TRANSNET NATIONAL PORTS AUTHORITY

an Operating Division of **TRANSNET SOC LTD**

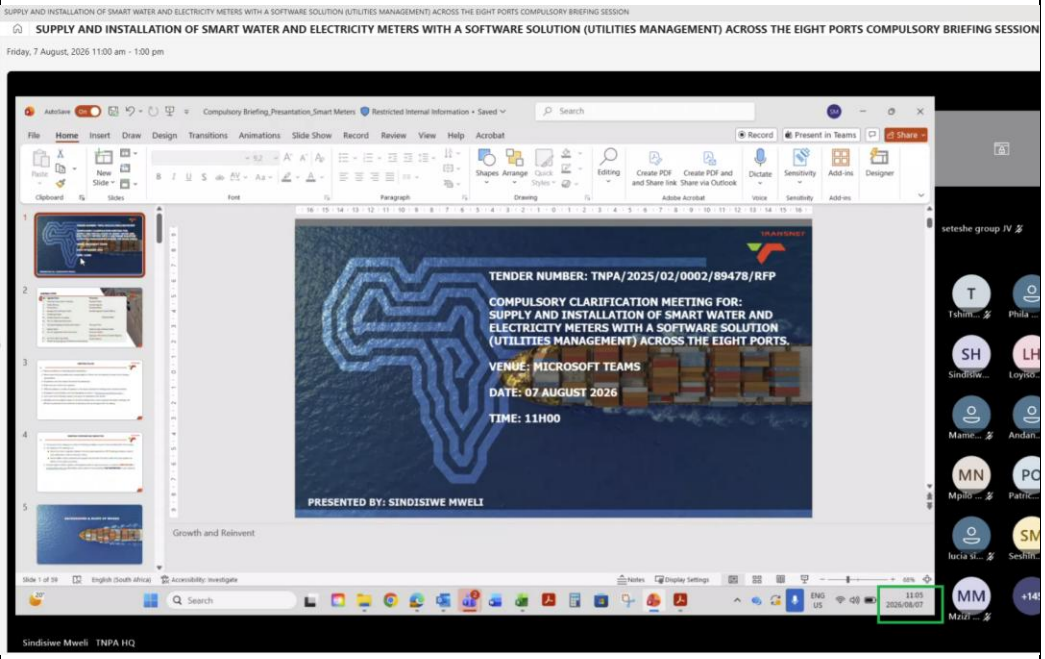
[hereinafter referred to as **Transnet]** [Registration No. 1990/000900/30]

REQUEST FOR PROPOSAL [RFP]

SUPPLY AND INSTALLATION OF SMART WATER AND ELECTRICITY METERS WITH A SOFTWARE SOLUTION (UTILITIES MANAGEMENT) ACROSS THE EIGHT PORTS

RFP NUMBER:	**TNPA/2025/02/0002/89478/RFP**
ISSUE DATE:	**30 July 2026**
COMPULSORY BRIEFING SESSION:	**31 July 2026 @10H00**
CLOSING DATE:	**30 October 2026**
CLOSING TIME:	**16H00**
BID VALIDITY PERIOD:	**12 WEEKS FROM CLOSING DATE**

Questions and Responses 3:

No.	Bidders Questions	TNPA Responses
1.	**<u>Compulsory Clarification Meeting,</u>**	
1.1	**Document:** Smart Meters RFP Final 30.7.2026 **Item:** T1.1 Tender Notice and Invitation to Tender, Compulsory Clarification Meeting, and T2.2-02, Certificate of Attendance at Tender Clarification Meeting The tender notice gives the compulsory clarification meeting time as "11:00am [10 O'clock]". Please confirm the recorded start time and circulate the signed T2.2-02 attendance certificate to all registered attendees.	The meeting officially started at 11:05 am on 7th of August 2026, do see screenshot below: 
2.	**<u>Contract</u>**	
2.1	C1.2 Contract Data, Part One; T2.2-11, Evaluation Schedule: Programme **Clause / item:** C3.1 Works Information, clause 7.6.6 Works Information 7.6.6 states an estimated project duration of ninety-six	Tenderers are to programme against the dates on Part C1.2 - Contract Data. Please ignore the reference to 96 weeks (24 Months) reference in the Works Information as per clause 7.6.6 and base the programming duration on the dates stated in the Contract Data. However, Tenderers may propose an alternative programme that

No.	Bidders Questions	TNPA Responses
	weeks (twenty-four months), while Contract Data gives a starting date of 11 November 2026 and completion of the whole of the works on 29 May 2030 with sectional completions from December 2027. Please confirm which duration tenderers must programme against for the purposes of T2.2-11.	demonstrate a shortened construction timeline.
2.2	**Document:** Smart Meters RFP Final 30.7.2026. **Item:** C3.1 Works Information, clause 2.4.4 and Annexure L Please confirm the expected turnaround for Employer review and acceptance of the network architecture design under Annexure L, given that no procurement, installation or commissioning may proceed until acceptance is granted, and confirm whether the two-week review period in Works Information 2.4.4 applies.	Yes, the two weeks *period* for reply applies as stated in Works Information Clause 2.4.4.
2.3	**Document:** Smart Meters RFP Final 30.7.2026 **Clause / item:** C1.2 Contract Data, clause 35.1, Take Over, and C3.1 Works Information, clause 3.3.4.1 Contract Data 35.1 states the Employer is not willing to take over the works before the Completion Date and gives 1 May 2030, while Works Information 3.3.4.1 states the Employer may take over a completed section before the Completion Date. Please confirm the take-over position for sectional completion, and when retention and the 12-month guarantee period commence per port.	Contract Data clause 35.1 the Date has been removed. Option X5 Sectional Completion applies for the sections of work; the *Employer* will take over the sections within two weeks of its Completion as per the *completion* date for each of the works as stated in the Contract Data clause X5.1. The Addendum will be issued. Retention and 12-months guarantee period: Retention will only be proportional released on the sectional completion of the works and it's balance will be released 12 months from the sectional completion to cover the Defects Liability Period.

No.	Bidders Questions	TNPA Responses
2.4	**Document**: Smart Meters RFP Final 30.7.2026 **Clause:** C1.2 Contract Data, clause Z6 Please confirm the expected timeframe and process for State Security Agency vetting under Z6, and whether clearance is required before site access or may run in parallel with the works.	Vendor vetting is done during Tender Evaluation stage before award of contract.
2.5	**Document:** Smart Meters RFP Final 30.7.2026 **Claus:** C1.2 Contract Data, clause Z9 Please confirm the anticipated timeframe for vendor loading on the Transnet database under Z9, given that no payment assessment occurs until it is complete.	Vendor loading process duration may vary depending on the completeness and accuracy of the information submitted by the successful Contractor, under normal circumstance this process is two week.
3.	**Bill of Quantities**	
3.1	**Document:** Bill of Quantities / Pricing Schedule for RFP TNPA/2025/02/0002/89478/RFP Please confirm whether the ground-penetrating radar and site clearance quantities in the Bill of Quantities are surveyed or nominal, given that identical figures appear for ports of significantly different size.	Please note that the Quantities included in the Bill of Quantities (BoQ) are estimates. Any adjustments to quantities arising from actual site conditions will be managed in accordance with the provisions of the Contract.
3.2	**Document:** Smart Meters RFP Final 30.7.2026 and Bill of Quantities / Pricing Schedule **Clause / item:** clause 5.1.1 and Table 1, Richards Bay power quality meters	The omission has been rectified. The Bill of Quantities (BoQ) has been updated to include line items for the Power Quality Meters, and the relevant technical specifications have been incorporated into the Work Information.

No.	Bidders Questions	TNPA Responses
	and I/O modules, together with the corresponding Bill of Quantities items. Works Information 5.1.1 and Table 1 schedule 101 power quality meters and 101 I/O modules across twelve Richards Bay substations, but no corresponding item appears in the Bill of Quantities. Please confirm whether these are within the scope of this contract and, if so, issue a bill item against which they can be priced.	Refer to Clause 5.15 "Technical specification of the Power Quality Meters"
3.3	**Document:** Smart Meters RFP Final 30.7.2026 and Bill of Quantities / Pricing Schedule **Clause / item:** C3.1 Works Information, Table 2, Richards Bay meter locations, together with the Richards Bay Bill of Quantities. At Richards Bay the Works Information lists 35 meter locations in Table 2 while the Bill prices 94 three-phase and 20 single-phase meters. Please confirm the quantity tenderers must price.	Tenderers are to price the Quantities stated in the Bill of Quantities (BoQ) i.e., 94 three-phase meters and 20 single-phase meters, the meter location will be confirmed on site.
3.4	**Document:** Bill of Quantities / Pricing Schedule for RFP TNPA/2025/02/0002/89478/RFP **Clause / item:** Port of Durban and Port of Ngqura electricity meter quantities The Port of Durban and Port of Ngqura electricity bills carry identical quantities — 3 meters decommissioned, 14 circuits re-wired and 52 meters supplied and commissioned. Please confirm these are correct and not a duplication	There was an error in the BoQ. The Port of Durban quantities are correct and an Addendum issued correcting the quantities for the Port of Ngqura. • The BoQ line item "Re-wire the existing electrical circuits" has been removed, as it is not applicable to the Port of Ngqura.

No.	Bidders Questions	TNPA Responses
3.5	**<u>Richards Bay Quantities Clarification</u>** - We request clarification of the Richards Bay electricity-meter quantities to ensure that our equipment selection and pricing accurately reflect the required scope. We have identified the following differences between the Works Information (tender document) and the amended BOQ: Please confirm: 1. **The required quantities by equipment type:** power-quality meters, other three-phase electricity meters, single-phase electricity meters and I/O modules. 2. **Whether the 101 power-quality meters are additional to, or included within, the BOQ quantities.** If included, please identify the applicable allocation and BOQ pricing lines. A quantity alone does not identify a purchasable module. Its input/output types, channel counts and compatibility determine the model and price. We need Transnet to confirm whether the **101 power-quality meters** are: • **Additional to the 114 BOQ meters**, giving **215 electricity meters** in total; or **Included within the 114 BOQ meters**, in which case Transnet must identify which quantities require power-quality functionality.	1. Tenderers are to price the Quantities stated in the Bill of Quantities (BoQ) i.e., • 101 Power Quality Meters • 101 I/O Modules • 94 three-phase meters • 20 single-phase meters. 2. The omission has been rectified. The Bill of Quantities (BoQ) has been updated to include line items for the Power Quality Meters, and the relevant technical specifications have been incorporated into the Work Information. **Power Quality Meter (11 kV)** The meter shall: • Comply with IEC 61000-4-30 Class A power quality measurement requirements. • Measure and record voltage, current, power, energy, frequency, power factor, harmonics, voltage sags, swells, interruptions and transients. • Support power quality event logging and waveform capture. • Provide Ethernet and/or GSM communication as specified. • Support industry-standard protocols such as Ethernet, Modbus and TCP/IP.

No.	Bidders Questions	TNPA Responses
	3. **The pricing treatment of the 101 I/O modules:** whether they must be included in the associated meter rates or priced under a separate line. Please also confirm the required digital/analogue input and output types, channel counts and any compatibility requirements. 4. **Which quantities bidders must use for pricing** where Table 2 and the BOQ differ, and whether an amended BOQ or formal clarification will be issued. 5. **Whether separate external loggers are required for the Richards Bay electricity/power-quality meters**, or whether suitable onboard recording and communications satisfy the requirement. If external loggers are required, please confirm their quantities, technical requirements and pricing location." Please provide a reconciled schedule or marked-up BOQ identifying the required quantities and pricing allocation, so that bidders can price the same scope without omissions or duplication.	• Be suitable for operation on 11 kV networks. 3. Tenderers are to provide pricing against the applicable I/O Module items included in the revised BoQ. The I/O modules shall be fully compatible with the specified Power Quality Meter and shall provide the functionality required for monitoring, control and integration requirements of the Works. As a minimum, the I/O Modules shall support: • Digital Inputs (DI) for status monitoring and alarm indication. • Digital Outputs (DO) for remote control and signaling functions • Analogue Inputs (AI) where required for the acquisition of analogue process signals. • Analogue Outputs (AO) where required for interfacing with external systems. 4. Tenderers are to price the Quantities stated in the revised Bill of Quantities (BoQ). 5. The Power Quality Meter shall provide onboard data logging, event recording, waveform capture and communication functionality. Separate external data loggers are not required.
3.6	**NQURA Quantities Clarification** **Ngqura – Energy Meters – RFQ: Table 9 – Pg 563** First Table Section: Total number of 3 phase meter quantities is **16 meters**. +	1. There was an error in the BoQ. The quantities have since been corrected, and an Addendum issued.

No.	Bidders Questions	TNPA Responses
	Second Table Section (**"Proposed New Installations"**): Total number of 3 phase meter quantities is **16 meters**. = 32 meters **Ngqura – Energy Meters – BOQ: Section C – Rows 218 to 224** "Supply, install and configure a new smart Electricity Meter with all the necessary comms required (communication module, GSM antenna etc.).". Total **52 meters**. Please confirm: Energy meter quantities as per above mention Energy meter quantities as per above mentioned discrepancy: 1. **BOQ Quantities x Locations** - Which locations and quantities make up the 52 meters 2. **RFQ Quantities Interpretation**- How should the two table section in Table 9 be interpreted? • The location descriptions substantially repeat between the two Table Sections. Transnet should confirm whether both Table Sections represent separate supply requirements.	

No.	Bidders Questions	TNPA Responses
3.7	**Saldanha Quantities Clarification** Two other points do not reconcile Please confirm: **1. Meter integration: 19 implied by the Works Information versus 18 in the BOQ.** Clauses 5.8.1–5.8.9 specify **13 new meters**, including their integration. Clause **5.8.10 and Table 14**, PDF page **594**, separately identify **six existing meters** to be connected. That implies **19 meters for integration**, whereas **SLD!D625 and D626** each state **18** for connectivity and commissioning.	1. The quantities have since been corrected, and an Addendum issued.
3.8	**2. CT allocation: the BOQ describes all 39 CTs as being for medium-voltage feeders. SLD!B623:D623** specifies **39 current transformers for medium-voltage feeders**. However, clauses **5.8.1–5.8.8** describe **12 new meters on 400 V circuits**, while clause **5.8.9** describes **one new meter on an 11 kV circuit**. Although 39 is arithmetically three CTs per new meter, that does **not** establish that all 39 should be medium-voltage CTs. Transnet should confirm the LV/MV allocation and ratings.	2. The quantities have since been corrected, and an Addendum issued.
4.	**<u>Technical</u>**	
4.1	**Document:** Smart Meters RFP Final 30.7.2026 **Item:** C3.1 Please provide, or confirm the location of, the specification of the existing billing systems, SCADA and IoT platforms at each port with which the utilities	The proposed solution must support standard industry communication protocols such as modbus, TCP/IP, Ethernet/IP etc. and support the transfer of metering data necessary for monitoring, reporting, and billing functions to existing systems. For this project the utility management software must operate independently of the existing

No.	Bidders Questions	TNPA Responses
	management software must integrate, and the make, model and protocol of the existing smart electricity meters at Saldanha that are to be linked to the new system.	billing systems, SCADA and other monitoring software in the ports. However, the software is required to be integrated with SAP and the Transnet Integrate Port Management System (IPMS). The proposed solution must support industry-standard integration protocols and data exchange formats, including SAP IDoc, XML, JSON, and CSV Files. Bidders are required to propose an appropriate integration approach and specify their preferred file format(s) for integration with SAP and IPMS. The proposal must also clearly identify any associated middleware, licensing, infrastructure, or other technical requirements. The existing smart electricity meters at Saldanha that are to be linked to the new system are Landys+Gyr E650 ZMD310CT44.0007.
4.2	**Document**: Smart Meters RFP Final 30.7.2026 **Clauses**: 5.10.1.11 and 5.12 Please confirm whether a vendor-hosted on-premises solution carrying an annual support and maintenance fee — as distinct from a software subscription — satisfies the perpetual licence and no-subscription requirements of Works Information 5.10.1.11 and 5.12.	A vendor-hosted solution would not comply with the requirements of the Works Information calling for an on-premises software solution hosted on TNPA infrastructure. The software solution must be deployed at each port and No cloud-based solutions will be accepted. The data must be stored locally at each port on the servers to be supplied using SQL server database and analysed on the server.

No.	Bidders Questions	TNPA Responses
4.3	**Document**: Smart Meters RFP Final 30.7.2026 **Clause** 2.6 Works Information 2.6 vests full title to intellectual property and copyright in design data in the Employer. Please confirm that this does not extend to a tenderer's pre-existing proprietary software, source code or underlying platform IP, which is licensed rather than created for the works.	Clause 2.6 of the Works Information applies to design data and project-specific deliverables created in relation to the works. It is not intended to require transfer of ownership of a Tenderer's pre-existing proprietary software, source code, software platform or other background intellectual property that existed prior to the contract. The Employer shall obtain ownership of project-specific design data and deliverables developed for the Works.
4.4	**Document**: Smart Meters RFP Final 30.7.2026 and Bill of Quantities / Pricing Schedule **Clause / item:** Port of Saldanha electricity meter quantities The Saldanha electricity bill prices 13 new meters supplied but 18 meters connected, accounted for and commissioned. Please confirm whether the difference represents existing smart meters to be linked to the new system, and identify their make, model and communication protocol.	Yes, the difference represents the existing smart meters to be linked to the new system, however, the Quantities have since been revised to align with the Works Information. The existing meters are Landys+Gyr E650 ZMD310CT44.0007.
4.5	**Document:** Smart Meters RFP Final 30.7.2026 **Clause / item:** C3.1 Works Information Please identify the make, version and integration interface of the existing Meter Data Management System at Durban onto which the new electricity meters must be registered.	The existing Meter Data Management System (MDMS) at the Port of Durban is the Switch Admin Console, powered by Switch Energy. The integration interface shall be through the Port's existing Local Area Network (LAN).

No.	Bidders Questions	TNPA Responses
4.6	**Document:** Smart Meters RFP Final 30.7.2026 **Clause / item:** C3.1 Works Information Please confirm whether the use of ION Setup is a mandatory requirement. If so, would a proposed solution that interfaces successfully with Adroit and ecWIN, but does not interface with ION Setup, be considered compliant with the tender requirements.	The Port of Richards Bay currently utilizes the Adroit SCADA System, ION Setup Vista and ECWIN for the monitoring and management of utilities. This information is provided to make Tenderers aware of the existing systems to which the current meters are connected. Replacement of the existing meters may affect connectivity to these systems and result in the loss of monitoring. The Works Information requires the Contractor to reinstate all affected services on the existing systems following meter replacement and to integrate the new meters with the proposed Utility Management System. Therefore, a solution that does not interface directly with ION Setup Vista may be considered acceptable, provided that it fully complies with the Works Information and does not compromise the functionality, performance, monitoring capabilities, or data availability of the existing utility management and monitoring systems.
4.7	**Document:** Smart Meters RFP Final 30.7.2026 **Clause / item:** C3.1 Works Information Please confirm whether the requirement for five inputs and six output contacts applies to all electricity meters specified in the tender, or only to the QOS meters required at the Port of Richards Bay.	As per clause 5.14 "Technical specification of the Electricity Meter" the specification applies to all Electricity Meters specified in the tender.
4.8	**Document:** Smart Meters RFP Final 30.7.2026 **Clause / item:** C3.1 Works Information Please confirm whether each electricity meter is required to support both Ethernet and GSM communication, or whether Ethernet communication alone	The Electricity Meter specification clearly states the meter must be compatible with both Ethernet and GSM communication.

No.	Bidders Questions	TNPA Responses
	will satisfy the tender requirements.	
4.9	**Document:** Smart Meters RFP Final 30.7.2026 **Clause / item:** C3.1 Works Information Please confirm whether it is mandatory for the proposed wireless network to achieve a direct communication range of 10 km, or whether a hybrid solution may be proposed where the required distance is achieved through a combination of wireless communication and Ethernet infrastructure.	The Works Information specifically requires a private wireless communication network with communication range of up to 10km.
4.10	**Document:** Smart Meters RFP Final 30.7.2026 **Clause / item:** C3.1 Works Information Please confirm whether data loggers are required for all water meters specified in the tender, including smaller meters such as 15 mm meters, or only for the major water meters.	Yes. Based on the Works Information and Pricing Schedule data loggers/ AMR interfaces are required for all water meters specified, including smaller diameter meters. All water meters are to be fitted with an AMR interface (IoT device) for logging of data and communicate to the closest gateway.
4.11	**Document:** Smart Meters RFP Final 30.7.2026 **Clause / item:** C3.1 Works Information Please confirm whether an alternative modern water meter may be proposed that does not use an impeller and instead operates with no moving mechanical components, thereby reducing mechanical wear and maintenance requirements.	The Employer will consider alternative water meter technologies, provided that the proposed meter fully complies with the functional, performance, AMR, communication and standard requirements specified in the Works Information. The meter shall have an analog display, a meter with a digital display will not be accepted.

No.	Bidders Questions	TNPA Responses
4.12	**Document:** Smart Meters RFP Final 30.7.2026 **Clause / item:** C3.1 Works Information Please confirm whether LoRa is a mandatory requirement for the wireless communication and interface, or whether Wireless M-Bus may be proposed as an acceptable alternative.	The Employer will consider alternative wireless communication technologies, provided that the proposed solution fully complies with the functional and performance requirements of the AMI system stated in the Works Information. Tenderers should note that the Works Information specifically requires: A private wireless communication network with communication range of up to 10km.
4.13	**<u>Other Matters</u> -** Other matters may also require clarification. The distinction is between describing what the system must achieve and specifying the equipment needed to achieve it.: • **Power-quality meters:** the required functionality and how these meters correspond to the BOQ's three-phase-meter lines.	The Port of Richards Bay currently utilizes the Adroit SCADA System, ION Setup Vista and ECWIN for the monitoring and management of utilities. This information is provided to make Tenderers aware of the existing systems to which the current meters are connected. Replacement of the existing meters may affect connectivity to these systems and result in the loss of monitoring. The Works Information requires the Contractor to reinstate all affected services on the existing systems following meter replacement and to integrate the new meters with the proposed Utility Management System. Power Quality Meters: • Measure and record voltage, current, power, energy, frequency, power factor, harmonics, voltage sags, swells, interruptions and transients. • Support power quality event logging and waveform capture.

No.	Bidders Questions	TNPA Responses
	• **Electricity meters:** any application-specific voltage, current, CT/direct-connection or communications requirements not adequately established by clause 5.14 and the site schedules.	The Technical Specification clearly provides the voltage range and communication protocol the Electricity Meters should support as well as the integration interface to the billing server and Utility Management. The following information is on the Works Information: • Voltage 3 x 58/100...240/415V • The meter must be compatible with Wi-Fi, Fibre, Ethernet and GSM/GRPS/LTE connection. Furthermore, the works include "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."
	• **External loggers:** whether separate electricity loggers are required or onboard logging is sufficient.	All Electricity Meters are to comply with the requirements specified in the Works Information including the provision of onboard data logging functionality. Hence, no separate external data loggers are specified.
	• **Current transformers:** the applicable ratios, secondary ratings, burden, accuracy and physical compatibility where these are not specified.	The scope involves replacement of existing meters whereby there are already existing CTs, hence the Works Information specifies the meter requirements and the existing CTs are to be utilized.
4.14	Please assist with the questions below, which will assist with the Telkom submission. 1. Please confirm whether the quantities of 24-port switches stated in the latest BOQ include the central/core aggregation switches at each port, or whether all listed switches are intended for field-level meter and gateway	1. Yes, the 24-port switches stated in the BoQ include the aggregation switch.

<table>
<tr><th>No.</th><th>Bidders Questions</th><th>TNPA Responses</th></tr>
<tr><td></td><td>connectivity.</td><td></td></tr>
<tr><td></td><td>2. If central aggregation switches are required, please confirm the required quantity, interface type and speed, redundancy arrangement, and whether two aggregation switches operating in a redundant or stacked configuration shall be provided at each port.</td><td>2. No additional aggregation switches required, the 24-port switches stated in the BoQ include the aggregation switches at each port.</td></tr>
<tr><td>4.15</td><td>We would like to kindly follow up on the outstanding queries below and would appreciate your clarification on the following items:</td><td></td></tr>
<tr><td></td><td>5.2.1 Building & Marine Depot (Berth 100) – Item 5.2.1.2
For the two (02) smart electricity meters, please confirm whether the required meters are single-phase or three-phase, and provide the maximum current rating of the installation, specifically the rating of the main breaker.</td><td><table><tr><th></th><th>Circuit</th><th>Main Breaker Rating</th></tr><tr><td>Main LV</td><td>Three-phase</td><td>1500A</td></tr><tr><td>Building & Marine Depot</td><td>Three-phase</td><td>250A</td></tr></table></td></tr>
<tr><td></td><td>5.2.2 Shameisher Langerberg (Building & Marine) – Item 5.2.2.2
For the two (02) smart electricity meters, please confirm the phase configuration (single-phase or three-phase) and the maximum current/main breaker rating.</td><td><table><tr><th></th><th>Circuit</th><th>Main Breaker Rating</th></tr><tr><td>Municipal Supply – Check Meter</td><td>Three-phase</td><td>250A</td></tr><tr><td>Main LV</td><td>Three-phase</td><td>150A</td></tr></table></td></tr>
<tr><td></td><td>5.2.3 Power Supplies and Services Depot – Item 5.2.3.1
As existing electricity meters with communication modules are indicated, please confirm the make and model of the existing smart meter(s), as well as the make, model, and type of communication board/module installed.</td><td>Landis+Gyr Meter, E650 with CU-XE communication module.</td></tr>
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<tr><th>No.</th><th>Bidders Questions</th><th>TNPA Responses</th></tr>
<tr><td></td><td>5.2.4 Pollution Control Depot – Item 5.2.4.1
For the four (04) smart electricity meters, please confirm the phase configuration (single-phase or three-phase) and the maximum current/main breaker rating.</td><td>All four circuits are three-phase, main breaker sizes 300A</td></tr>
<tr><td></td><td>5.2.5 Lighthouse Department – Item 5.2.5.2
For the two (02) smart electricity meters, please confirm the phase configuration (single-phase or three-phase) and the maximum current/main breaker rating.</td><td><table><tr><th></th><th>Circuit</th><th>Main Breaker Rating</th></tr><tr><td>Port Dynamic Analogue</td><td>Three-phase</td><td>800A</td></tr><tr><td>Lighthouse Admin</td><td>Three-phase</td><td>150A</td></tr></table></td></tr>
<tr><td></td><td>5.2.6 Workshop 24 – Item 5.2.6.2
For the six (06) smart electricity meters, please confirm the phase configuration (single-phase or three-phase) and the maximum current/main breaker rating.</td><td><table><tr><th></th><th>Circuit</th><th>Main Breaker Rating</th></tr><tr><td>Transformer 1 800kVA</td><td>Three-phase</td><td>1500A</td></tr><tr><td>Transformer 2</td><td>Three-phase</td><td>1500A</td></tr><tr><td>Canteen</td><td>Three-phase</td><td>300A</td></tr><tr><td>Clinic</td><td>Three-phase</td><td>200A</td></tr><tr><td>2x Rewired Circuits</td><td>Three-phase</td><td>100A</td></tr></table></td></tr>
<tr><td></td><td>5.2.7 Graving Dock – Item 5.2.7.2
For the three (03) smart electricity meters, please confirm the phase configuration (single-phase or three-phase) and the maximum current/main breaker rating.</td><td><table><tr><th></th><th>Circuit</th><th>Main Breaker Rating</th></tr><tr><td>Shore Supply 1</td><td>Three-phase</td><td>1000A</td></tr><tr><td>Shore Supply 2</td><td>Three-phase</td><td>400A</td></tr><tr><td>Phuthu Admin</td><td>Three-phase</td><td>150A</td></tr></table></td></tr>
<tr><td></td><td>5.2.8 Crane Supply Mini Substation – Item 5.2.8.2
For the three (03) smart electricity meters, please confirm the phase</td><td><table><tr><th></th><th>Circuit</th><th>Main Breaker Rating</th></tr><tr><td>Mini-sub Main</td><td>Three-phase</td><td>1200A</td></tr></table></td></tr>
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<tr><th>No.</th><th>Bidders Questions</th><th>TNPA Responses</th></tr>
<tr><td></td><td>configuration (single-phase or three-phase) and the maximum current/main breaker rating.</td><td>
<table>
<tr><td>Crane Supply 1</td><td>Three-phase</td><td>250A</td></tr>
<tr><td>Crane Supply 2</td><td>Three-phase</td><td>250A</td></tr>
</table>
</td></tr>
<tr><td></td><td>5.2.9 Building & Marine Depot (Methven Road) – Item 5.2.9.2
For the four (04) smart electricity meters, please confirm the phase configuration (single-phase or three-phase) and the maximum current/main breaker rating.</td><td>
<table>
<tr><th></th><th>Circuit</th><th>Main Breaker Rating</th></tr>
<tr><td>223 Depot</td><td>Three-phase</td><td>300A</td></tr>
<tr><td>High Mast Congella 1</td><td>Three-phase</td><td>100A</td></tr>
<tr><td>237 Spoornet</td><td>Three-phase</td><td>100A</td></tr>
<tr><td>Shunters Messroom</td><td>Three-phase</td><td>100A</td></tr>
</table>
</td></tr>
<tr><td></td><td>5.2.10 Point Clinic – Item 5.2.10.2
For the two (02) smart electricity meters, please confirm the phase configuration (single-phase or three-phase) and the maximum current/main breaker rating.</td><td>
<table>
<tr><th></th><th>Circuit</th><th>Main Breaker Rating</th></tr>
<tr><td>Point Clinic</td><td>Three-phase</td><td>200A</td></tr>
<tr><td>Bat Centre</td><td>Three-phase</td><td>200A</td></tr>
</table>
</td></tr>
<tr><td></td><td>5.2.11 Bay Terrace Building – Item 5.2.11.2
For the five (05) smart electricity meters, please confirm the phase configuration (single-phase or three-phase) and the maximum current/main breaker rating.</td><td>
<table>
<tr><th></th><th>Circuit</th><th>Main Breaker Rating</th></tr>
<tr><td>Main Breaker</td><td>Three-phase</td><td>1600A</td></tr>
<tr><td>Engine Garage</td><td>Three-phase</td><td>250A</td></tr>
<tr><td>Car Terminal</td><td>Three-phase</td><td>200A</td></tr>
<tr><td>New Project 2026</td><td>Three-phase</td><td>150A</td></tr>
<tr><td>Old Pump</td><td>Three-phase</td><td>400A</td></tr>
</table>
</td></tr>
</table>

<table>
<tr><th>No.</th><th>Bidders Questions</th><th>TNPA Responses</th></tr>
<tr><td></td><td>5.2.12 Queens Warehouse Building – Item 5.2.12.2
For the five (05) smart electricity meters, please confirm the phase configuration (single-phase or three-phase) and the maximum current/main breaker rating.</td><td>
<table>
<tr><th></th><th>Circuit</th><th>Main Breaker Rating</th></tr>
<tr><td>Main Breaker</td><td>Three-phase</td><td>1500A</td></tr>
<tr><td>Queens Warehouse Building</td><td>Three-phase</td><td>600A</td></tr>
<tr><td>Sever room</td><td>Three-phase</td><td>300A</td></tr>
<tr><td>Air-con Plant</td><td>Three-phase</td><td>300A</td></tr>
<tr><td>Berth 9</td><td>Three-phase</td><td>400A</td></tr>
</table>
</td></tr>
<tr><td></td><td>5.2.13 TNPA Security Maydon Wharf – Item 5.2.13.2
For the two (02) smart electricity meters, please confirm the phase configuration (single-phase or three-phase) and the maximum current/main breaker rating.</td><td>
<table>
<tr><th></th><th>Circuit</th><th>Main Breaker Rating</th></tr>
<tr><td>Main Breaker</td><td>Three-phase</td><td>1500A</td></tr>
<tr><td>Security Admin</td><td>Three-phase</td><td>250A</td></tr>
<tr><td>SAPS Admin</td><td>Three-phase</td><td>250A</td></tr>
</table>
</td></tr>
<tr><td></td><td>5.2.14 Cato Creek Yard – Item 5.2.14.1
For the two (02) smart electricity meters, please confirm the phase configuration (single-phase or three-phase) and the maximum current/main breaker rating.</td><td>
<table>
<tr><th></th><th>Circuit</th><th>Main Breaker Rating</th></tr>
<tr><td>Sewage Station</td><td>Three-phase</td><td>120A</td></tr>
<tr><td>Water Services</td><td>Three-phase</td><td>120A</td></tr>
</table>
</td></tr>
<tr><td></td><td>5.2.15 Manganese Yard – Item 5.2.15.1
For the one (01) smart electricity meter, please confirm the phase configuration (single-phase or three-phase) and the maximum current/main breaker rating.</td><td>
<table>
<tr><th></th><th>Circuit</th><th>Main Breaker Rating</th></tr>
<tr><td>Manganese & Berth 15 BPO</td><td>Three-phase</td><td>160A</td></tr>
</table>
</td></tr>
</table>

<table>
<tr><th>No.</th><th>Bidders Questions</th><th>TNPA Responses</th></tr>
<tr><td></td><td>5.2.16 Hokaido Yard – Item 5.2.16.1
For the two (02) smart electricity meters, please confirm the phase configuration (single-phase or three-phase) and the maximum current/main breaker rating.</td><td>
<table>
<tr><th></th><th>Circuit</th><th>Main Breaker Rating</th></tr>
<tr><td>High Mast</td><td>Three-phase</td><td>80A</td></tr>
<tr><td>Shunters Building</td><td>Three-phase</td><td>100A</td></tr>
<tr><td>Building Marine Depot</td><td>Three-phase</td><td>120A</td></tr>
</table>
</td></tr>
<tr><td></td><td>5.2.17 Fynnland Yard – Item 5.2.17.1
For the two (02) smart electricity meters, please confirm the phase configuration (single-phase or three-phase) and the maximum current/main breaker rating.</td><td>
<table>
<tr><th></th><th>Circuit</th><th>Main Breaker Rating</th></tr>
<tr><td>On Depo Mini</td><td>Three-phase</td><td>150A</td></tr>
<tr><td>High Masts Perimeter</td><td>Three-phase</td><td>200A</td></tr>
</table>
</td></tr>
<tr><td></td><td>5.2.18 Tank Washout Yard – Item 5.2.18.1
For the two (02) smart electricity meters, please confirm the phase configuration (single-phase or three-phase) and the maximum current/main breaker rating.</td><td>
<table>
<tr><th></th><th>Circuit</th><th>Main Breaker Rating</th></tr>
<tr><td>Main Breaker</td><td>Three-phase</td><td>1500A</td></tr>
<tr><td>Washout Admin</td><td>Three-phase</td><td>150A</td></tr>
</table>
</td></tr>
<tr><td></td><td>5.2.19 Kingsrest Yard – Item 5.2.19.1
For the three (03) smart electricity meters, please confirm the phase configuration (single-phase or three-phase) and the maximum current/main breaker rating.</td><td>
<table>
<tr><th></th><th>Circuit</th><th>Main Breaker Rating</th></tr>
<tr><td>Compressor</td><td>Three-phase</td><td>250A</td></tr>
<tr><td>Lighting</td><td>Three-phase</td><td>600A</td></tr>
</table>
</td></tr>
<tr><td></td><td>BOQ Submission Format

Lastly, we kindly request clarification regarding the BOQ submission requirements. May the completed Excel BOQ be converted to PDF format for submission, or is it required that the BOQ be completed and signed in ink prior to submission?</td><td>Tenderers are required to complete the BoQ on the RFP which is in PDF Format, the Excel can be submitted as an extra.</td></tr>
</table>

<table>
<tr><th>No.</th><th>Bidders Questions</th><th>TNPA Responses</th></tr>
<tr><td>4.16</td><td>Please confirm whether managed enterprise switches that are technically equivalent to or better than the specified Catalyst 9200L models will be accepted?</td><td>Yes, they will be accepted provide the tenderer demonstrates, through supporting documentation, that the proposed equipment meets or exceeds the specified equipment.</td></tr>
<tr><td>4.17</td><td>Please confirm whether the omitted quantities for managed switches, servers, fibre manholes, fibre splicing, and OTDR testing at the Port of Durban are intentional. If these items remain in scope, please issue the required quantities and confirm the applicable BOQ pricing lines.</td><td>The Port of Durban has an existing Local Area Network (LAN) and billing server to which the new meters are to be connected. However, the BoQ has since been amended to include the communication items previous omitted:
Added BoQ Line Items under section “D-Communication”
<table>
<tr><th>ITEM</th><th>DESCRIPTION</th><th>UNIT</th><th>QUANTITY</th><th>RATE</th></tr>
<tr><td>D</td><td>COMMUNICATION</td><td></td><td></td><td></td></tr>
<tr><td>1.6</td><td>Splicing of Fibres</td><td>No.</td><td>280</td><td></td></tr>
<tr><td>1.7</td><td>OTDR Testing (Test and submit line losses)</td><td>No.</td><td>280</td><td></td></tr>
<tr><td>1.8</td><td>Supply and Install industrial Gigabit Ethernet Media Converters (10/100/1000 Base-T RJ45 Ethernet interfaces)- Support full-duplex</td><td>No.</td><td>30</td><td></td></tr>
</table></td></tr>
<tr><td>4.18</td><td>Please confirm whether the 12-port managed switches have been removed from the scope or omitted from the latest BOQ. If still required, please provide the quantity per port and confirm whether a revised BOQ line will be issued or the cost must be included in another existing rate.</td><td>All network switches are to be 24-port managed switches as per the latest BOQ.</td></tr>
<tr><td>4.19</td><td>Please confirm whether '1 Sum' means one physical firewall appliance or one complete redundant firewall system comprising two appliances in a high-availability pair. Please also confirm the required redundancy mode, minimum availability, and whether all hardware, licences, subscriptions, support, and HA accessories must be included in this single sum.</td><td>The line item on the Firewall is to be priced as a complete solution. Tenderers shall provide all hardware, licences, accessories, support, and any other components necessary to deliver a fully functional firewall solution that complies with the requirement of the Works Information.</td></tr>
</table>

No.	Bidders Questions	TNPA Responses
4.20	In section "T2.2-13: Authority to submit a Tender" there is no provision made for close corporations. Does this mean that we are not allowed to bid as a CC? where do we will fill as provision has only been made for companies, partnerships, JV's & sole pro	**Refer to the Invitation to Tender:** Responses to this Tender are requested from persons, companies, close corporations or enterprises. It is estimated that tenderers must have a CIDB grading of 9CE. Close Corporation falls under A-Company and the Authority to submit returnable signed by the Company Director.
4.21	Please confirm whether eLTE-based communication may be proposed as an alternative to 868 MHz LoRa, provided the solution meets the required functional, technical and performance requirements	An alternative proposal will be considered provided that the proposed solution meets all functional, technical, licensing and performance requirements specified in the Works Information.
4.22	The RFP specifies 868 MHz LoRa for smart meter data backhaul. We understand that TNPA already has an eLTE network deployed across its facilities.	The Work Information clearly describes the proposed private wireless network for the smart meters; Tenderers shall not assume access to any other existing TNPA communication infrastructure unless explicitly stated elsewhere in the tender documentation.
4.23	**CIDB** Part 1: Please confirm whether the required CIDB grading must be held by the main bidder, or whether the main bidder may subcontract the construction component to a suitably CIDB-registered and graded contractor through a formal teaming and subcontracting	The main bidder must have a CIDB grading of 9CE, however, a Joint Venture is eligible to submit provided that the Joint Venture grading calculator generate the required CIDB grade of 9CE. Joint Venture (JV) Joint ventures are eligible to submit tenders subject to the following: 1. Every member of the joint venture is registered with the CIDB; 2. The lead partner has a contractor grading designation of not lower than one level below the required class of construction works under consideration and possesses the required recognition status; and 3. The combined Contractor grading designation calculated in accordance with the

No.	Bidders Questions	TNPA Responses
		Construction Industry Development Regulations is equal to or higher than a Contractor grading designation determined in accordance with the sum tendered for a 9CE class of construction work or a value determined in accordance with Regulation 25(1B) or 25(7A) of the Construction Industry Development Regulations *In relation to Subcontracting, it is not a must that a specialist contractor or service provider or consultant be registered on CIDB. It is advisable that the Tenderer makes use of T2.2-18 Schedule of Proposed Subcontractor for listing all the Subcontractors.
	Part 2: through a formal teaming and subcontracting agreement, without forming a joint venture.	Refer to the above response.
	Kindly confirm is suppliers with CIDB Grading of 9CE PE qualify for submission?	Yes, they do qualify for submission.
4.24	**Submission Structure** Submission structure: Can Transnet please provide clarification on the expected submission structure, specifically which documents should be included in the Mandatory, Essential, Non-Essential, and Other Supporting Documents folders?	Please refer to the RFP Pack, 1. Mandatory - Stage One eligibility criteria (T2.2-01 to T2.2-03) 2. Essential - Stage Two - Documents for evaluation purposes (Technical and TPPP) 3. Non-Essential - All other returnable documents in the RFP
4.25	We kindly request clarification regarding the power quality monitoring requirements specified on Pages 32 and 33 of the Scope of Works for the tender. **1. Power Quality Monitoring Parameters** The specification indicates that the Client requires monitoring of the quality of the electrical power. Kindly clarify whether the requirement is limited to	1. The Port of Richards Bay currently has Power Quality Meters install on their 11 kV network, however, they are old models hence the replacement included in the scope. These meters are connected to existing systems i.e. Adroit SCADA System,

No.	Bidders Questions	TNPA Responses
	monitoring the **power factor**, or whether the Client also requires monitoring of **harmonics/THD (Total Harmonic Distortion) on the power line**, as well as any other power quality parameters.	ION Setup Vista and ECWIN for the network monitoring and management of utilities. This information is provided to make Tenderers aware of the existing systems to which the current meters are connected. Replacement of the existing meters may affect connectivity to these systems and result in the loss of monitoring. The Works Information requires the Contractor to reinstate all affected services on the existing systems following meter replacement and to integrate the new meters with the proposed Utility Management System. Power Quality Meters shall: • Measure and record voltage, current, power, energy, frequency, power factor, harmonics, voltage sags, swells, interruptions and transients. • Support power quality event logging and waveform capture.
	2. CT Transformer Requirements and Substation Information For the meters to accurately monitor power quality at the substations where these quality meters are to be installed, appropriate **Current Transformers (CTs)** will need to be selected and installed. In order for us to determine the correct CT ratios and ratings, we require the **current rating (Amps) of the main breaker/incomer at each applicable substation.**	2. As this project involves the replacement of an existing meters, the current CT's are already in place; only the meter will be replaced.
	3. Could TNPA please provide the **Single-Line Diagrams (SLDs) for all substations** where the power quality meters are required to be installed?	3. The SLDs will be made available during construction should they be required for the execution of the Works.

No.	Bidders Questions	TNPA Responses
	These diagrams would assist us in confirming the relevant electrical characteristics, including the main breaker ratings, and in selecting the appropriate CTs and metering equipment. Your clarification and provision of the above information will assist us in accurately determining the technical requirements and pricing for the tender.	
4.26	We are currently preparing our response to the above-mentioned Request for Proposal and kindly request clarification on the following matters. **1. Confirmation of 450 mm Water Meter Requirement** The specification includes the following requirement: "Supply and install a new 450 mm water meter compatible with AMR technology including all necessary fittings, couplings, bolts, sealants etc." We respectfully request confirmation that the specified **450 mm water meter diameter** is correct and reflects the Employer's intended requirement. Should the specified size be correct, please confirm whether any additional requirements apply to this meter, such as minimum performance specifications, accuracy class, flow characteristics or approved metering technologies, beyond the stated AMR compatibility requirement. **2. Specialist Technology Supplier Participation** Please confirm whether a specialist technology supplier, equipment distributor or solution provider that is **not participating as a bidder, joint venture member or consortium partner** may provide metering equipment, software, technical support and commercial quotations to	1. The specified 450mm water meter diameter is correct and reflects the Employer's intended requirement. The Tenderers shall provide a meter that complies with the requirements in the Works Information, including compatibility with the specified AMR functionality and all applicable standards 2. Yes, such participation will not affect the eligibility or evaluation of tender submission.

No.	Bidders Questions	TNPA Responses
	multiple tenderers responding to this RFP. Furthermore, please confirm whether such participation would have any impact on the eligibility or evaluation of the respective tender submissions.	
	3. Authorised Distributor / Manufacturer Representation Please confirm whether bidders may propose metering equipment supplied through an **authorised distributor, reseller or technology partner arrangement**, provided that appropriate manufacturer authorisation, warranties, support commitments and product compliance documentation are submitted with the tender. We would appreciate your guidance on the above matters.	3. Yes.
4.27	**Site Visit**	There were four site visits arranged for all Tenderers as per the dates on the Advert and no further site visits will be arranged or entertained as this will prejudice other Bidders that did attend the pre-arranged site visits.

No.	Bidders Questions	TNPA Responses
		COMPULSORY TENDER CLARIFICATION MEETING A Compulsory Tender Clarification Meeting will be conducted virtually on Microsoft Teams **on 07 August 2026,** at **11:00am [10 O'clock]** for a period of ± two (2) hours. The Compulsory Tender Clarification Meeting will start punctually, and information will not be repeated for the benefit of Tenderers arriving late. SUPPLY AND INSTALLATION OF SMART WATER AND ELECTRICITY METERS WITH A SOFTWARE SOLUTION (UTILITIES MANAGEMENT) ACROSS THE EIGHT PORTS COMPULSORY BRIEFING SESSION | Meeting-Join | Microsoft Teams :PM 2020 Rev05 Page 1 of 7 Part T1: Tendering procedures T 1.1: Tender Notice and Invitation TRANSNET RANSNET NATIONAL PORTS AUTHORITY ENDER NUMBER: TNPA/2025/02/0002/89478/RFP ESCRIPTION OF THE WORKS: SUPPLY AND INSTALLATION OF SMART WATER AND ELECTRICITY METERS WITH A OFTWARE SOLUTION (UTILITIES MANAGEMENT) ACROSS THE EIGHT PORTS. **A non-compulsory site visit/walk will take place on the following days:** • **11 August 2026** for Eastern Region, Port of Richards Bay at 11:00am • **14 August 2026** for Central Region Port of Cape Town at 10:00am • **17 August 2026** for Western Region Port of PE at 10:00am • **19 August 2026** for Western Region Port of Mossel Bay at 10:00am
4.28	We would like to request clarification regarding the qualification requirements for the **Key Personnel** specified in the tender document. The tender indicates a requirement for key personnel with a **National Diploma in Computer. { Page 2 of 5}** Kindly confirm whether the following qualifications would be acceptable for the	Yes, the following qualification will be acceptable for the proposed key personnel (Network Architect Specialist): 1. National Diploma/Diploma in Computer Science 2. National Diploma/Diploma in Information Technology / Computer Information Systems 3. National Diploma/Diploma in Computer Engineering

No.	Bidders Questions	TNPA Responses
	proposed key personnel: 1. National Diploma/Diploma in Computer Science 2. National Diploma/Diploma in Information Technology / Computer Information Systems 3. National Diploma/Diploma in Computer Engineering 4. National Diploma/Diploma in Computer Systems 5. Any other qualification considered equivalent to the specified requirement Your clarification will assist us in ensuring that our submission fully complies with the tender requirements.	4. National Diploma/Diploma in Computer Systems 5. Other equivalent qualification considered equivalent is subject to evaluation by the Employer. Tenderers shall provide sufficient supporting information and documentary evidence to enable the Employer to assess the equivalence and relevance of the proposed qualification during the evaluation process.

Signed By	:	**Signed By**	:
Name:	: Sphelele Ngcobo	**Name**	: Phumza Mhlontlo
Designation	: Project Manager	**Designation**	: Commodity
Signature	: 	**Signature**	:
Date	: 14/ 10/ 2026	**Date**	: 14/10/2026