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 85,2      | Supply and install a new 80 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 85,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 85,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 85,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 85,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD TO SUMMARY</b>                                                                                                                       |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>86</b> | <b>Commercial Cold Store (Duncan Dock) (pty) Ltd</b>                                                                                                    |      |          |           |             |
| 86,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 86,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 86,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 86,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 86,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 86,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>87</b> | <b>SAS Unities M-Berth</b>                                                                                                                              |      |          |           |             |
| 87,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 2        |           |             |
| 87,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 2        |           |             |
| 87,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 2        |           |             |
| 87,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 2        |           |             |
| 87,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 2        |           |             |
| 87,6      | Test and commission the installation                                                                                                                    | No.  | 2        |           |             |
| <b>88</b> | <b>Security hut (M-Berth)</b>                                                                                                                           |      |          |           |             |
| 88,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 88,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 88,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 88,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 88,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 88,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD TO SUMMARY</b>                                                                                                                       |      |          |           |             |
| <b>28</b> |                                                                                                                                                         |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>89</b> | <b>Boss marine</b>                                                                                                                                      |      |          |           |             |
| 89,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 89,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 89,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 89,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 89,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 89,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>90</b> | <b>Resource Ballast</b>                                                                                                                                 |      |          |           |             |
| 90,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 90,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 90,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 90,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 90,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 90,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>91</b> | <b>RCYC Water supply to ships.</b>                                                                                                                      |      |          |           |             |
| 91,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 91,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 91,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 91,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 91,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 91,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD TO SUMMARY</b>                                                                                                                       |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>92</b> | <b>RCYC (inside repair area)</b>                                                                                                                        |      |          |           |             |
| 92,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 92,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 92,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 92,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 92,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 92,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>93</b> | <b>RCYC (entrance - inside)</b>                                                                                                                         |      |          |           |             |
| 93,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 93,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 93,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 93,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 93,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 93,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>94</b> | <b>RCYC (entrance - outside)</b>                                                                                                                        |      |          |           |             |
| 94,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 94,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 94,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 94,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 94,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 94,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD TO SUMMARY</b>                                                                                                                       |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>95</b> | <b>RCYC (kitchen area)</b>                                                                                                                              |      |          |           |             |
| 95,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 95,2      | Supply and install a new 25 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 95,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 95,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 95,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 95,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>96</b> | <b>Sailing School (RCYC)</b>                                                                                                                            |      |          |           |             |
| 96,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 96,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 96,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 96,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 96,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 96,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>97</b> | <b>International Yacht Brokers Cape (pty) Ltd</b>                                                                                                       |      |          |           |             |
| 97,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 97,2      | Supply and install a new 150 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 97,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 97,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 97,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 97,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD TO SUMMARY</b>                                                                                                                       |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>98</b>  | <b>Spoornet (opposite RCYC)</b>                                                                                                                         |      |          |           |             |
| 98,1       | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 98,2       | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 98,3       | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 98,4       | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 98,5       | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 98,6       | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>99</b>  | <b>Globe Engineering Works (pty) Ltd</b>                                                                                                                |      |          |           |             |
| 99,1       | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 99,2       | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 99,3       | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 99,4       | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 99,5       | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 99,6       | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>100</b> | <b>Misplon bridge Security building</b>                                                                                                                 |      |          |           |             |
| 100,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 100,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 100,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 100,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 100,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 100,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD TO SUMMARY</b>                                                                                                                       |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>101</b> | <b>Misplon bridge Security building</b>                                                                                                                 |      |          |           |             |
| 101,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 101,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 101,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 101,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 101,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 101,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>102</b> | <b>JJ van Greunen</b>                                                                                                                                   |      |          |           |             |
| 102,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 102,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 102,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 102,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 102,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 102,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>103</b> | <b>De Beers</b>                                                                                                                                         |      |          |           |             |
| 103,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 103,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 103,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 103,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 103,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 103,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>104</b> | <b>Harbour Weld</b>                                                                                                                                     |      |          |           |             |
| 104,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 104,2      | Supply and install a new 20 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 104,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 104,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 104,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 104,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>105</b> | <b>Fusion Hydraulics CC</b>                                                                                                                             |      |          |           |             |
| 105,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 105,2      | Supply and install a new 20 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 105,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 105,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 105,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 105,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>106</b> | <b>MRH</b>                                                                                                                                              |      |          |           |             |
| 106,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 106,2      | Supply and install a new 20 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 106,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 106,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 106,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 106,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>107</b> | <b>NNA</b>                                                                                                                                              |      |          |           |             |
| 107,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 107,2      | Supply and install a new 20 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 107,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 107,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 107,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 107,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>108</b> | <b>SGB Scaffolding</b>                                                                                                                                  |      |          |           |             |
| 108,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 108,2      | Supply and install a new 20 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 108,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 108,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 108,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 108,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           | R -         |
| <b>109</b> | <b>Hazard Marine CC</b>                                                                                                                                 |      |          |           |             |
| 109,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 109,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 109,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 109,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 109,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 109,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>110</b> | <b>Marine manager CC Propnet</b>                                                                                                                        |      |          |           |             |
| 110,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 110,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 110,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 110,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 110,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 110,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>111</b> | <b>Quantum leap</b>                                                                                                                                     |      |          |           |             |
| 111,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 111,2      | Supply and install a new 20 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 111,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 111,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 111,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 111,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>112</b> | <b>Cape Diving (Pty) Ltd</b>                                                                                                                            |      |          |           |             |
| 112,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 112,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 112,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 112,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 112,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 112,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>113</b> | <b>NPA Staff SDD ablution (Grant Walker-Dockmaster)</b>                                                                                                 |      |          |           |             |
| 113,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 113,2      | Supply and install a new 25 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 113,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 113,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 113,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 113,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>114</b> | <b>Dock Master's office</b>                                                                                                                             |      |          |           |             |
| 114,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 114,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 114,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 114,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 114,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 114,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>115</b> | <b>ALBATROSS (trevshan)</b>                                                                                                                             |      |          |           |             |
| 115,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 115,2      | Supply and install a new 25 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 115,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 115,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 115,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 115,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>116</b> | <b>Globe Engineering (office block &amp; Ablution).</b>                                                                                                 |      |          |           |             |
| 116,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 116,2      | Supply and install a new 25 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 116,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 116,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 116,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 116,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>117</b> | <b>Supply pipe for lessees in SSD area.</b>                                                                                                             |      |          |           |             |
| 117,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 117,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 117,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 117,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 117,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 117,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>118</b> | <b>Security hut SSD boom entrance</b>                                                                                                                   |      |          |           |             |
| 118,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 118,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 118,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 118,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 118,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 118,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>119</b> | <b>The Pure Cane Molasses Co.</b>                                                                                                                       |      |          |           |             |
| 119,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 119,2      | Supply and install a new 80 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 119,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 119,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 119,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 119,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>120</b> | <b>Elekt. Werkwinkel</b>                                                                                                                                |      |          |           |             |
| 120,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 120,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 120,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 120,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 120,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 120,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>121</b> | <b>Taipei Liaison office</b>                                                                                                                            |      |          |           |             |
| 121,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 121,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 121,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 121,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 121,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 121,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>122</b> | <b>South East Marine services (pty) Ltd</b>                                                                                                             |      |          |           |             |
| 122,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 122,2      | Supply and install a new 25 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 122,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 122,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 122,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 122,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>123</b> | <b>Nautilus (pty) Ltd</b>                                                                                                                               |      |          |           |             |
| 123,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 3        |           |             |
| 123,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 3        |           |             |
| 123,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 3        |           |             |
| 123,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 3        |           |             |
| 123,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 3        |           |             |
| 123,6      | Test and commission the installation                                                                                                                    | No.  | 3        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>124</b> | <b>Marine Slops (pty) Ltd</b>                                                                                                                           |      |          |           |             |
| 124,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 124,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 124,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 124,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 124,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 124,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>125</b> | <b>Albatross Offshore Services</b>                                                                                                                      |      |          |           |             |
| 125,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 125,2      | Supply and install a new 20 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 125,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 125,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 125,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 125,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>126</b> | <b>To be confirmed</b>                                                                                                                                  |      |          |           |             |
| 126,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 126,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 126,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 126,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 126,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 126,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>127</b> | <b>Elgin Brown Hamer (pty) ltd</b>                                                                                                                      |      |          |           |             |
| 127,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 127,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 127,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 127,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 127,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 127,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>128</b> | <b>Security hut SSDb</b>                                                                                                                                |      |          |           |             |
| 128,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 128,2      | Supply and install a new 100 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 128,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 128,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 128,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 128,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>129</b> | <b>Watermain feeding Landing Wall.</b>                                                                                                                  |      |          |           |             |
| 129,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 129,2      | Supply and install a new 80 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 129,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 129,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 129,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 129,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>130</b> | <b>Crossberth Cold Stores (PTY) LTD</b>                                                                                                                 |      |          |           |             |
| 130,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 130,2      | Supply and install a new 80 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 130,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 130,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 130,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 130,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>131</b> | <b>Crossberth Cold Stores (PTY) LTD</b>                                                                                                                 |      |          |           |             |
| 131,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 131,2      | Supply and install a new 25 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 131,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 131,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 131,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 131,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>132</b> | <b>Globe Engineering Works (pty) Ltd</b>                                                                                                                |      |          |           |             |
| 132,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 132,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 132,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 132,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 132,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 132,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>133</b> | <b>Feedline to Caltex area.</b>                                                                                                                         |      |          |           |             |
| 133,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 133,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 133,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 133,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 133,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 133,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>134</b> | <b>Security hut Tanker basin</b>                                                                                                                        |      |          |           |             |
| 134,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 134,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 134,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 134,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 134,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 134,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>135</b> | <b>Astron Energy (PTY) LTD</b>                                                                                                                          |      |          |           |             |
| 135,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 135,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 135,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 135,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 135,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 135,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>136</b> | <b>BP, Caltex, SA Energy Co, Shell (JBS)</b>                                                                                                            |      |          |           |             |
| 136,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 136,2      | Supply and install a new 20 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 136,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 136,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 136,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 136,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>137</b> | <b>Fire Dept. Tanker basin 2 - NPA</b>                                                                                                                  |      |          |           |             |
| 137,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 137,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 137,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 137,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 137,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 137,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>138</b> | <b>Fire Dept. (Steel scrap yard - Reclaimed Area).</b>                                                                                                  |      |          |           |             |
| 138,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 138,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 138,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 138,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 138,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 138,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>139</b> | <b>Astron Energy (PTY) LTD</b>                                                                                                                          |      |          |           |             |
| 139,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 2        |           |             |
| 139,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 2        |           |             |
| 139,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 2        |           |             |
| 139,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 2        |           |             |
| 139,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 2        |           |             |
| 139,6      | Test and commission the installation                                                                                                                    | No.  | 2        |           |             |
| <b>140</b> | <b>Pump room on Eastern Mole No.2</b>                                                                                                                   |      |          |           |             |
| 140,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 140,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 140,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 140,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 140,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 140,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>141</b> | <b>Mess &amp; Ablution on Eastern Mole No.2.</b>                                                                                                        |      |          |           |             |
| 141,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 141,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 141,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 141,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 141,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 141,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>142</b> | <b>Toilet on Eastern Mole No.2.</b>                                                                                                                     |      |          |           |             |
| 142,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 142,2      | Supply and install a new 150 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 142,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 142,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 142,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 142,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>143</b> | <b>Telkom SA Ltd</b>                                                                                                                                    |      |          |           |             |
| 143,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 143,2      | Supply and install a new 25 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 143,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 143,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 143,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 143,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>144</b> | <b>Standpipe TAP</b>                                                                                                                                    |      |          |           |             |
| 144,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 144,2      | Supply and install a new 25 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 144,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 144,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 144,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 144,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>145</b> | <b>FFS</b>                                                                                                                                              |      |          |           |             |
| 145,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 145,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 145,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 145,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 145,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 145,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>146</b> | <b>Cape Town Bulk Storage (pty) Ltd FFS</b>                                                                                                             |      |          |           |             |
| 146,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 146,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 146,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 146,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 146,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 146,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>147</b> | <b>Cape Town Bulk Storage (pty) Ltd</b>                                                                                                                 |      |          |           |             |
| 147,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 147,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 147,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 147,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 147,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 147,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>148</b> | <b>Elliott Basin security bldg</b>                                                                                                                      |      |          |           |             |
| 148,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 148,2      | Supply and install a new 100 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 148,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 148,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 148,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 148,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>149</b> | <b>Dorbyl Marine (pty) Ltd.</b>                                                                                                                         |      |          |           |             |
| 149,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 149,2      | Supply and install a new 80 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 149,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 149,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 149,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 149,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>150</b> | <b>Dorbyl Marine (pty) Ltd (right next to workshop)</b>                                                                                                 |      |          |           |             |
| 150,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 150,2      | Supply and install a new 80 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 150,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 150,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 150,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 150,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>151</b> | <b>Dorbyl Marine (pty) ltd (workshop) (inside building)</b>                                                                                             |      |          |           |             |
| 151,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 151,2      | Supply and install a new 80 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 151,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 151,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 151,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 151,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>152</b> | <b>Globe Engineering (domestic main)</b>                                                                                                                |      |          |           |             |
| 152,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 152,2      | Supply and install a new 25 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 152,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 152,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 152,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 152,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>153</b> | <b>Globe Engineering</b>                                                                                                                                |      |          |           |             |
| 153,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 153,2      | Supply and install a new 100 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 153,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 153,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 153,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 153,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>154</b> | <b>Elliott Basin ring feed meter</b>                                                                                                                    |      |          |           |             |
| 154,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 154,2      | Supply and install a new 80 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 154,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 154,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 154,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 154,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>155</b> | <b>Indo Atlantic Fishing (SHIPPING)</b>                                                                                                                 |      |          |           |             |
| 155,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 155,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 155,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 155,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 155,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 155,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>156</b> | <b>Theodore Luis Camara</b>                                                                                                                             |      |          |           |             |
| 156,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 156,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 156,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 156,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 156,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 156,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>157</b> | <b>Mechanical workshop</b>                                                                                                                              |      |          |           |             |
| 157,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 157,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 157,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 157,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 157,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 157,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>158</b> | <b>Shop 24</b>                                                                                                                                          |      |          |           |             |
| 158,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 158,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 158,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 158,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 158,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 158,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| 1,16       | Supply and install the latest Microsoft SQL server (permanent license)                                                                                  | No.  | 2        |           |             |
| <b>159</b> | <b>Shop 24 mess &amp; ablution for general workers.</b>                                                                                                 |      |          |           |             |
| 159,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 159,2      | Supply and install a new 25 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 159,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 159,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 159,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 159,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>160</b> | <b>Farocean marine (Damen Shipping)</b>                                                                                                                 |      |          |           |             |
| 160,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 160,2      | Supply and install a new 25 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 160,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 160,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 160,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 160,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>161</b> | <b>Bassticks</b>                                                                                                                                        |      |          |           |             |
| 161,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 161,2      | Supply and install a new 25 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 161,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 161,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 161,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 161,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>162</b> | <b>Damen Shipping (Back yard).</b>                                                                                                                      |      |          |           |             |
| 162,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 162,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 162,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 162,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 162,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 162,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>163</b> | <b>Panama Jacks (pty) ltd</b>                                                                                                                           |      |          |           |             |
| 163,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 163,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 163,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 163,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 163,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 163,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>164</b> | <b>Damen</b>                                                                                                                                            |      |          |           |             |
| 164,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 164,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 164,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 164,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 164,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 164,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>165</b> | <b>Royal Cape Yacht Club (meter that supplies yachts)</b>                                                                                               |      |          |           |             |
| 165,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 2        |           |             |
| 165,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 2        |           |             |
| 165,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 2        |           |             |
| 165,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 2        |           |             |
| 165,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 2        |           |             |
| 165,6      | Test and commission the installation                                                                                                                    | No.  | 2        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>166</b> | <b>Security hut Quay 500</b>                                                                                                                            |      |          |           |             |
| 166,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 166,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 166,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 166,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 166,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 166,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>167</b> | <b>Quay 500 Pollution.</b>                                                                                                                              |      |          |           |             |
| 167,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 167,2      | Supply and install a new 150 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 167,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 167,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 167,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 167,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>168</b> | <b>Ro-Ro Pier (Quay 500) Mountain side</b>                                                                                                              |      |          |           |             |
| 168,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 168,2      | Supply and install a new 150 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 168,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 168,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 168,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 168,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>169</b> | <b>WBHO Work site (Panama Jacks)</b>                                                                                                                    |      |          |           |             |
| 169,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 169,2      | Supply and install a new 20 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 169,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 169,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 169,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 169,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>170</b> | <b>Damen Shipping (Panama Jacks side)</b>                                                                                                               |      |          |           |             |
| 170,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 170,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 170,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 170,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 170,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 170,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>171</b> | <b>WBHO Container (Medite bldg.)</b>                                                                                                                    |      |          |           |             |
| 171,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 171,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 171,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 171,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 171,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 171,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>172</b> | <b>Civil Store under BS bridge</b>                                                                                                                      |      |          |           |             |
| 172,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 172,2      | Supply and install a new 150 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 172,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 172,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 172,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 172,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>173</b> | <b>Crest Chemicals</b>                                                                                                                                  |      |          |           |             |
| 173,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 173,2      | Supply and install a new 150 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 173,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 173,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 173,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 173,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>174</b> | <b>Lusitania Frozen Goods Container Road</b>                                                                                                            |      |          |           |             |
| 174,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 174,2      | Supply and install a new 25 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 174,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 174,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 174,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 174,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>175</b> | <b>R.J.Sauthey (Scaffolding)</b>                                                                                                                        |      |          |           |             |
| 175,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 175,2      | Supply and install a new 25 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 175,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 175,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 175,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 175,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>176</b> | <b>Old Container link (Grindrod Logistics) (SACD)</b>                                                                                                   |      |          |           |             |
| 176,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 176,2      | Supply and install a new 150 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 176,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 176,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 176,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 176,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>177</b> | <b>Caltex service station Marine Drive/Astron Energy (PTY) LTD</b>                                                                                      |      |          |           |             |
| 177,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 177,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 177,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 177,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 177,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 177,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>178</b> | <b>TCP (Ismail)</b>                                                                                                                                     |      |          |           |             |
| 178,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 178,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 178,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 178,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 178,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 178,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>179</b> | <b>Security gate NPA Paarden Eiland</b>                                                                                                                 |      |          |           |             |
| 179,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 179,2      | Supply and install a new 25 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 179,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 179,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 179,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 179,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>180</b> | <b>Joint Bunkering Services Container Road</b>                                                                                                          |      |          |           |             |
| 180,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 180,2      | Supply and install a new 25 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 180,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 180,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 180,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 180,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>181</b> | <b>Shmidthauser</b>                                                                                                                                     |      |          |           |             |
| 181,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 181,2      | Supply and install a new 40 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 181,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 181,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 181,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 181,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>182</b> | <b>Y &amp; L Frozen Fish Enterprises Container Road</b>                                                                                                 |      |          |           |             |
| 182,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 182,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 182,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 182,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 182,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 182,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>183</b> | <b>Y &amp; L Frozen Fish Enterprises Container Road</b>                                                                                                 |      |          |           |             |
| 183,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 183,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 183,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 183,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 183,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 183,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>184</b> | <b>M.M.Hilario</b>                                                                                                                                      |      |          |           |             |
| 184,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 184,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 184,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 184,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 184,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 184,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>185</b> | <b>BSD Weigh bridge</b>                                                                                                                                 |      |          |           |             |
| 185,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 185,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 185,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 185,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 185,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 185,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>186</b> | <b>BSD Weigh bridge</b>                                                                                                                                 |      |          |           |             |
| 186,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 186,2      | Supply and install a new 40 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 186,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 186,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 186,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 186,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>187</b> | <b>Container Terminal drivers mess &amp; ablution. ( Reverse)</b>                                                                                       |      |          |           |             |
| 187,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 187,2      | Supply and install a new 40 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 187,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 187,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 187,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 187,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>188</b> | <b>Container Terminal drivers mess &amp; ablution.</b>                                                                                                  |      |          |           |             |
| 188,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 188,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 188,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 188,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 188,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 188,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>189</b> | <b>Security bldg (Quay 700)</b>                                                                                                                         |      |          |           |             |
| 189,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 189,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 189,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 189,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 189,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 189,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>190</b> | <b>WBHO Site office (Quay 700)</b>                                                                                                                      |      |          |           |             |
| 190,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 190,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 190,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 190,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 190,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 190,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>191</b> | <b>SAPO ski-cabin</b>                                                                                                                                   |      |          |           |             |
| 191,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 191,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 191,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 191,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 191,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 191,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>192</b> | <b>Vehicle Testing Centre (old) (Kershaw 073 257 1736)</b>                                                                                              |      |          |           |             |
| 192,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 192,2      | Supply and install a new 100 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 192,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 192,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 192,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 192,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>193</b> | <b>Vehicle Repair Centre (Freight Dynamics)</b>                                                                                                         |      |          |           |             |
| 193,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 193,2      | Supply and install a new 25 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 193,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 193,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 193,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 193,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>194</b> | <b>Container Fruit Terminal (inside Fire Control room)</b>                                                                                              |      |          |           |             |
| 194,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 194,2      | Supply and install a new 80 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 194,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 194,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 194,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 194,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>195</b> | <b>Helicopter Africa (pty) Ltd</b>                                                                                                                      |      |          |           |             |
| 195,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 195,2      | Supply and install a new 80 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 195,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 195,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 195,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 195,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>196</b> | <b>Makhulu</b>                                                                                                                                          |      |          |           |             |
| 196,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 196,2      | Supply and install a new 80 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 196,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 196,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 196,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 196,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>197</b> | <b>Blastrite (pty) ltd</b>                                                                                                                              |      |          |           |             |
| 197,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 197,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 197,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 197,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 197,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 197,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>198</b> | <b>Road to Rail building</b>                                                                                                                            |      |          |           |             |
| 198,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 198,2      | Supply and install a new 20 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 198,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 198,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 198,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 198,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           | R -         |
| <b>199</b> | <b>Spoornet (Bay Road)</b>                                                                                                                              |      |          |           |             |
| 199,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 199,2      | Supply and install a new 20 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 199,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 199,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 199,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 199,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>200</b> | <b>Tryang Trading Import &amp; Export (Pty) Ltd</b>                                                                                                     |      |          |           |             |
| 200,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 200,2      | Supply and install a new 20 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 200,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 200,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 200,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 200,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>201</b> | <b>Optimal Maintenance services CC</b>                                                                                                                  |      |          |           |             |
| 201,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 201,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 201,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 201,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 201,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 201,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>202</b> | <b>Raw Engineering CC</b>                                                                                                                               |      |          |           |             |
| 202,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 202,2      | Supply and install a new 25 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 202,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 202,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 202,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 202,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>203</b> | <b>Helicopter Heli Pad Cold Storage</b>                                                                                                                 |      |          |           |             |
| 203,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 203,2      | Supply and install a new 150 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 203,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 203,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 203,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 203,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>204</b> | <b>Transeva Shipping Services (Pty) Ltd</b>                                                                                                             |      |          |           |             |
| 204,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 204,2      | Supply and install a new 150 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 204,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 204,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 204,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 204,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>205</b> | <b>PIP Site main meter (Entrance)</b>                                                                                                                   |      |          |           |             |
| 205,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 205,2      | Supply and install a new 150 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 205,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 205,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 205,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 205,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>206</b> | <b>SACD PIP Site</b>                                                                                                                                    |      |          |           |             |
| 206,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 206,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 206,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 206,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 206,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 206,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>207</b> | <b>Eskom PIP site</b>                                                                                                                                   |      |          |           |             |
| 207,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 207,2      | Supply and install a new 300 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 207,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 207,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 207,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 207,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>208</b> | <b>East Coast Containers</b>                                                                                                                            |      |          |           |             |
| 208,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 208,2      | Supply and install a new 200 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 208,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 208,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 208,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 208,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>209</b> | <b>CCC Municipal water meter at Marine Drive.</b>                                                                                                       |      |          |           |             |
| 209,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 209,2      | Supply and install a new 200 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 209,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 209,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 209,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 209,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>210</b> | <b>Magmaster</b>                                                                                                                                        |      |          |           |             |
| 210,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 3        |           |             |
| 210,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 3        |           |             |
| 210,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 3        |           |             |
| 210,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 3        |           |             |
| 210,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 3        |           |             |
| 210,6      | Test and commission the installation                                                                                                                    | No.  | 3        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>211</b> | <b>Two Oceans Boat Sales Marine Drive</b>                                                                                                               |      |          |           |             |
| 211,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 3        |           |             |
| 211,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 3        |           |             |
| 211,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 3        |           |             |
| 211,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 3        |           |             |
| 211,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 3        |           |             |
| 211,6      | Test and commission the installation                                                                                                                    | No.  | 3        |           |             |
| <b>212</b> | <b>Province Log Cabins Marine Drive</b>                                                                                                                 |      |          |           |             |
| 212,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 212,2      | Supply and install a new 100 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 212,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 212,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 212,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 212,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>213</b> | <b>RME is occupying a site next to House of Cabin.</b>                                                                                                  |      |          |           |             |
| 213,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 213,2      | Supply and install a new 100 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 213,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 213,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 213,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 213,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>214</b> | <b>Shop 17</b>                                                                                                                                          |      |          |           |             |
| 214,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 214,2      | Supply and install a new 100 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 214,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 214,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 214,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 214,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>215</b> | <b>Shop 17</b>                                                                                                                                          |      |          |           |             |
| 215,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 215,2      | Supply and install a new 150 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 215,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 215,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 215,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 215,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>216</b> | <b>Civil Depot watermain</b>                                                                                                                            |      |          |           |             |
| 216,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 216,2      | Supply and install a new 150 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 216,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 216,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 216,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 216,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>217</b> | <b>Roro Control office &amp; abl. BSD</b>                                                                                                               |      |          |           |             |
| 217,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 217,2      | Supply and install a new 20 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 217,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 217,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 217,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 217,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>218</b> | <b>Old SACD site (TCP - Bert)</b>                                                                                                                       |      |          |           |             |
| 218,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 218,2      | Supply and install a new 80 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 218,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 218,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 218,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 218,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>219</b> | <b>New Container Entrance to Terminal</b>                                                                                                               |      |          |           |             |
| 219,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 219,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 219,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 219,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 219,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 219,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>220</b> | <b>Old Mediterranean Shipping building</b>                                                                                                              |      |          |           |             |
| 220,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 220,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 220,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 220,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 220,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 220,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>221</b> | <b>Quay 501 Container control office &amp; abl. BSD</b>                                                                                                 |      |          |           |             |
| 221,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 221,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 221,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 221,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 221,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 221,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>222</b> | <b>Quay 601 Container control office &amp; abl. BSD</b>                                                                                                 |      |          |           |             |
| 222,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 222,2      | Supply and install a new 20 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 222,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 222,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 222,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 222,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>223</b> | <b>Quay 602 Container control office &amp; abl. BSD</b>                                                                                                 |      |          |           |             |
| 223,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 223,2      | Supply and install a new 20 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 223,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 223,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 223,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 223,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>224</b> | <b>Quay 603 Container control office &amp; abl. BSD</b>                                                                                                 |      |          |           |             |
| 224,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 224,2      | Supply and install a new 20 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 224,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 224,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 224,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 224,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>225</b> | <b>Quay 604 Container control office &amp; abl. BSD</b>                                                                                                 |      |          |           |             |
| 225,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 225,2      | Supply and install a new 20 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 225,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 225,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 225,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 225,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>226</b> | <b>Quay 602 Container control office &amp; abl. BSD seaside</b>                                                                                         |      |          |           |             |
| 226,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 226,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 226,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 226,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 226,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 226,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>227</b> | <b>Container Terminal building</b>                                                                                                                      |      |          |           |             |
| 227,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 227,2      | Supply and install a new 150 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 227,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 227,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 227,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 227,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>228</b> | <b>Chevron (Tanker Basin Cross Berth)</b>                                                                                                               |      |          |           |             |
| 228,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 228,2      | Supply and install a new 150 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 228,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 228,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 228,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 228,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>229</b> | <b>Joint Bunkering Services (TBXB)</b>                                                                                                                  |      |          |           |             |
| 229,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 229,2      | Supply and install a new 100 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.            | No.  | 1        |           |             |
| 229,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 229,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 229,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 229,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>230</b> | <b>Quay 502 Container control office &amp; abl. BSD</b>                                                                                                 |      |          |           |             |
| 230,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 230,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 230,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 230,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 230,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 230,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>231</b> | <b>WBHO</b>                                                                                                                                             |      |          |           |             |
| 231,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 2        |           |             |
| 231,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 2        |           |             |
| 231,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 2        |           |             |
| 231,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 2        |           |             |
| 231,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 2        |           |             |
| 231,6      | Test and commission the installation                                                                                                                    | No.  | 2        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>232</b> | <b>PIP Site (S a fence &amp; Gate)</b>                                                                                                                  |      |          |           |             |
| 232,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 232,2      | Supply and install a new 15 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 232,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 232,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 232,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 232,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>233</b> | <b>PIP site (Christopher Clement)</b>                                                                                                                   |      |          |           |             |
| 233,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 233,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 233,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 233,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 233,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 233,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>234</b> | <b>Proticon Containers</b>                                                                                                                              |      |          |           |             |
| 234,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 234,2      | Supply and install a new 20 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 234,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 234,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 234,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 234,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>235</b> | <b>Q 501 (Security) Robben Eiland</b>                                                                                                                   |      |          |           |             |
| 235,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 235,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 235,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 235,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 235,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 235,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>236</b> | <b>PIP SITE NEW SECURITY BLDG</b>                                                                                                                       |      |          |           |             |
| 236,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 236,2      | Supply and install a new 20 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 236,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 236,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 236,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 236,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>237</b> | <b>DAMEN SPRAY ROOM</b>                                                                                                                                 |      |          |           |             |
| 237,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 237,2      | Supply and install a new 20 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 237,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 237,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 237,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 237,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>238</b> | <b>Etlin International (pty) ltd (Cape Cold Storage) Heli pad</b>                                                                                       |      |          |           |             |
| 238,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 238,2      | Supply and install a new 20 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 238,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 238,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 238,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 238,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>239</b> | <b>CONTAINER X-RAY</b>                                                                                                                                  |      |          |           |             |
| 239,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 239,2      | Supply and install a new 20 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 239,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 239,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 239,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 239,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>240</b> | <b>SJW CIVILS</b>                                                                                                                                       |      |          |           |             |
| 240,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 240,2      | Supply and install a new 20 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 240,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 240,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 240,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 240,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>241</b> | <b>Servest Marine</b>                                                                                                                                   |      |          |           |             |
| 241,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 241,2      | Supply and install a new 20 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 241,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 241,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 241,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 241,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>242</b> | <b>Shouters Kiosk Blue Store</b>                                                                                                                        |      |          |           |             |
| 242,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 242,2      | Supply and install a new 20 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 242,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 242,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 242,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 242,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>243</b> | <b>Washing Bay TPT</b>                                                                                                                                  |      |          |           |             |
| 243,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 243,2      | Supply and install a new 20 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 243,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 243,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 243,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 243,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>244</b> | <b>De Beers @ L-Berth</b>                                                                                                                               |      |          |           |             |
| 244,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 244,2      | Supply and install a new 20 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 244,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 244,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 244,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 244,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>245</b> | <b>Construction @ Eastern Mole</b>                                                                                                                      |      |          |           |             |
| 245,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 245,2      | Supply and install a new 20 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 245,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 245,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 245,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 245,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>246</b> | <b>Next to old Fire</b>                                                                                                                                 |      |          |           |             |
| 246,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 246,2      | Supply and install a new 20 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 246,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 246,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 246,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 246,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD</b>                                                                                                                                  |      |          |           |             |

| ITEM       | DESCRIPTION                                                                                                                                             | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|            | <b>BROUGHT FORWARD</b>                                                                                                                                  |      |          |           |             |
| <b>247</b> | <b>FFS New Buildings</b>                                                                                                                                |      |          |           |             |
| 247,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 2        |           |             |
| 247,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 2        |           |             |
| 247,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 2        |           |             |
| 247,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 2        |           |             |
| 247,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 2        |           |             |
| 247,6      | Test and commission the installation                                                                                                                    | No.  | 2        |           |             |
| <b>248</b> | <b>Security bldg (Quay 500) new meter</b>                                                                                                               |      |          |           |             |
| 248,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 248,2      | Supply and install a new 20 mm water meter compatible with AMR technology including all necessary fittings, couplings, sealants etc.                    | No.  | 1        |           |             |
| 248,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 248,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 248,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 248,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
| <b>249</b> | <b>Ams Construction (Ocean Road)</b>                                                                                                                    |      |          |           |             |
| 249,1      | Decommission and remove the existing water meter.                                                                                                       | No.  | 1        |           |             |
| 249,2      | Supply and install a new 50 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc.             | No.  | 1        |           |             |
| 249,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication. | No.  | 1        |           |             |
| 249,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                            | No.  | 1        |           |             |
| 249,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                   | No.  | 1        |           |             |
| 249,6      | Test and commission the installation                                                                                                                    | No.  | 1        |           |             |
|            | <b>CARRIED FORWARD TO SUMMARY CPT</b>                                                                                                                   |      |          |           |             |

| ITEM     | DESCRIPTION                                                                                                                                                                                                                                                      | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|          | <b>SUPPLY AND INSTALLATION OF SMART ELECTRICITY METERS</b>                                                                                                                                                                                                       |      |          |           |             |
| <b>C</b> | <b>Replacement of energy meters in various locations (Three Phase)</b>                                                                                                                                                                                           |      |          |           |             |
|          | Supply, install, configure, test and commission Smart Electricity Meters for measurement of different electrical parameters listed elsewhere in the document including Active energy (kWh/MWh), Reactive energy (kVArh/MVArh), Apparent energy (kVAh/MVAh) etc., |      |          |           |             |
| 1,1      | Decommission and remove the existing Electricity Meters in various locations                                                                                                                                                                                     | No.  | 160      |           |             |
| 1,2      | Supply and Install Metering panels for substations.                                                                                                                                                                                                              | No.  | 36       |           |             |
| 1,3      | Supply, install and configure a new Smart Electricity Meter with all the necessary comms required (communication module, GSM antenna etc.),                                                                                                                      | No.  | 160      |           |             |
| 1,4      | Establish connectivity: Link the meters to the billing server and the new Utilities Management System, Create Accounts and apply the tariffs.                                                                                                                    | No.  | 160      |           |             |
| 1,5      | Test and commission the installation.                                                                                                                                                                                                                            | No.  | 160      |           |             |
|          | <b>CARRIED FORWARD TO SUMMARY CPT</b>                                                                                                                                                                                                                            |      |          |           |             |

| ITEM     | DESCRIPTION                                                                                                                                                                                                                                                                                                               | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|-----------|-------------|
| <b>D</b> | <b>COMMUNICATION</b>                                                                                                                                                                                                                                                                                                      |                |          |           |             |
| 1,1      | Supply and install signal repeaters to be linked to closest meters and gateway.                                                                                                                                                                                                                                           | No.            | 20       |           |             |
| 1,2      | Standalone Fibre Network - Design, supply, install and patch 48 pair single mode fibre optic cable (652D)                                                                                                                                                                                                                 | m              | 13000    |           |             |
| 1,3      | Excavate and backfill where depth is not exceeding 2m deep                                                                                                                                                                                                                                                                | m <sup>3</sup> | 2340     |           |             |
| 1,4      | Supply and install 110mm PVC pipe and chamber system for the fibre.                                                                                                                                                                                                                                                       | m              | 13000    |           |             |
| 1,5      | Reinstate existing surface and make good                                                                                                                                                                                                                                                                                  | m <sup>2</sup> | 3900     |           |             |
| 1,6      | Supply and install patch panels fully populated 48 pair with Lucent Connector (LC) patch leads                                                                                                                                                                                                                            | No.            | 15       |           |             |
| 1,7      | Supply, install and configure 24 ports managed enterprise network switches including routing and setting up VLANs                                                                                                                                                                                                         | No.            | 15       |           |             |
| 1,8      | Supply and install a 9U swing frame cabinet 900mm deep                                                                                                                                                                                                                                                                    | No.            | 10       |           |             |
| 1,9      | Design and construction of Manholes for fibre                                                                                                                                                                                                                                                                             | No.            | 10       |           |             |
| 1,10     | Supply, install and setup the servers                                                                                                                                                                                                                                                                                     | No.            | 2        |           |             |
| 1,11     | Splicing of Fibres                                                                                                                                                                                                                                                                                                        | No.            | 360      |           |             |
| 1,12     | OTDR Testing (Test and submit line losses)                                                                                                                                                                                                                                                                                | No.            | 360      |           |             |
| 1,13     | Supply, install, configure and commission a Firewall for LAN, ensure that old and new services going through the Firewall are reinstated. Setup DMZ and position a management workstation within DMZ                                                                                                                      | Sum            | 1        |           |             |
| 1,14     | Supply and install management workstation desktops and link to TNPA corporate network. Setup rules for management workstation and provide dashboards whilst second LAN on machine connects to Transnet Data Network. Management station needs to be on Transnet domain and have relative Transnet Policies applied to it. | No.            | 1        |           |             |
| 1,15     | Supply and install the latest Microsoft SQL server (permanent license)                                                                                                                                                                                                                                                    | No.            | 2        |           |             |
|          | <b>CARRIED FORWARD TO SUMMARY CPT</b>                                                                                                                                                                                                                                                                                     |                |          |           |             |
|          |                                                                                                                                                                                                                                                                                                                           |                |          |           |             |
| ITEM     | DESCRIPTION                                                                                                                                                                                                                                                                                                               | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
| <b>E</b> | <b>PROCUREMENT AND SUPPLY OF SPARES</b>                                                                                                                                                                                                                                                                                   |                |          |           |             |
| 1,1      | Smart automatic water meter reading devices                                                                                                                                                                                                                                                                               | No.            | 3        |           |             |
| 1,2      | Smart automatic energy meter reading devices                                                                                                                                                                                                                                                                              | No.            | 26       |           |             |
| 1,3      | Supply hand held automatic meter reading device (water & energy)                                                                                                                                                                                                                                                          | No.            | 2        |           |             |
|          | <b>CARRIED FORWARD TO SUMMARY CPT</b>                                                                                                                                                                                                                                                                                     |                |          |           |             |

| ITEM     | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                           | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
| <b>F</b> | <b>AUTOMATIC METER READING (AMR) SYSTEM AND SOFTWARE INTEGRATION</b>                                                                                                                                                                                                                                                                                                                                                                                  |      |          |           |             |
|          | <b>Metering gateways</b>                                                                                                                                                                                                                                                                                                                                                                                                                              |      |          |           |             |
| 1,1      | Supply, installation, configure and integrate the metering gateways onto the LAN and utilities management system for uploading water meter data. I                                                                                                                                                                                                                                                                                                    | No.  | 5        |           |             |
| 1,2      | <b>New Utilities Management System</b><br>Development, Programming and Software integration into the billing server, tariff setup, designing billing template and setting up billing accounts on billing server. Configure the server to send an Alert (SMS) to TNPA for abnormalities. Including linking all Port meters to new utilites management system. Provide license package. Develop an API and link it to the back end of IPMS and SAP ERP. | Sum  | 1        |           |             |
| 1,3      | Mapping the meters onto the Geographic Information System (GIS) showing the exact installation point, opening meter reading and the picture of the installation.                                                                                                                                                                                                                                                                                      | Sum  | 1        |           |             |
| 1,4      | Testing and commissioning of the software side both individu                                                                                                                                                                                                                                                                                                                                                                                          | Sum  | 1        |           |             |
| 1,5      | AMR Training for End Users                                                                                                                                                                                                                                                                                                                                                                                                                            | Sum  | 1        |           |             |
|          | <b>CARRIED FORWARD TO SUMMARY CPT</b>                                                                                                                                                                                                                                                                                                                                                                                                                 |      |          |           |             |

| PORT OF CAPE TOWN                      |                                                                         |        |
|----------------------------------------|-------------------------------------------------------------------------|--------|
|                                        | DESCRIPTION                                                             | AMOUNT |
| A                                      | PRELIMINARIES AND GENERALS                                              |        |
| B                                      | SUPPLY AND INSTALLATION OF SMART AUTOMATIC WATER METER READING DEVICES  |        |
| C                                      | SUPPLY AND INSTALLATION OF SMART AUTOMATIC ENERGY METER READING DEVICES |        |
| D                                      | COMMUNICATION                                                           |        |
| E                                      | PROCUREMENT AND SUPPLY OF SPARES                                        |        |
| F                                      | AUTOMATIC METER READING (AMR) SYSTEM AND SOFTWARE INTEGRATION           |        |
| TOTAL CARRIED FORWARD TO SUMMARY PAGE: |                                                                         |        |
|                                        |                                                                         |        |

| PRELIMINARY AND GENERAL |                                                                                                                                                                                                                                                                                                                                                    |      |          |           |             |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
| ITEM                    | DESCRIPTION                                                                                                                                                                                                                                                                                                                                        | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|                         | <b>PORT OF SALDANHA</b>                                                                                                                                                                                                                                                                                                                            |      |          |           |             |
|                         | <u>PREAMBLES</u>                                                                                                                                                                                                                                                                                                                                   |      |          |           |             |
|                         | Fixed preliminary items will be valuated and paid on a proven cost basis up to the total value<br><br>The tenderer is expected to understand the site, restrictions, and scope of work and price only the relevant items within the Preliminaries. All items priced will be assessed in relevance to the contract prior to any payments being made |      |          |           |             |
| <b>A</b>                | <b>FIXED-CHARGE ITEMS</b>                                                                                                                                                                                                                                                                                                                          |      |          |           |             |
|                         | <u>Contractual Requirements</u>                                                                                                                                                                                                                                                                                                                    |      |          |           |             |
| 1.1                     | Contractual Requirements: Allow for all contractual obligations in accordance with the NEC3 Engineering and Construction Contract (ECC), including the provision and maintenance of all required performance securities, guarantees, insurances, bonds, warranties, and statutory compliance for the full duration of the Contract.                | sum  | 1        |           |             |
|                         | <b>Establishment of Facilities on Site</b>                                                                                                                                                                                                                                                                                                         |      |          |           |             |
|                         | <b>Facilities for the Contractor</b>                                                                                                                                                                                                                                                                                                               |      |          |           |             |
| 1.2                     | Offices and storage sheds                                                                                                                                                                                                                                                                                                                          | sum  | 1        |           |             |
| 1.3                     | Ablution and latrine facilities                                                                                                                                                                                                                                                                                                                    | sum  | 1        |           |             |
| 1.4                     | Tools and equipment                                                                                                                                                                                                                                                                                                                                | sum  | 1        |           |             |
| 1.5                     | Water supplies, electric power and communications                                                                                                                                                                                                                                                                                                  | sum  | 1        |           |             |
| 1.6                     | Dealing with water                                                                                                                                                                                                                                                                                                                                 | sum  | 1        |           |             |
| 1.7                     | Access                                                                                                                                                                                                                                                                                                                                             | sum  | 1        |           |             |
| 1.8                     | Plant                                                                                                                                                                                                                                                                                                                                              | sum  | 1        |           |             |
|                         | <b>Other Fixed-charge Obligations:</b>                                                                                                                                                                                                                                                                                                             |      |          |           |             |
| 1.9                     | Survey, setting out and preparation of as-built drawings                                                                                                                                                                                                                                                                                           | sum  | 1        |           |             |
| 1.10                    | Health and Safety Compliance                                                                                                                                                                                                                                                                                                                       | sum  | 1        |           |             |
| 1.11                    | Environmental management                                                                                                                                                                                                                                                                                                                           | sum  | 1        |           |             |
|                         | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                                                                                                                             |      |          |           |             |

| PRELIMINARY AND GENERAL |                                                                                  |       |          |           |             |
|-------------------------|----------------------------------------------------------------------------------|-------|----------|-----------|-------------|
| ITEM                    | DESCRIPTION                                                                      | UNIT  | QUANTITY | RATE<br>R | AMOUNT<br>R |
|                         | <b>BROUGHT FORWARD</b>                                                           |       |          |           |             |
| 1.12                    | Security                                                                         | sum   | 1        |           |             |
| 1.13                    | Removal of Site Establishment                                                    | sum   | 1        |           |             |
| 1.14                    | Plant                                                                            | sum   | 1        |           |             |
|                         |                                                                                  |       |          |           |             |
| 2                       | <b>TIME-RELATED ITEMS</b>                                                        |       |          |           |             |
|                         | Operation and maintenance of facilities on the Site for duration of construction |       |          |           |             |
|                         | <b><u>Facilities for the Engineer</u></b>                                        |       |          |           |             |
| 2.1                     | Survey assistants and materials                                                  | Month | 10       |           |             |
|                         | <b><u>Facilities for the Contractor</u></b>                                      |       |          |           |             |
| 2.2                     | Offices and storage sheds                                                        | Month | 10       |           |             |
| 2.3                     | Ablution and latrine facilities                                                  | Month | 10       |           |             |
| 2.4                     | Tools and equipment                                                              | Month | 10       |           |             |
| 2.5                     | Water supplies, electric power and communications                                | Month | 10       |           |             |
| 2.6                     | Dealing with water (Sub-clause 5.5)                                              | Month | 10       |           |             |
| 2.7                     | Access (Sub-clause 5.8)                                                          | Month | 10       |           |             |
| 2.8                     | Plant                                                                            | Month | 10       |           |             |
|                         | <b><u>Supervision</u></b>                                                        |       |          |           |             |
| 2.9                     | Supervision for duration of construction                                         | Month | 10       |           |             |
|                         | <b><u>Other time-related obligations</u></b>                                     |       |          |           |             |
| 2.10                    | Compliance Occupational Health and Safety Act and Construction Regulations       | Month | 10       |           |             |
| 2.11                    | Compliance to Environmental Management Plan                                      | Month | 10       |           |             |
|                         | <b>CARRIED FORWARD TO SUMMARY</b>                                                |       |          |           |             |

| ITEM     | DESCRIPTION                                                                                                                                                                                                                                | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|-----------|-------------|
|          | <b>PORT OF SALDANHA</b>                                                                                                                                                                                                                    |                |          |           |             |
| <b>B</b> | <b>SUPPLY AND INSTALLATION OF SMART METERS</b>                                                                                                                                                                                             |                |          |           |             |
| 1.1      | Investigations and site assessment (Refer to WI Clauses 4.3)                                                                                                                                                                               | sum            | 1        |           |             |
| 1.2      | Survey and Ground-Penetrating Radar (GPR) Scans on the route for any potential underground services                                                                                                                                        | m <sup>2</sup> | 31250    |           |             |
|          | <b>SITE CLEARANCE, SITEWORKS, ETC.</b>                                                                                                                                                                                                     |                |          |           |             |
|          | <b>Site Clearance</b>                                                                                                                                                                                                                      |                |          |           |             |
| 1.3      | Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth                                                                                                                         | m <sup>2</sup> | 2500     |           |             |
|          | <b>Earthworks</b>                                                                                                                                                                                                                          |                |          |           |             |
| 1.4      | Excavate and backfill where depth is not exceeding 2m deep (600mm x 600mm x 600mm)                                                                                                                                                         | m <sup>3</sup> | 53       |           |             |
|          | <b>SUPPLY AND INSTALLATION OF SMART WATER METERS</b>                                                                                                                                                                                       |                |          |           |             |
|          | <b>Below Ground Installation</b><br>Supply, install, test and commission smart water meters and shall be configured for measurement of water consumption (KL), alarm notification for high flow set points and trigger night flow analysis |                |          |           |             |
|          | <b>METER No. 01 Replacement of the meter including associated components</b><br><b>Meter size: 300mm, existing pipe material is u-PVC</b>                                                                                                  |                |          |           |             |
| 2,1      | Decommission and remove the existing above installation.                                                                                                                                                                                   | No.            | 1        |           |             |
| 2,2      | Supply and install a 300mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                                                          | No.            | 1        |           |             |
| 2,3      | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                                                       | m              | 8        |           |             |
| 2,4      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                                                                    | No.            | 1        |           |             |
| 2,5      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                                                                               | No.            | 1        |           |             |
| 2,6      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                                                                      | No.            | 1        |           |             |
| 2,7      | Test and commission the installation                                                                                                                                                                                                       | No.            | 1        |           |             |
|          | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                     |                |          |           |             |

| ITEM | DESCRIPTION                                                                                                                                                                       | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|      | <b>BROUGHT FORWARD</b>                                                                                                                                                            |      |          |           |             |
|      | <b>METER No. 02 Replacement of the meter including associated components<br/>Meter size: 75mm, existing pipe material is u-PVC</b>                                                |      |          |           |             |
| 3,1  | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 3,2  | Supply and install a 75mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.  | No.  | 1        |           |             |
| 3,3  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 3,4  | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 3,5  | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 3,6  | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 3,7  | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
| 3,8  | Supply and install a 160mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
|      | <b>METER No. 03 Replacement of the meter including associated components<br/>Meter size: 200mm, existing pipe material is u-PVC</b>                                               |      |          |           |             |
| 4,1  | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 4,2  | Supply and install a 200mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 4,3  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 4,4  | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 4,5  | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 4,6  | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 4,7  | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>CARRIED FORWARD</b>                                                                                                                                                            |      |          |           |             |

| ITEM | DESCRIPTION                                                                                                                                                                      | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|      | <b>BROUGHT FORWARD</b>                                                                                                                                                           |      |          |           |             |
|      | <b>METER No. 04 Replacement of the meter including associated components<br/>Meter size: 50mm, existing pipe material is u-PVC</b>                                               |      |          |           |             |
| 5,1  | Decommission and remove the existing above installation.                                                                                                                         | No.  | 1        |           |             |
| 5,2  | Supply and install a 50mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 5,3  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                             | m    | 8        |           |             |
| 5,4  | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                          | No.  | 1        |           |             |
| 5,5  | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                     | No.  | 1        |           |             |
| 5,6  | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                            | No.  | 1        |           |             |
| 5,7  | Test and commission the installation                                                                                                                                             | No.  | 1        |           |             |
|      | <b>METER No. 05 Replacement of the meter including associated components<br/>Meter size: 32mm, existing pipe material is Polycop</b>                                             |      |          |           |             |
| 6,1  | Decommission and remove the existing above installation.                                                                                                                         | No.  | 1        |           |             |
| 6,2  | Supply and install a 32mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 6,3  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                             | m    | 8        |           |             |
| 6,4  | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                          | No.  | 1        |           |             |
| 6,5  | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                     | No.  | 1        |           |             |
| 6,6  | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                            | No.  | 1        |           |             |
| 6,7  | Test and commission the installation                                                                                                                                             | No.  | 1        |           |             |
|      | <b>CARRIED FORWARD</b>                                                                                                                                                           |      |          |           |             |

| ITEM | DESCRIPTION                                                                                                                                                                      | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|      | <b>BROUGHT FORWARD</b>                                                                                                                                                           |      |          |           |             |
|      | <b>METER No. 06 Replacement of the meter including associated components<br/>Meter size: 32mm, existing pipe material is Polycop</b>                                             |      |          |           |             |
| 7,1  | Decommission and remove the existing above installation.                                                                                                                         | No.  | 1        |           |             |
| 7,2  | Supply and install a 32mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 7,3  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                             | m    | 8        |           |             |
| 7,4  | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                          | No.  | 1        |           |             |
| 7,5  | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                     | No.  | 1        |           |             |
| 7,6  | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                            | No.  | 1        |           |             |
| 7,7  | Test and commission the installation                                                                                                                                             | No.  | 1        |           |             |
|      | <b>METER No. 07 Replacement of the meter including associated components<br/>Meter size: 32mm, existing pipe material is Polycop</b>                                             |      |          |           |             |
| 8,1  | Decommission and remove the existing above installation.                                                                                                                         | No.  | 1        |           |             |
| 8,2  | Supply and install a 32mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 8,3  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                             | m    | 8        |           |             |
| 8,4  | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                          | No.  | 1        |           |             |
| 8,5  | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                     | No.  | 1        |           |             |
| 8,6  | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                            | No.  | 1        |           |             |
| 8,7  | Test and commission the installation                                                                                                                                             | No.  | 1        |           |             |
|      | <b>CARRIED FORWARD</b>                                                                                                                                                           |      |          |           |             |

| ITEM | DESCRIPTION                                                                                                                                                                       | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|      | <b>BROUGHT FORWARD</b>                                                                                                                                                            |      |          |           |             |
|      | <b>METER No. 08 Replacement of the meter including associated components<br/>Meter size: 200mm, existing pipe material is u-PVC</b>                                               |      |          |           |             |
| 9,1  | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 9,2  | Supply and install a 200mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 9,3  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 9,4  | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 9,5  | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 9,6  | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 9,7  | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>METER No. 09 Replacement of the meter including associated components<br/>Meter size: 75mm, existing pipe material is HDPE</b>                                                 |      |          |           |             |
| 10,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 10,2 | Supply and install a 75mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.  | No.  | 1        |           |             |
| 10,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 10,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 10,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 10,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 10,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>CARRIED FORWARD</b>                                                                                                                                                            |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                                                      | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                                           |      |          |           |             |
|           | <b>METER No. 10 Replacement of the meter including associated components<br/>Meter size: 75mm, existing pipe material is u-PVC</b>                                               |      |          |           |             |
| 11,1      | Decommission and remove the existing above installation.                                                                                                                         | No.  | 1        |           |             |
| 11,2      | Supply and install a 75mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 11,3      | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                             | m    | 8        |           |             |
| 11,4      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                          | No.  | 1        |           |             |
| 11,5      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                     | No.  | 1        |           |             |
| 11,6      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                            | No.  | 1        |           |             |
| 11,7      | Test and commission the installation                                                                                                                                             | No.  | 1        |           |             |
|           | <b>METER No. 11 Replacement of the meter including associated components<br/>Meter size: 22mm, existing pipe material is Polycop</b>                                             |      |          |           |             |
| 12,1      | Decommission and remove the existing above installation.                                                                                                                         | No.  | 1        |           |             |
| 12,2      | Supply and install a 22mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 12,3      | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                             | m    | 8        |           |             |
| 12,4      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                          | No.  | 1        |           |             |
| 12,5      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                     | No.  | 1        |           |             |
| 12,6      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                            | No.  | 1        |           |             |
| 12,7      | Test and commission the installation                                                                                                                                             | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                                           |      |          |           |             |
| <b>12</b> |                                                                                                                                                                                  |      |          |           |             |

| ITEM | DESCRIPTION                                                                                                                                                                       | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|      | <b>BROUGHT FORWARD</b>                                                                                                                                                            |      |          |           |             |
|      | <b>METER No. 14 Replacement of the meter including associated components<br/>Meter size: 160mm, existing pipe material is u-PVC</b>                                               |      |          |           |             |
| 13,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 13,2 | Supply and install a 160mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 13,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 13,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 13,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 13,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 13,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>METER No. 15 Replacement of the meter including associated components<br/>Meter size: 100mm, existing pipe material is u-PVC/HDPE</b>                                          |      |          |           |             |
| 14,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 14,2 | Supply and install a 100mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 14,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 14,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 14,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 14,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 14,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>CARRIED FORWARD</b>                                                                                                                                                            |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                                                       | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                                            |      |          |           |             |
|           | <b>METER NO. 18 Replacement of the meter including associated components<br/>Meter size: 150mm, existing pipe material is Asbestos Cement</b>                                     |      |          |           |             |
| 15,1      | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 15,2      | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 15,3      | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 15,4      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 15,5      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 15,6      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 15,7      | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|           | <b>METER NO. 19 Replacement of the meter including associated components<br/>Meter size: 100mm, existing pipe material is Asbestos Cement</b>                                     |      |          |           |             |
| 16,1      | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 16,2      | Supply and install a 100mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 16,3      | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 16,4      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 16,5      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 16,6      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 16,7      | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                                            |      |          |           |             |
| <b>14</b> |                                                                                                                                                                                   |      |          |           |             |

| ITEM | DESCRIPTION                                                                                                                                                                       | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|      | <b>BROUGHT FORWARD</b>                                                                                                                                                            |      |          |           |             |
|      | <b>METER NO. 20 Replacement of the meter including associated components<br/>Meter size: 160mm, existing pipe material is u-PVC</b>                                               |      |          |           |             |
| 17,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 17,2 | Supply and install a 160mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 17,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 17,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 17,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 17,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 17,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>METER NO. 21 Replacement of the meter including associated components<br/>Meter size: 50mm, existing pipe material is u-PVC</b>                                                |      |          |           |             |
| 18,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 18,2 | Supply and install a 50mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.  | No.  | 1        |           |             |
| 18,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 18,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 18,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 18,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 18,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>CARRIED FORWARD</b>                                                                                                                                                            |      |          |           |             |

| ITEM | DESCRIPTION                                                                                                                                                                       | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|      | <b>BROUGHT FORWARD</b>                                                                                                                                                            |      |          |           |             |
|      | <b>METER No. 22 Replacement of the meter including associated components<br/>Meter size: 75mm, existing pipe material is u-PVC</b>                                                |      |          |           |             |
| 19,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 19,2 | Supply and install a 75mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.  | No.  | 1        |           |             |
| 19,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 19,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 19,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 19,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 19,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>METER No. 23 Replacement of the meter including associated components<br/>Meter size: 160mm, existing pipe material is u-PVC</b>                                               |      |          |           |             |
| 20,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 20,2 | Supply and install a 160mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 20,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 20,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 20,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 20,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 20,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>CARRIED FORWARD</b>                                                                                                                                                            |      |          |           |             |

| ITEM | DESCRIPTION                                                                                                                                                                       | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|      | <b>BROUGHT FORWARD</b>                                                                                                                                                            |      |          |           |             |
|      | <b>METER No. 25 Replacement of the meter including associated components<br/>Meter size: 100mm, existing pipe material is Asbestos Cement</b>                                     |      |          |           |             |
| 21,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 21,2 | Supply and install a 100mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 21,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 21,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 21,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 21,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 21,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>METER No. 26 Replacement of the meter including associated components<br/>Meter size: 22mm, existing pipe material is Polycop</b>                                              |      |          |           |             |
| 22,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 22,2 | Supply and install a 22mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.  | No.  | 1        |           |             |
| 22,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 22,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 22,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 22,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 22,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>CARRIED FORWARD</b>                                                                                                                                                            |      |          |           |             |

| ITEM | DESCRIPTION                                                                                                                                                                       | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|      | <b>BROUGHT FORWARD</b>                                                                                                                                                            |      |          |           | R -         |
|      | <b>METER NO. 28 Replacement of the meter including associated components<br/>Meter size: 100mm, existing pipe material is Asbestos Cement</b>                                     |      |          |           |             |
| 23,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 23,2 | Supply and install a 100mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 23,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 23,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 23,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 23,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 23,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>METER No. 30 Replacement of the meter including associated components<br/>Meter size: 100mm, existing pipe material is Asbestos Cement</b>                                     |      |          |           |             |
| 24,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 24,2 | Supply and install a 100mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 24,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 24,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 24,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 24,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 24,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>CARRIED FORWARD</b>                                                                                                                                                            |      |          |           |             |

| ITEM | DESCRIPTION                                                                                                                                                                       | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|      | <b>BROUGHT FORWARD</b>                                                                                                                                                            |      |          |           |             |
|      | <b>METER No. 31 Replacement of the meter including associated components<br/>Meter size: 100mm, existing pipe material is u-PVC</b>                                               |      |          |           |             |
| 25,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 25,2 | Supply and install a 100mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 25,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 25,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 25,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 25,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 25,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>METER No. 32 Replacement of the meter including associated components<br/>Meter size: 75mm, existing pipe material is u-PVC</b>                                                |      |          |           |             |
| 26,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 26,2 | Supply and install a 75mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.  | No.  | 1        |           |             |
| 26,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 26,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 26,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 26,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 26,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>CARRIED FORWARD</b>                                                                                                                                                            |      |          |           |             |

| ITEM | DESCRIPTION                                                                                                                                                                       | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|      | <b>BROUGHT FORWARD</b>                                                                                                                                                            |      |          |           | R -         |
|      | <b>METER NO. 33 Replacement of the meter including associated components<br/>Meter size: 75mm, existing pipe material is u-PVC</b>                                                |      |          |           |             |
| 27,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 27,2 | Supply and install a 75mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.  | No.  | 1        |           |             |
| 27,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 27,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 27,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 27,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 27,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>METER NO. 35 Replacement of the meter including associated components<br/>Meter size: 200mm, existing pipe material is Galvanised Steel</b>                                    |      |          |           |             |
| 28,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 28,2 | Supply and install a 200mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 28,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 28,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 28,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 28,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 28,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>CARRIED FORWARD</b>                                                                                                                                                            |      |          |           |             |

| ITEM | DESCRIPTION                                                                                                                                                                       | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|      | <b>BROUGHT FORWARD</b>                                                                                                                                                            |      |          |           |             |
|      | <b>METER No. 36 Replacement of the meter including associated components<br/>Meter size: 150mm, existing pipe material is Asbestos Cement</b>                                     |      |          |           |             |
| 29,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 29,2 | Supply and install a 150mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 29,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 29,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 29,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 29,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 29,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>METER No. 37 Replacement of the meter including associated components<br/>Meter size: 75mm, existing pipe material is Asbestos Cement</b>                                      |      |          |           |             |
| 30,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 30,2 | Supply and install a 75mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.  | No.  | 1        |           |             |
| 30,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 30,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 30,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 30,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 30,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>CARRIED FORWARD</b>                                                                                                                                                            |      |          |           |             |

| ITEM | DESCRIPTION                                                                                                                                                                       | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|      | <b>BROUGHT FORWARD</b>                                                                                                                                                            |      |          |           |             |
|      | <b>METER NO. 40 Replacement of the meter including associated components<br/>Meter size: 100mm, existing pipe material is Asbestos Cement</b>                                     |      |          |           |             |
| 31,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 31,2 | Supply and install a 100mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 31,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 31,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 31,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 31,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 31,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>METER NO. 43 Replacement of the meter including associated components<br/>Meter size: 75mm, existing pipe material is Steel</b>                                                |      |          |           |             |
| 32,1 | Decommission and remove the existing above installation.                                                                                                                          | No.  | 1        |           |             |
| 32,2 | Supply and install a 75mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.  | No.  | 1        |           |             |
| 32,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                              | m    | 8        |           |             |
| 32,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                           | No.  | 1        |           |             |
| 32,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                      | No.  | 1        |           |             |
| 32,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                             | No.  | 1        |           |             |
| 32,7 | Test and commission the installation                                                                                                                                              | No.  | 1        |           |             |
|      | <b>CARRIED FORWARD</b>                                                                                                                                                            |      |          |           |             |

| ITEM | DESCRIPTION                                                                                                                                                                      | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|      | <b>BROUGHT FORWARD</b>                                                                                                                                                           |      |          |           | R -         |
|      | <b>METER No. 44 Replacement of the meter including associated components<br/>Meter size: 75mm, existing pipe material is Steel</b>                                               |      |          |           |             |
| 33,1 | Decommission and remove the existing above installation.                                                                                                                         | No.  | 1        |           |             |
| 33,2 | Supply and install a 75mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 33,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                             | m    | 8        |           |             |
| 33,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                          | No.  | 1        |           |             |
| 33,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                     | No.  | 1        |           |             |
| 33,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                            | No.  | 1        |           |             |
| 33,7 | Test and commission the installation                                                                                                                                             | No.  | 1        |           |             |
|      | <b>METER No. 45 Replacement of the meter including associated components<br/>Meter size: 75mm, existing pipe material is Steel</b>                                               |      |          |           |             |
| 34,1 | Decommission and remove the existing above installation.                                                                                                                         | No.  | 1        |           |             |
| 34,2 | Supply and install a 75mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 34,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                             | m    | 8        |           |             |
| 34,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                          | No.  | 1        |           |             |
| 34,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                     | No.  | 1        |           |             |
| 34,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                            | No.  | 1        |           |             |
| 34,7 | Test and commission the installation                                                                                                                                             | No.  | 1        |           |             |
|      | <b>CARRIED FORWARD</b>                                                                                                                                                           |      |          |           |             |

| ITEM | DESCRIPTION                                                                                                                                                                      | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|      | <b>BROUGHT FORWARD</b>                                                                                                                                                           |      |          |           |             |
|      | <b>METER No. 47 Replacement of the meter including associated components<br/>Meter size: 32mm, existing pipe material is Polycop</b>                                             |      |          |           |             |
| 35,1 | Decommission and remove the existing above installation.                                                                                                                         | No.  | 1        |           |             |
| 35,2 | Supply and install a 32mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 35,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                             | m    | 8        |           |             |
| 35,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                          | No.  | 1        |           |             |
| 35,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                     | No.  | 1        |           |             |
| 35,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                            | No.  | 1        |           |             |
| 35,7 | Test and commission the installation                                                                                                                                             | No.  | 1        |           |             |
|      | <b>METER NO. 49 Replacement of the meter including associated components<br/>Meter size: 75mm, existing pipe material is u-PVC</b>                                               |      |          |           |             |
| 36,1 | Decommission and remove the existing above installation.                                                                                                                         | No.  | 1        |           |             |
| 36,2 | Supply and install a 75mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 36,3 | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                             | m    | 8        |           |             |
| 36,4 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                          | No.  | 1        |           |             |
| 36,5 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                     | No.  | 1        |           |             |
| 36,6 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                            | No.  | 1        |           |             |
| 36,7 | Test and commission the installation                                                                                                                                             | No.  | 1        |           |             |
|      | <b>CARRIED FORWARD</b>                                                                                                                                                           |      |          |           |             |

| ITEM | DESCRIPTION                                                                                                                                                                                            | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|      | <b>BROUGHT FORWARD</b>                                                                                                                                                                                 |      |          |           |             |
|      | <b>Above Ground Installation</b>                                                                                                                                                                       |      |          |           |             |
|      | Supply, install, test and commission smart water meters and shall be configured for measurement of water consumption (KL), alarm notification for high flow set points and trigger night flow analysis |      |          |           |             |
|      | <b>METER No. 27 Replacement of the meter including associated components<br/>Meter size: 22mm, existing pipe material is Polycop</b>                                                                   |      |          |           |             |
| 37,1 | Decommission and remove the existing installation.                                                                                                                                                     | No.  | 1        |           |             |
| 37,2 | Supply and install a 22mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                       | No.  | 1        |           |             |
| 37,3 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                                | No.  | 1        |           |             |
| 37,4 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                                           | No.  | 1        |           |             |
| 37,5 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                                  | No.  | 1        |           |             |
| 37,6 | Test and commission the installation                                                                                                                                                                   | No.  | 1        |           |             |
|      | <b>METER No. 29 Replacement of the meter including associated components<br/>Meter size: 75mm, existing pipe material is Steel</b>                                                                     |      |          |           |             |
| 38,1 | Decommission and remove the existing installation.                                                                                                                                                     | No.  | 1        |           |             |
| 38,2 | Supply and install a 75mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                       | No.  | 1        |           |             |
| 38,3 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                                | No.  | 1        |           |             |
| 38,4 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                                           | No.  | 1        |           |             |
| 38,5 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                                  | No.  | 1        |           |             |
| 38,6 | Test and commission the installation                                                                                                                                                                   | No.  | 1        |           |             |
|      | <b>CARRIED FORWARD</b>                                                                                                                                                                                 |      |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                                                      | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                                           |      |          |           |             |
|           | <b>METER No. 46 Replacement of the meter including associated components<br/>Meter size: 75mm, existing pipe material is Steel</b>                                               |      |          |           |             |
| 39,1      | Decommission and remove the existing installation.                                                                                                                               | No.  | 1        |           |             |
| 39,2      | Supply and install a 75mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc. | No.  | 1        |           |             |
| 39,3      | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                          | No.  | 1        |           |             |
| 39,4      | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                     | No.  | 1        |           |             |
| 39,5      | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                            | No.  | 1        |           |             |
| 39,6      | Test and commission the installation                                                                                                                                             | No.  | 1        |           |             |
| 39,7      | Supply and install a 160mm In-line strainer, flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                          | No.  | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                                           |      |          |           |             |
| <b>27</b> |                                                                                                                                                                                  |      |          |           |             |

| ITEM  | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                             | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|-----------|-------------|
|       | <b>BROUGHT FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |
|       | <b>METER No. 13 Installation of New meter including associated components<br/>Meter size: 200mm, existing pipe material is u-PVC</b>                                                                                                                                                                                                                                                                                    |                |          |           |             |
| 40,1  | Proof trench and verify the pipe material, depth and pipe size before procuring any material for the installation.                                                                                                                                                                                                                                                                                                      | m <sup>3</sup> | 5        |           |             |
| 40,2  | Cutting off approximately 4.5m of pipe including fitting of flanges on both ends of exposed pipe as per drawings and specifications                                                                                                                                                                                                                                                                                     | m              | 4,5      |           |             |
| 40,3  | Construct a new water meter manhole with overall size 2.66m x 1.66m and varying depths not exceeding 2.53m deep including all necessary additional excavations, risk of collapse, blinding, manhole base, stone bedding, 230mm brickwork, backfilling, concrete cover slab, including breaking openings on both ends for new pipe and cart away of surplus material all in accordance with drawings and specifications. | No.            | 1        |           |             |
| 40,4  | Supply and install 200mm diameter steel pipes each approximately 1.4m in length, flanged on both ends and fitted on either end of manhole to existing flanged asbestos pipes and in new manholes including sealing off ends of manholes, support/thrust blocks, etc., gaskets, bolts, sealants etc.                                                                                                                     | No.            | 2        |           |             |
| 40,5  | Supply and install 200mm dia. spool pieces approximately 250mm in length flanged on both ends and fitted to meter, strainer & valve including all necessary, gaskets, bolts, sealants etc.                                                                                                                                                                                                                              | No.            | 2        |           |             |
| 40,6  | Supply and install a 200mm swing check valve flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 40,7  | Supply and install a 200mm In-line strainer, flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 40,8  | Supply and install a 200mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                       | No.            | 1        |           |             |
| 40,9  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                                                                                                                                                                                                                                    | m              | 8        |           |             |
| 40,10 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 40,11 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                                                                                                                                                                                                                                                            | No.            | 1        |           |             |
| 40,12 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                                                                                                                                                                                                                                                   | No.            | 1        |           |             |
| 40,13 | Test and commission the installation                                                                                                                                                                                                                                                                                                                                                                                    | No.            | 1        |           |             |
|       | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                             | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |
|           | <b>METER No. 16 Installation of New meter including associated components<br/>Meter size: 160mm, existing pipe material is u-PVC</b>                                                                                                                                                                                                                                                                                    |                |          |           |             |
| 41,1      | Proof trench and verify the pipe material, depth and pipe size before procuring any material for the installation.                                                                                                                                                                                                                                                                                                      | m <sup>3</sup> | 5        |           |             |
| 41,2      | Cutting off approximately 4.5m of pipe including fitting of flanges on both ends of exposed pipe as per drawings and specifications                                                                                                                                                                                                                                                                                     | m              | 4,5      |           |             |
| 41,3      | Construct a new water meter manhole with overall size 2.66m x 1.66m and varying depths not exceeding 2.53m deep including all necessary additional excavations, risk of collapse, blinding, manhole base, stone bedding, 230mm brickwork, backfilling, concrete cover slab, including breaking openings on both ends for new pipe and cart away of surplus material all in accordance with drawings and specifications. | No.            | 1        |           |             |
| 41,4      | Supply and install 160mm diameter steel pipes each approximately 1.4m in length, flanged on both ends and fitted on either end of manhole to existing flanged asbestos pipes and in new manholes including sealing off ends of manholes, support/thrust blocks, etc., gaskets, bolts, sealants etc.                                                                                                                     | No.            | 2        |           |             |
| 41,5      | Supply and install 160mm dia. spool pieces approximately 250mm in length flanged on both ends and fitted to meter, strainer & valve including all necessary, gaskets, bolts, sealants etc.                                                                                                                                                                                                                              | No.            | 2        |           |             |
| 41,6      | Supply and install a 160mm swing check valve flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 41,7      | Supply and install a 160mm In-line strainer, flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 41,8      | Supply and install a 160mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                       | No.            | 1        |           |             |
| 41,9      | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                                                                                                                                                                                                                                    | m              | 8        |           |             |
| 41,10     | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 41,11     | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                                                                                                                                                                                                                                                            | No.            | 1        |           |             |
| 41,12     | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                                                                                                                                                                                                                                                   | No.            | 1        |           |             |
| 41,13     | Test and commission the installation                                                                                                                                                                                                                                                                                                                                                                                    | No.            | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |
| <b>28</b> |                                                                                                                                                                                                                                                                                                                                                                                                                         |                |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                             | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |
|           | <b>METER No. 17 Installation of New meter including associated components<br/>Meter size: 160mm, existing pipe material is u-PVC</b>                                                                                                                                                                                                                                                                                    |                |          |           |             |
| 42,1      | Proof trench and verify the pipe material, depth and pipe size before procuring any material for the installation.                                                                                                                                                                                                                                                                                                      | m <sup>3</sup> | 5        |           |             |
| 42,2      | Cutting off approximately 4.5m of pipe including fitting of flanges on both ends of exposed pipe as per drawings and specifications                                                                                                                                                                                                                                                                                     | m              | 4,5      |           |             |
| 42,3      | Construct a new water meter manhole with overall size 2.66m x 1.66m and varying depths not exceeding 2.53m deep including all necessary additional excavations, risk of collapse, blinding, manhole base, stone bedding, 230mm brickwork, backfilling, concrete cover slab, including breaking openings on both ends for new pipe and cart away of surplus material all in accordance with drawings and specifications. | No.            | 1        |           |             |
| 42,4      | Supply and install 160mm diameter steel pipes each approximately 1.4m in length, flanged on both ends and fitted on either end of manhole to existing flanged asbestos pipes and in new manholes including sealing off ends of manholes, support/thrust blocks, etc., gaskets, bolts, sealants etc.                                                                                                                     | No.            | 2        |           |             |
| 42,5      | Supply and install 160mm dia. spool pieces approximately 250mm in length flanged on both ends and fitted to meter, strainer & valve including all necessary, gaskets, bolts, sealants etc.                                                                                                                                                                                                                              | No.            | 2        |           |             |
| 42,6      | Supply and install a 160mm swing check valve flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 42,7      | Supply and install a 160mm In-line strainer, flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 42,8      | Supply and install a 160mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                       | No.            | 1        |           |             |
| 42,9      | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                                                                                                                                                                                                                                    | m              | 8        |           |             |
| 42,10     | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 42,11     | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                                                                                                                                                                                                                                                            | No.            | 1        |           |             |
| 42,12     | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                                                                                                                                                                                                                                                   | No.            | 1        |           |             |
| 42,13     | Test and commission the installation                                                                                                                                                                                                                                                                                                                                                                                    | No.            | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |
| <b>28</b> |                                                                                                                                                                                                                                                                                                                                                                                                                         |                |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                             | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |
|           | <b>METER NO. 34 Installation of New meter including associated components<br/>Meter size: 110mm, existing pipe material is u-PVC</b>                                                                                                                                                                                                                                                                                    |                |          |           |             |
| 43,1      | Proof trench and verify the pipe material, depth and pipe size before procuring any material for the installation.                                                                                                                                                                                                                                                                                                      | m <sup>3</sup> | 5        |           |             |
| 43,2      | Cutting off approximately 4.5m of pipe including fitting of flanges on both ends of exposed pipe as per drawings and specifications                                                                                                                                                                                                                                                                                     | m              | 4,5      |           |             |
| 43,3      | Construct a new water meter manhole with overall size 2.66m x 1.66m and varying depths not exceeding 2.53m deep including all necessary additional excavations, risk of collapse, blinding, manhole base, stone bedding, 230mm brickwork, backfilling, concrete cover slab, including breaking openings on both ends for new pipe and cart away of surplus material all in accordance with drawings and specifications. | No.            | 1        |           |             |
| 43,4      | Supply and install 110mm diameter steel pipes each approximately 1.4m in length, flanged on both ends and fitted on either end of manhole to existing flanged asbestos pipes and in new manholes including sealing off ends of manholes, support/thrust blocks, etc., gaskets, bolts, sealants etc.                                                                                                                     | No.            | 2        |           |             |
| 43,5      | Supply and install 110mm dia. spool pieces approximately 250mm in length flanged on both ends and fitted to meter, strainer & valve including all necessary, gaskets, bolts, sealants etc.                                                                                                                                                                                                                              | No.            | 2        |           |             |
| 43,6      | Supply and install a 110mm swing check valve flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 43,7      | Supply and install a 110mm In-line strainer, flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 43,8      | Supply and install a 110mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                       | No.            | 1        |           |             |
| 43,9      | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                                                                                                                                                                                                                                    | m              | 8        |           |             |
| 43,10     | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 43,11     | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                                                                                                                                                                                                                                                            | No.            | 1        |           |             |
| 43,12     | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                                                                                                                                                                                                                                                   | No.            | 1        |           |             |
| 43,13     | Test and commission the installation                                                                                                                                                                                                                                                                                                                                                                                    | No.            | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |
| <b>28</b> |                                                                                                                                                                                                                                                                                                                                                                                                                         |                |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                             | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |
|           | <b>METER NO. 38 Installation of New meter including associated components<br/>Meter size: 50mm, existing pipe material is u-PVC</b>                                                                                                                                                                                                                                                                                     |                |          |           |             |
| 44,1      | Proof trench and verify the pipe material, depth and pipe size before procuring any material for the installation.                                                                                                                                                                                                                                                                                                      | m <sup>3</sup> | 5        |           |             |
| 44,2      | Cutting off approximately 4.5m of pipe including fitting of flanges on both ends of exposed pipe as per drawings and specifications                                                                                                                                                                                                                                                                                     | m              | 4,5      |           |             |
| 44,3      | Construct a new water meter manhole with overall size 2.66m x 1.66m and varying depths not exceeding 2.53m deep including all necessary additional excavations, risk of collapse, blinding, manhole base, stone bedding, 230mm brickwork, backfilling, concrete cover slab, including breaking openings on both ends for new pipe and cart away of surplus material all in accordance with drawings and specifications. | No.            | 1        |           |             |
| 44,4      | Supply and install 50mm diameter steel pipes each approximately 1.4m in length, flanged on both ends and fitted on either end of manhole to existing flanged asbestos pipes and in new manholes including sealing off ends of manholes, support/thrust blocks, etc., gaskets, bolts, sealants etc.                                                                                                                      | No.            | 2        |           |             |
| 44,5      | Supply and install 50mm dia. spool pieces approximately 250mm in length flanged on both ends and fitted to meter, strainer & valve including all necessary, gaskets, bolts, sealants etc.                                                                                                                                                                                                                               | No.            | 2        |           |             |
| 44,6      | Supply and install a 50mm swing check valve flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                  | No.            | 1        |           |             |
| 44,7      | Supply and install a 50mm In-line strainer, flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                  | No.            | 1        |           |             |
| 44,8      | Supply and install a 50mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                        | No.            | 1        |           |             |
| 44,9      | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                                                                                                                                                                                                                                    | m              | 8        |           |             |
| 44,10     | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 44,11     | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                                                                                                                                                                                                                                                            | No.            | 1        |           |             |
| 44,12     | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                                                                                                                                                                                                                                                   | No.            | 1        |           |             |
| 44,13     | Test and commission the installation                                                                                                                                                                                                                                                                                                                                                                                    | No.            | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |
| <b>28</b> |                                                                                                                                                                                                                                                                                                                                                                                                                         |                |          |           |             |

| ITEM  | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                             | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|-----------|-------------|
|       | <b>BROUGHT FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |
|       | <b>METER NO. 39 Installation of New meter including associated components<br/>Meter size: 50mm, existing pipe material is HDPE</b>                                                                                                                                                                                                                                                                                      |                |          |           |             |
| 45,1  | Proof trench and verify the pipe material, depth and pipe size before procuring any material for the installation.                                                                                                                                                                                                                                                                                                      | m <sup>3</sup> | 5        |           |             |
| 45,2  | Cutting off approximately 4.5m of pipe including fitting of flanges on both ends of exposed pipe as per drawings and specifications                                                                                                                                                                                                                                                                                     | m              | 4,5      |           |             |
| 45,3  | Construct a new water meter manhole with overall size 2.66m x 1.66m and varying depths not exceeding 2.53m deep including all necessary additional excavations, risk of collapse, blinding, manhole base, stone bedding, 230mm brickwork, backfilling, concrete cover slab, including breaking openings on both ends for new pipe and cart away of surplus material all in accordance with drawings and specifications. | No.            | 1        |           |             |
| 45,4  | Supply and install 40mm diameter steel pipes each approximately 1.4m in length, flanged on both ends and fitted on either end of manhole to existing flanged asbestos pipes and in new manholes including sealing off ends of manholes, support/thrust blocks, etc., gaskets, bolts, sealants etc.                                                                                                                      | No.            | 2        |           |             |
| 45,5  | Supply and install 40mm dia. spool pieces approximately 250mm in length flanged on both ends and fitted to meter, strainer & valve including all necessary, gaskets, bolts, sealants etc.                                                                                                                                                                                                                               | No.            | 2        |           |             |
| 45,6  | Supply and install a 40mm swing check valve flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                  | No.            | 1        |           |             |
| 45,7  | Supply and install a 40mm In-line strainer, flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                  | No.            | 1        |           |             |
| 45,8  | Supply and install a 40mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                        | No.            | 1        |           |             |
| 45,9  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                                                                                                                                                                                                                                    | m              | 8        |           |             |
| 45,10 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 45,11 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                                                                                                                                                                                                                                                            | No.            | 1        |           |             |
| 45,12 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                                                                                                                                                                                                                                                   | No.            | 1        |           |             |
| 45,13 | Test and commission the installation                                                                                                                                                                                                                                                                                                                                                                                    | No.            | 1        |           |             |
|       | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |

| ITEM  | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                             | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|-----------|-------------|
|       | <b>BROUGHT FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |
|       | <b>METER NO. 41 Installation of new meter including associated components<br/>Meter size: 100mm, existing pipe material is Asbestos Cement</b>                                                                                                                                                                                                                                                                          |                |          |           |             |
| 46,1  | Proof trench and verify the pipe material, depth and pipe size before procuring any material for the installation.                                                                                                                                                                                                                                                                                                      | m <sup>3</sup> | 5        |           |             |
| 46,2  | Cutting off approximately 4.5m of pipe including fitting of flanges on both ends of exposed pipe as per drawings and specifications                                                                                                                                                                                                                                                                                     | m              | 4,5      |           |             |
| 46,3  | Construct a new water meter manhole with overall size 2.66m x 1.66m and varying depths not exceeding 2.53m deep including all necessary additional excavations, risk of collapse, blinding, manhole base, stone bedding, 230mm brickwork, backfilling, concrete cover slab, including breaking openings on both ends for new pipe and cart away of surplus material all in accordance with drawings and specifications. | No.            | 1        |           |             |
| 46,4  | Supply and install 100mm diameter steel pipes each approximately 1.4m in length, flanged on both ends and fitted on either end of manhole to existing flanged asbestos pipes and in new manholes including sealing off ends of manholes, support/thrust blocks, etc., gaskets, bolts, sealants etc.                                                                                                                     | No.            | 2        |           |             |
| 46,5  | Supply and install 100mm dia. spool pieces approximately 250mm in length flanged on both ends and fitted to meter, strainer & valve including all necessary, gaskets, bolts, sealants etc.                                                                                                                                                                                                                              | No.            | 2        |           |             |
| 46,6  | Supply and install a 100mm swing check valve flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 46,7  | Supply and install a 100mm In-line strainer, flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 46,8  | Supply and install a 100mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                       | No.            | 1        |           |             |
| 46,9  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                                                                                                                                                                                                                                    | m              | 8        |           |             |
| 46,10 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 46,11 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                                                                                                                                                                                                                                                            | No.            | 1        |           |             |
| 46,12 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                                                                                                                                                                                                                                                   | No.            | 1        |           |             |
| 46,13 | Test and commission the installation                                                                                                                                                                                                                                                                                                                                                                                    | No.            | 1        |           |             |
|       | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                             | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |
|           | <b>METER No. 42 Installation of New meter including associated components<br/>Meter size: 110mm, existing pipe material is u-PVC</b>                                                                                                                                                                                                                                                                                    |                |          |           |             |
| 47,1      | Proof trench and verify the pipe material, depth and pipe size before procuring any material for the installation.                                                                                                                                                                                                                                                                                                      | m <sup>3</sup> | 5        |           |             |
| 47,2      | Cutting off approximately 4.5m of pipe including fitting of flanges on both ends of exposed pipe as per drawings and specifications                                                                                                                                                                                                                                                                                     | m              | 4,5      |           |             |
| 47,3      | Construct a new water meter manhole with overall size 2.66m x 1.66m and varying depths not exceeding 2.53m deep including all necessary additional excavations, risk of collapse, blinding, manhole base, stone bedding, 230mm brickwork, backfilling, concrete cover slab, including breaking openings on both ends for new pipe and cart away of surplus material all in accordance with drawings and specifications. | No.            | 1        |           |             |
| 47,4      | Supply and install 110mm diameter steel pipes each approximately 1.4m in length, flanged on both ends and fitted on either end of manhole to existing flanged asbestos pipes and in new manholes including sealing off ends of manholes, support/thrust blocks, etc., gaskets, bolts, sealants etc.                                                                                                                     | No.            | 2        |           |             |
| 47,5      | Supply and install 110mm dia. spool pieces approximately 250mm in length flanged on both ends and fitted to meter, strainer & valve including all necessary, gaskets, bolts, sealants etc.                                                                                                                                                                                                                              | No.            | 2        |           |             |
| 47,6      | Supply and install a 110mm swing check valve flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 47,7      | Supply and install a 110mm In-line strainer, flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 47,8      | Supply and install a 110mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                       | No.            | 1        |           |             |
| 47,9      | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                                                                                                                                                                                                                                    | m              | 8        |           |             |
| 47,10     | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 47,11     | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                                                                                                                                                                                                                                                            | No.            | 1        |           |             |
| 47,12     | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                                                                                                                                                                                                                                                   | No.            | 1        |           |             |
| 47,13     | Test and commission the installation                                                                                                                                                                                                                                                                                                                                                                                    | No.            | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |
| <b>28</b> |                                                                                                                                                                                                                                                                                                                                                                                                                         |                |          |           |             |

| ITEM      | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                             | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|-----------|-------------|
|           | <b>BROUGHT FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |
|           | <b>METER No. 48 Installation of New meter including associated components<br/>Meter size: 160mm, existing pipe material is u-PVC</b>                                                                                                                                                                                                                                                                                    |                |          |           |             |
| 48,1      | Proof trench and verify the pipe material, depth and pipe size before procuring any material for the installation.                                                                                                                                                                                                                                                                                                      | m <sup>3</sup> | 5        |           |             |
| 48,2      | Cutting off approximately 4.5m of pipe including fitting of flanges on both ends of exposed pipe as per drawings and specifications                                                                                                                                                                                                                                                                                     | m              | 4,5      |           |             |
| 48,3      | Construct a new water meter manhole with overall size 2.66m x 1.66m and varying depths not exceeding 2.53m deep including all necessary additional excavations, risk of collapse, blinding, manhole base, stone bedding, 230mm brickwork, backfilling, concrete cover slab, including breaking openings on both ends for new pipe and cart away of surplus material all in accordance with drawings and specifications. | No.            | 1        |           |             |
| 48,4      | Supply and install 160mm diameter steel pipes each approximately 1.4m in length, flanged on both ends and fitted on either end of manhole to existing flanged asbestos pipes and in new manholes including sealing off ends of manholes, support/thrust blocks, etc., gaskets, bolts, sealants etc.                                                                                                                     | No.            | 2        |           |             |
| 48,5      | Supply and install 160mm dia. spool pieces approximately 250 mm in length flanged on both ends and fitted to meter, strainer & valve including all necessary, gaskets, bolts, sealants etc.                                                                                                                                                                                                                             | No.            | 2        |           |             |
| 48,6      | Supply and install a 160mm swing check valve flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 48,7      | Supply and install a 160mm In-line strainer, flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 48,8      | Supply and install a 160mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                       | No.            | 1        |           |             |
| 48,9      | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                                                                                                                                                                                                                                    | m              | 8        |           |             |
| 48,10     | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 48,11     | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                                                                                                                                                                                                                                                            | No.            | 1        |           |             |
| 48,12     | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                                                                                                                                                                                                                                                   | No.            | 1        |           |             |
| 48,13     | Test and commission the installation                                                                                                                                                                                                                                                                                                                                                                                    | No.            | 1        |           |             |
|           | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |
| <b>28</b> |                                                                                                                                                                                                                                                                                                                                                                                                                         |                |          |           |             |

| ITEM  | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                             | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|-----------|-------------|
|       | <b>BROUGHT FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           | R -         |
|       | <b>METER No. 50 Installation of New meter including associated components<br/>Meter size: 110mm, existing pipe material is u-PVC</b>                                                                                                                                                                                                                                                                                    |                |          |           |             |
| 49,1  | Proof trench and verify the pipe material, depth and pipe size before procuring any material for the installation.                                                                                                                                                                                                                                                                                                      | m <sup>3</sup> | 5        |           |             |
| 49,2  | Cutting off approximately 4.5m of pipe including fitting of flanges on both ends of exposed pipe as per drawings and specifications                                                                                                                                                                                                                                                                                     | m              | 4,5      |           |             |
| 49,3  | Construct a new water meter manhole with overall size 2.66m x 1.66m and varying depths not exceeding 2.53m deep including all necessary additional excavations, risk of collapse, blinding, manhole base, stone bedding, 230mm brickwork, backfilling, concrete cover slab, including breaking openings on both ends for new pipe and cart away of surplus material all in accordance with drawings and specifications. | No.            | 1        |           |             |
| 49,4  | Supply and install 110mm diameter steel pipes each approximately 1.4m in length, flanged on both ends and fitted on either end of manhole to existing flanged asbestos pipes and in new manholes including sealing off ends of manholes, support/thrust blocks, etc., gaskets, bolts, sealants etc.                                                                                                                     | No.            | 2        |           |             |
| 49,5  | Supply and install 110mm dia. spool pieces approximately 250mm in length flanged on both ends and fitted to meter, strainer & valve including all necessary, gaskets, bolts, sealants etc.                                                                                                                                                                                                                              | No.            | 2        |           |             |
| 49,6  | Supply and install a 110mm swing check valve flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 49,7  | Supply and install a 110mm In-line strainer, flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 49,8  | Supply and install a 110mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                       | No.            | 1        |           |             |
| 49,9  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                                                                                                                                                                                                                                    | m              | 8        |           |             |
| 49,10 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 49,11 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                                                                                                                                                                                                                                                            | No.            | 1        |           |             |
| 49,12 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                                                                                                                                                                                                                                                   | No.            | 1        |           |             |
| 49,13 | Test and commission the installation                                                                                                                                                                                                                                                                                                                                                                                    | No.            | 1        |           |             |
|       | <b>CARRIED FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                         |                |          |           |             |

| ITEM  | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                             | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|-----------|-------------|
|       | <b>BROUGHT FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |           |             |
|       | <b>METER No. 51 Installation of New meter including associated components<br/>Meter size: 110mm, existing pipe material is u-PVC</b>                                                                                                                                                                                                                                                                                    |                |          |           |             |
| 50,1  | Proof trench and verify the pipe material, depth and pipe size before procuring any material for the installation.                                                                                                                                                                                                                                                                                                      | m <sup>3</sup> | 5        |           |             |
| 50,2  | Cutting off approximately 4.5m of pipe including fitting of flanges on both ends of exposed pipe as per drawings and specifications                                                                                                                                                                                                                                                                                     | m              | 4,5      |           |             |
| 50,3  | Construct a new water meter manhole with overall size 2.66m x 1.66m and varying depths not exceeding 2.53m deep including all necessary additional excavations, risk of collapse, blinding, manhole base, stone bedding, 230mm brickwork, backfilling, concrete cover slab, including breaking openings on both ends for new pipe and cart away of surplus material all in accordance with drawings and specifications. | No.            | 1        |           |             |
| 50,4  | Supply and install 110mm diameter steel pipes each approximately 1.4m in length, flanged on both ends and fitted on either end of manhole to existing flanged asbestos pipes and in new manholes including sealing off ends of manholes, support/thrust blocks, etc., gaskets, bolts, sealants etc.                                                                                                                     | No.            | 2        |           |             |
| 50,5  | Supply and install 110mm dia. spool pieces approximately 250mm in length flanged on both ends and fitted to meter, strainer & valve including all necessary, gaskets, bolts, sealants etc.                                                                                                                                                                                                                              | No.            | 2        |           |             |
| 50,6  | Supply and install a 110mm swing check valve flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 50,7  | Supply and install a 110mm In-line strainer, flanged on both ends and fitted to new flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 50,8  | Supply and install a 110mm water meter compatible with AMR technology, flanged on both ends and fitted to new-flanged pipes including all necessary gaskets, bolts, sealants etc.                                                                                                                                                                                                                                       | No.            | 1        |           |             |
| 50,9  | Pipes underground to be taped shall be coated with appropriate primer and the tape shall be applied with minimum 15mm lap per spiral                                                                                                                                                                                                                                                                                    | m              | 8        |           |             |
| 50,10 | Supply, install, mount and configure a smart IP68 automatic data logger and meter-reading device and establish connectivity for wireless communication.                                                                                                                                                                                                                                                                 | No.            | 1        |           |             |
| 50,11 | Register the meter on both the billing server and the new Utility Management System with appropriate tagging                                                                                                                                                                                                                                                                                                            | No.            | 1        |           |             |
| 50,12 | Create an account and link the meter to the account and apply the appropriate tariffs                                                                                                                                                                                                                                                                                                                                   | No.            | 1        |           |             |
| 50,13 | Test and commission the installation                                                                                                                                                                                                                                                                                                                                                                                    | No.            | 1        |           |             |
|       | <b>CARRIED FORWARD TO SUMMARY SLD</b>                                                                                                                                                                                                                                                                                                                                                                                   |                |          |           |             |

| ITEM                                                                      | DESCRIPTION                                                                                                                                                                                                                                                      | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|---------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
| <b>SUPPLY AND INSTALLATION OF SMART ELECTRICITY METER READING DEVICES</b> |                                                                                                                                                                                                                                                                  |      |          |           |             |
| <b>C</b>                                                                  | <b>Replacement of energy meters in various locations (Three Phase)</b>                                                                                                                                                                                           |      |          |           |             |
|                                                                           | Supply, install, configure, test and commission Smart Electricity Meters for measurement of different electrical parameters listed elsewhere in the document including Active energy (kWh/MWh), Reactive energy (kVArh/MVArh), Apparent energy (kVAh/MVAh) etc., |      |          |           |             |
| 1,1                                                                       | Decommission and remove the existing Electricity Meters in various locations                                                                                                                                                                                     | No.  | 2        |           |             |
| 1,2                                                                       | Supply and Install Current Transformer for Medium Voltage feeders.                                                                                                                                                                                               | No.  | 39       |           |             |
| 1,3                                                                       | Supply, install and configure a new smart energy meter with all the necessary comms required (communication module, GSM antenna etc.),                                                                                                                           | No.  | 13       |           |             |
| 1,4                                                                       | Establish connectivity: Link the meters to the billing server and the new Utilities Management System, Create Accounts and apply the tariffs.                                                                                                                    | No.  | 18       |           |             |
| 1,5                                                                       | Test and commission the installation.                                                                                                                                                                                                                            | No.  | 18       |           |             |
|                                                                           | <b>CARRIED FORWARD TO SUMMARY SLD</b>                                                                                                                                                                                                                            |      |          |           |             |

| ITEM | DESCRIPTION                                                                                                                                                                                                                                                                                                              | UNIT           | QUANTITY | RATE<br>R | AMOUNT<br>R |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|-----------|-------------|
| D    | COMMUNICATION                                                                                                                                                                                                                                                                                                            |                |          |           |             |
| 1,1  | Standalone Fibre Network - Design, supply, install and patch 48 pair single mode fibre optic cable (652D)                                                                                                                                                                                                                | m              | 10000    |           |             |
| 1,2  | Excavate and backfill where depth is not exceeding 2m deep                                                                                                                                                                                                                                                               | m <sup>3</sup> | 1800     |           |             |
| 1,3  | Supply and install 110mm PVC pipe and chamber system for the fibre.                                                                                                                                                                                                                                                      | m              | 10000    |           |             |
| 1,4  | Reinstate exsiting surface and make good                                                                                                                                                                                                                                                                                 | m <sup>2</sup> | 3000     |           |             |
| 1,5  | Supply and install patch panels fully populated 48 pair with Lucent Connector (LC) patch leads                                                                                                                                                                                                                           | No.            | 10       |           |             |
| 1,6  | Supply and install a media converter                                                                                                                                                                                                                                                                                     | No.            | 12       |           |             |
| 1,7  | Supply, install and configure 24 ports managed enterprise network switches including routing and setting up VLANs                                                                                                                                                                                                        | No.            | 10       |           |             |
| 1,8  | Supply and install a 9U swing frame cabinet 900mm deep                                                                                                                                                                                                                                                                   | No.            | 10       |           |             |
| 1,9  | Design and construction of Manholes for fibre                                                                                                                                                                                                                                                                            | No.            | 10       |           |             |
| 1,10 | Supply, install and setup the severs                                                                                                                                                                                                                                                                                     | No.            | 2        |           |             |
| 1,12 | Splicing of Fibres                                                                                                                                                                                                                                                                                                       | No.            | 240      |           |             |
| 1,13 | OTDR Testing (Test and submit line losses)                                                                                                                                                                                                                                                                               | No.            | 240      |           |             |
| 1,14 | Supply, install, configure and commission a Firewall for LAN, ensure that old and new services going through the Firewall are reinstated. Setup DMZ and position a management workstation within DMZ                                                                                                                     | Sum            | 1        |           |             |
| 1,15 | Supply and install management workstation desktops and link to TNPA corporate network. Setup rules for management workstation and provide dashboards whilst second LAN on machine connects to Transnet Data Network. Management station needs to be on Transnet domain and have relative Transnet Policies applied to it | No.            | 1        |           |             |
| 1,16 | Supply and install the latest Microsoft SQL server (permanent license)                                                                                                                                                                                                                                                   | No.            | 2        |           |             |
|      | CARRIED FORWARD TO SUMMARY                                                                                                                                                                                                                                                                                               |                |          |           |             |

| ITEM     | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                           | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------|-------------|
|          | <b>BROUGHT FORWARD</b>                                                                                                                                                                                                                                                                                                                                                                                                                                |      |          |           |             |
| <b>E</b> | <b>PROCUREMENT AND SUPPLY OF SPARES</b>                                                                                                                                                                                                                                                                                                                                                                                                               |      |          |           |             |
| 1,1      | Smart automatic water meter reading devices                                                                                                                                                                                                                                                                                                                                                                                                           | No.  | 52       |           |             |
| 1,2      | Smart automatic energy meter reading devices                                                                                                                                                                                                                                                                                                                                                                                                          | No.  | 19       |           |             |
| 1,3      | Supply hand held automatic meter reading device (water & energy)                                                                                                                                                                                                                                                                                                                                                                                      | No.  | 2        |           |             |
|          | <b>CARRIED FORWARD TO SUMMARY SLD</b>                                                                                                                                                                                                                                                                                                                                                                                                                 |      |          |           |             |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |          |           |             |
| ITEM     | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                           | UNIT | QUANTITY | RATE<br>R | AMOUNT<br>R |
| <b>F</b> | <b>AUTOMATIC METER READING (AMR) SYSTEM AND SOFTWARE INTEGRATION</b>                                                                                                                                                                                                                                                                                                                                                                                  |      |          |           |             |
|          | <b>Metering gateways</b>                                                                                                                                                                                                                                                                                                                                                                                                                              |      |          |           |             |
| 1,1      | Supply, installation, configure and integrate the metering gateways onto the LAN and utilities management system for uploading water meter data. Including civil and structural works and all appurtenances                                                                                                                                                                                                                                           | No.  | 5        |           |             |
| 1,2      | <b>New Utilities Management System</b><br>Development, Programming and Software integration into the billing server, tariff setup, designing billing template and setting up billing accounts on billing server. Configure the server to send an Alert (SMS) to TNPA for abnormalities. Including linking all Port meters to new utilities management system. Provide license package. Develop an API and link it to the back end of IPMS and SAP ERP | Sum  | 1        |           |             |
| 1,3      | Mapping the meters onto the Geographic Information System (GIS) showing the exact installation point, opening meter reading and the picture of the installation.                                                                                                                                                                                                                                                                                      | Sum  | 1        |           |             |
| 1,4      | Testing and commissioning of the software side both individ                                                                                                                                                                                                                                                                                                                                                                                           | Sum  | 1        |           |             |
| 1,5      | AMR Training for End Users                                                                                                                                                                                                                                                                                                                                                                                                                            | Sum  | 1        |           |             |
|          | <b>CARRIED FORWARD TO SUMMARY SLD</b>                                                                                                                                                                                                                                                                                                                                                                                                                 |      |          |           |             |

| PORT OF SALDANHA                       |                                                                         |             |
|----------------------------------------|-------------------------------------------------------------------------|-------------|
|                                        | DESCRIPTION                                                             | AMOUNT<br>R |
| A                                      | PRELIMINARIES AND GENERALS                                              |             |
| B                                      | SUPPLY AND INSTALLATION OF SMART AUTOMATIC WATER METER READING DEVICES  |             |
| C                                      | SUPPLY AND INSTALLATION OF SMART AUTOMATIC ENERGY METER READING DEVICES |             |
| D                                      | COMMUNICATION                                                           |             |
| E                                      | PROCUREMENT AND SUPPLY OF SPARES                                        |             |
| F                                      | AUTOMATIC METER READING (AMR) SYSTEM AND SOFTWARE INTEGRATION           |             |
| TOTAL CARRIED FORWARD TO SUMMARY PAGE: |                                                                         |             |
|                                        |                                                                         |             |