

TRANSNET NATIONAL PORTS AUTHORITY

TENDER NUMBER: TNPA/2024/06/0007/67960/RFP

DESCRIPTION: PROVISION OF SERVICES TO UPGRADE THE EXISTING TRANSNET NATIONAL PORTS AUTHORITY (TNPA) NATIONAL FIRE SERVICE INFRASTRUCTURE AND EQUIPMENT PROJECT (PHASE 2A) IN THE PORT OF CAPE TOWN FOR A PERIOD OF 1 (ONE) YEAR.

TRANSNET



TRANSNET SOC LTD

TENDER NUMBER: TNPA/2024/06/0007/67960/RFP

ADDENDUM NO: 05

DATED: 07 February 2025

The following information is furnished in addition to, in amplification and substitution of, matters contained in the tender documents issued in respect of the abovementioned work.

1. Part C2: Pricing Data (Bill of Quantities)

The bill of Quantities has been revised and substituted by the bill of Quantities appended as Annexure A.

This addendum must be signed and submitted with your tender.

Prepared By: _____

Phelokazi Madaki

A handwritten signature in black ink, appearing to read "Phelokazi Madaki", written over a horizontal line.

Date: 7 February 2025

Approved By: _____

Michael Hogg

A handwritten signature in black ink, appearing to read "Michael Hogg", written over a horizontal line.

Date: 7 February 2025

Tender number: TNPA/2024/06/0007/67960/RFP

FROM: _____

DATE: _____

TENDER NUMBER: TNPA/2024/06/0007/67960/RFP

PROVISION OF SERVICES TO UPGRADE THE EXISTING TRANSNET NATIONAL PORTS AUTHORITY (TNPA) NATIONAL FIRE SERVICE INFRASTRUCTURE AND EQUIPMENT PROJECT (PHASE 2A) IN THE PORT OF CAPE TOWN FOR A PERIOD OF 1 (ONE) YEAR.

Dear Sir / Madam

Receipt of **Addendum No. 05** dated **07 February 2025** is hereby acknowledged.

Kind regards

TENDERER

NOTE: The undersigned confirm that the following communications received from the Employer before the submission of this tender offer, amending the tender documents, have been taken into account in this tender offer.

Tender number: TNPA/2024/06/0007/67960/RFP

ANNEXURE A- REVISED BILLS OF QUANTITIES

PART 2: PRICING DATA

Document reference	Title	No of pages
C2.1	Pricing instructions: Option B	5
C2.2	The <i>Bill of Quantities</i>	119

C2.1 Pricing instructions: Option B

1. The *conditions of contract*

1.1. How the contract prices work and assesses it for progress payments

Clause 11 in NEC3 Engineering and Construction Contract, June 2005 and 2013 (ECC) Option B states:

Identified and defined terms	11	
	11.2	<p>(21) The Bill of Quantities is the <i>bill of quantities</i> as changed in accordance with this contract to accommodate implemented compensation events and for accepted quotations for acceleration.</p> <p>(22) Defined Cost is the cost of the components in the Shorter Schedule of Cost Components whether work is subcontracted or not excluding the cost of preparing quotations for compensation events.</p> <p>(28) The Price for Work Done to Date is the total of</p> <ul style="list-style-type: none"> the quantity of the work which the <i>Contractor</i> has completed for each item in the Bill of Quantities multiplied by the rate and a proportion of each lump sum which is the proportion of the work covered by the item which the <i>Contractor</i> has completed. <p>Completed work is work without Defects which would either delay or be covered by immediately following work.</p> <p>(31) The Prices are the lump sums, and the amounts obtained by multiplying the rates by the quantities for the items in the Bill of Quantities.</p>

This confirms that Option B is a re-measurement contract, and the bill comprises only items measured using quantities and rates or stated as lump sums. Value related items are not used. Time related items are items measured using rates where the rate is a unit of time.

1.2. Function of the Bill of Quantities

Clause 55.1 in Option B states, "Information in the Bill of Quantities is not Works Information or Site Information." This confirms that instructions to do work or how it is to be done are not included in the Bill, but in the Works Information. This is further confirmed by Clause 20.1 which states, "The *Contractor* Provides the Works in accordance with the Works Information." Hence the *Contractor* does **not** Provide the Works in accordance with the Bill of Quantities. The Bill of Quantities is only a pricing document.

1.3. Guidance before pricing and measuring.

Employers preparing tenders or contract documents, and tendering contractors are advised to consult the sections dealing with the bill of quantities in the NEC3 Engineering and Construction Contract (June 2005) Guidance Notes before preparing the *bill of quantities* or before entering rates and lump sums into the *bill*.

Historically bill of quantities-based contracts in South Africa have been influenced by the different approaches of the civil engineering and building sectors of the industry through their respective discipline based standard forms of contract and methods of measurement. This is particularly apparent in the approach to the Preliminary and General bill. On the other hand, because ECC caters for a number of disciplines in the same contract, including electrical works, a different approach not currently found in local methods of measurement to the Preliminary & General bill items may have been used.

The NEC approach to the P & G bill assumes use will be made of method related charges for Equipment applied to Providing the Works based on durations shown in the Accepted Programme, fixed charges for the use of Equipment that is required throughout the construction phase, time related charges for people working in a supervisory capacity for the period required, and lump sum charges for other facilities or services not directly related to performing work items typically included in other parts of the bill.

2. Measurement and payment

2.1. Symbols

The units of measurement described in the Bill of Quantities are metric units abbreviated as follows:

Abbreviation	Unit
%	percent
h	hour
ha	hectare
kg	kilogram
kl	kilolitre
km	kilometre
km-pass	kilometre-pass
kPa	kilopascal
kW	kilowatt
l	litre
m	metre
mm	millimetre
m ²	square metre
m ² -pass	square metre pass
m ³	cubic metre
m ³ -km	cubic metre-kilometre
MN	meganewton
MN.m	meganewton-metre

MPa	megapascal
No.	number
Prov sum ¹	provisional sum
PC-sum	prime cost sum
R/only	Rate only
sum	Lump sum
t	ton (1000kg)
W/day	Workday

2.2. General assumptions

- 2.2.1. Unless otherwise stated, items are measured net in accordance with the drawings, and no allowance has been made in the quantities for waste.
- 2.2.2. The Prices and rates stated for each item in the Bill of Quantities shall be treated as being fully inclusive of all work, risks, liabilities, obligations, overheads, profit, and everything necessary as incurred or required by the *Contractor* in carrying out or providing that item.
- 2.2.3. Clause 63.13 in Option B provides that these rates and Prices may be used as a basis for assessment of compensation events instead of Defined Cost.
- 2.2.4. Where this contract requires detailed drawings, designs, or other information to be provided, and no rates or prices are included in the *bill* specifically for such matters, then the *Contractor* is deemed to have allowed for all costs associated with such requirements within the tendered rates and Prices in the Bill of Quantities.
- 2.2.5. An item against which no Price is entered will be treated as covered by other Prices or rates in the *bill of quantities*. If several items are grouped together for pricing purposes, this will be treated as a single lump sum.

¹ Provisional Sums should not be used unless absolutely unavoidable. Rather include specifications and associated bill items for the most likely scope of work, and then change later using the compensation event procedure if necessary. This is because tenderers cannot programme effectively for unknown scopes of work

2.2.6. The quantities contained in the Bill of Quantities may not be final and do not necessarily represent the actual amount of work to be done. The quantities of work assessed and certified for payment by the *Project Manager* at each assessment date will be used for determining payments due and not the quantities given in the Bill of Quantities.

2.2.7. The short descriptions of the items of payment given in the *bill of quantities* are only for the purposes of identifying the items. More detail regarding the extent of the work entailed under each item is provided in the Works Information.

2.3. Amplification of or assumptions about measurement items

For the avoidance of doubt the following is provided to assist in the interpretation of descriptions given in the *method of measurement*. In the event of any ambiguity or inconsistency between the statements in the *method of measurement* and this section, the interpretation given in this section shall be used.

C2.2 The *Bill of Quantities*

Item No	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
		<p><u>BILL OF QUANTITIES</u></p> <p>NOTES</p> <p>In accordance with the NEC3 contract, this is an Option B: Remeasurement priced contract with bill of quantities.</p> <p>The Employer provides the bill of quantities which is priced by the Contractor.</p> <p>The contract price is the sum of prices for all items in the bill which may include lump sums for certain items.</p> <p>When the work is done, if it is found by remeasurement that the estimated quantity is not correct, it is corrected, and payment is made to the Contractor to reflect the actual work conducted.</p>				

Item No	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
		<p>The monetary amounts that the Contractor fills in, in this document, shall be deemed to be algebraically accurate and fully inclusive of the following:</p> <p>Inductions, permitting, all SHERQ requirements as per the Employer's requirements, risk assessments by relevant authorities as determined by the Employer and Statutory Bodies, inspections and audits, planning, all Plant and Materials and Equipment required to undertake the complete scope of the works, access requirements for Plant and Materials and Equipment, certification of Equipment and vessels, fuels and lubricants and any other consumables, demolition and disposal of existing materials and equipment, all diving work below water and on the water surface, underwater installation by diving, procurement, offloading, material and equipment handling, storage, fabrication, equipment and infrastructure refurbishment, testing, modifications, welding, bolting, production, corrosion protection, rigging, trial fitting, marking, packing, transportation, mechanical and civil land structural and electrical and control installations, electrical and control system hook-ups and wiring, punch listing, cold and hot commissioning, trial operation, handover and project management and any other requirements not specifically mentioned but required as per industry and engineering and construction legislation and requirements.</p>				

Item No	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
	SANS 1200 A	<u>SECTION 1</u> <u>PRELIMINARY AND GENERAL</u> <u>BILL NO.1: PRELIMINARIES</u> PREAMBLES Fixed preliminary items Fixed preliminary items will be valuated and paid on a proven cost basis up to the total value Time related preliminary items Time related preliminary items will be paid on the proportion of: Value of the price of work done to date per the Project Manager's assessment (excluding activities related to materials, escalation, and compensation events) over the contract value excluding preliminaries costs <u>FIXED-CHARGE ITEMS</u> <u>Contractual requirements</u>				
1.		Permits and Site Access	sum	1.00		
2.		Establishment of Facilities on the Site	sum	1.00		
3.		Supply and install electrical connection on site camp	sum	1.00		
4.		Supply and install a water connection to site camp	sum	1.00		
5.		Removal of site establishment.	sum	1.00		
6.		Rehabilitation of site	sum	1.00		
Total Carried Forward						

Item No	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
7.		Compilation and provision to the Employer of all as-built documentation and any other associated contract documentation, including but not limited to hard copy as built drawings, operations, and maintenance where applicable	sum	1.00		
8.		Cost for compliance to Environmental Management Plan	item	1.00		
9.		Tools and Equipment	sum	1.00		
10.		Cost for compliance to construction regulation	item	1.00		
11.		All other contractual obligations	sum	1.00		
12.		Hoarding and sign boards	sum	1.00		
13.		Cost compliance to Health & safety and Quality regulation.	sum	1.00		
<u>TIME-RELATED ITEMS</u>						
14.		Company and head office overhead costs for duration of construction.	months	12.00		
15.		On site staff	months	12.00		
16.		Supervision for the duration of the project.	months	12.00		
17.		Accommodation office for site employees	months	12.00		
Total Carried Forward						

Item No	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
18.		Lockable site office for the use of Employer's staff (minimum size 3m x 5m) including the following services: Daily cleaning, 230V AC power, telecommunication facilities, office furniture (minimum of 2).	months	12.00		
19.		Ablution and latrine facilities	months	12.00		
20.		Provision of water and electricity	months	12.00		
21.		On site security to protect the contractor's assets	months	12.00		
22.		Cost for compliance to Health and Safety regulation	months	12.00		
23.		Cost for compliance to Environmental Management Plan	months	12.00		
24.		Cost for compliance to Quality Management Plan	months	12.00		
25.		Tipper truck (to the nearest dump site does not exceed 60km radius)	no.	50.00		
26.		TLB	Hrs	40.00		
27.		Crane	Hrs	250.00		
28.		Provision of Waste bins	months	12.00		
29.		Scaffolding	months	12.00		
30.		Tools and equipment.	months	12.00		
END OF SECTION 1						
Total Carried Forward						
Total of Section 1 Carried Forward to Final Summary						R

Item No	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
	SANS 1200 B	<p><u>SECTION 2: CIVIL WORKS</u></p> <p><u>BILL 1: ALTERATIONS</u></p> <p>PREAMBLES</p> <p>For preambles refer to "Model Preambles for Trades"</p> <p>SUPPLEMENTARY PREAMBLES</p> <p>Demolitions and Works on Site</p> <p>The Contractor will be held solely responsible for any damage to persons and property and for the safety of the structures.</p> <p>Old materials from alterations except were described to be re-used or handed over, become the property of the contractor</p> <p>Old materials to be carted away</p> <p>Old materials from alterations except were described as re-used or handed over, as well as all rubbish, etc. must be regularly carted from the site and not be allowed to accumulate on or around the site.</p> <p>Old materials to be re-used</p> <p>None of the old materials are to be used for new work except where specifically described as being set aside for re-use.</p> <p>Handing over of materials</p>				

Item No	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
		<u>General</u>				
		The contractor shall carry out the whole works with as little mess and noise as possible and with a minimum of disturbance to the occupants of the building. The contractor shall provide proper protection and provide, erect, and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the Client's Project Manager.				
		<u>Existing services</u>				
1.		Detection, exposure, protection, and alterations to existing services	Sum	1		
		<u>SITE CLEARANCE</u>				
2.		Demolish and remove structures/buildings and dismantle steelworks, etc.	Sum	1		
3.		Breakup existing bituminous surfaces	m2	1850		
		<u>REMOVAL OF EXISTING WORK</u>				
4.		Removal of an existing structural steel staircase	no.	1		
5.		Removal of existing mezzanine floor including supporting beams and posts	m2	270		
6.		Removal of existing drywall partitioning.	m2	154		
7.		Removal of an existing structural steel walkway, including supports	m2	49		
8.		Removal of an existing Prefabricated container	no.	1		
Total Carried Forward						

Item No	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
9.		Remove existing roof sheeting's. <u>Taking out Aluminium windows including windowsills and Aluminium blinds.</u>	m2	1142		
10.		600 x 900mm window	no.	15		
11.		1500 x 500mm window	no.	4		
12.		3300 x 1615mm window	no.	1		
13.		2000 x 950mm window	no.	3		
14.		4300x 1700mm window	no.	3		
15.		4300x 425mm window	no.	3		
16.		2460 x 1615mm window	no.	6		
17.		3630 x 1540mm window	no.	4		
18.		3070 x 2630mm window	no.	1		
19.		1000 x 2805mm window	no.	6		
20.		1570 x 3260mm window	no.	1		
21.		3300x 2125mm window	no.	2		
22.		600 x 500mm window	no.	1		
23.		1200 x 1560mm window	no.	4		
24.		Remove existing windowsills	m2	220		
Total Carried Forward						

Item No	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
25.		<u>Taking out timber doors including steel frames</u> Remove 910x2100mm two panel door including steel frame and make good of surface	no.	11		
26.		Remove double fire door including frame and make good of surface	no.	2		
		<u>DEMOLITION</u>				
27.		Break down and remove existing 230mm thick brick wall	m2	15		
28.		Break down and remove existing 115mm thick brick wall	m2	95		
29.		Break down and remove existing concrete floor, (ground floor for lift and fire truck parking) with average depth of 300mm	m2	130		
		<u>OPENINGS THROUGH EXISTING FLOOR</u>				
30.		Break down and remove existing concrete	m3	116.85		
		<u>REMOVAL OF EXISTING FENCING</u>				
31.		Take down and remove Steel fence approximately 2.4m high	m	157.78		
32.		Double gate 4m x 1.8m high.	no.	2		
33.		Cut through 150 thick existing floor slabs.	m2	60		
Total Carried Forward						

Item No	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
34.		<u>ADDITIONS</u> <u>Cladding</u> Aluminium systems or equally approved aluminium composite panel cladding comprising of composite aluminium panels, consisting of a 0.5mm thick aluminium alloy AA3004 facing sheet bonded to a polyethylene core, fixed to aluminium sub-structure with side surround toggled to captive nut rail fixed to sub-structure with minimum fixing zone of 110mm. The whole to be designed and installed by an approved specialist, all in accordance with the manufacturer's instructions.	m2	737		
Total Carried Forward to Section Summary						R

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
	SANS 1200 D	<p><u>BILL NO. 2: EARTHWORKS</u></p> <p><u>PREAMBLES</u></p> <p>The Contractor is referred to the relevant clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in this Bill</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>View site</u></p> <p>Before submitting his tender, the contractor shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained</p> <p><u>General</u></p> <p>Carting away of excavated material</p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stockpiles situated on the building site</p>				

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
1.	SANS 1200DA	<u>Breaking of existing brick structures</u> Completely breakdown and remove existing brick structures. Including the demolition of substructure components and dispose to a site identified by the contractor. All safe environmental protocols to be adhered to.	no.	1		
2.		<u>EXCAVATION</u> <u>Excavation in earth.</u> Trenches not exceeding 2m deep	m3	26		
3.		Excavation for carport bases not exceeding 2m deep	m3	40		
4.		Holes not exceeding 2 m deep	m3	12		
5.		Excavation in earth not exceeding 2m deep for pipe trenches	m3	42		
6.		Lift pit exceeding 2m deep	m3	14.00		
7.		<u>Earthworks-Pipe and chamber (Small works)</u> <u>Restricted excavation</u> Restricted excavation for manholes in all materials and use for backfilling or dispose	m3	18.00		
8.		Extra-over for intermediate excavation	m3	3.60		
9.		Extra-over for hard rock excavation	m3	1.80		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
10.	SANS 1200 LC	<u>Bases Compaction</u> Rip, scarify and compact 150mm thick in-situ material to 90% Mod AASHTO for manholes, valve chambers, effluent separation tank and building foundations	m3	2.50		
11.		<u>Excavation-Communication Reticulation</u> Excavate in all materials for trenches, backfill, compact, and dispose of surplus material	m3	88.00		
12.		<u>Extra over items</u> Intermediate excavation	m3	18.00		
13.		Excavate unsuitable material from trench bottom and dispose of it	m3	9.00		
14.		<u>Manholes</u> Excavate, supply, and construct light duty electrical manholes	no.	5		
15.		<u>Excavate for holes and trenches not exceeding 2 m deep.</u> Soft rock at 10%	m3	15.49		
16.		Hard rock at 5%	m3	6.64		
17.		Risk of collapse to sides of trenches not exceeding 2m deep	m2	42.13		
18.		Risk of collapse to sides of the trenches exceeding 2m deep.	m2	10		
19.		Extra over excavation for cart away surplus excavated material	m3	22.13		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
20.		Cart away material to a dumping site to be located by the contractor not exceeding 60km radius. <u>Back excavation of vertical sides of excavations in earth for working space Including backfilling compacted to 98% Mod AASHTO density</u>	m3	936.4		
21.		Exceeding 500mm and not exceeding 1.5m deep	m2	15		
22.		Exceeding 1.5 m and not exceeding 3m deep <u>Risk of collapse of excavations</u>	m2	22		
23.		Sides of trench and hole excavations not exceeding 1,5m deep <u>Keeping excavations free of water</u>	m2	86		
24.		Keeping excavations free of all water other than subterranean water <u>Filling etc, other than bulk excavation</u>	no.	16		
25.		Earth filling obtained from the excavations and/or prescribed stockpiles on site, compacted to 95% Mod AASHTO density.	m3	90		
26.		Filling with G2 graded crushed stones supplied and carted onto site by the contractor, compacted in layers of 150mm to a density of at least 98%Mod.AASHTO	m3	90		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
27.		Filling with G4 graded crushed stones supplied and carted onto site by the contractor, compacted in layers of 150mm to a density of at least 98%Mod.AASHTO	m3	90		
28.		Filling with G7 graded crushed stones supplied and carted onto site by the contractor, compacted in layers of 150mm to a density of at least 98% Mod AASHTO	m3	90		
29.		Filling with G5 supplied and carted onto site by the contractor, compacted in layers of 150mm to a density of at least 95% Mod AASHTO	m3	90		
30.		150mm RIP and recompact in-situ to 98% Mod AASHTO	m3	90		
<u>Pavement Parking</u>						
31.		Cut to spoil in one operation to a dump site located by the contractor	m3	1246.46		
<u>Walkways Paving</u>						
32.		Cut to spoil in one operation to a dump site located by the contractor not exceeding 60km radius from the site	m3	55.67		
33.		Cart away surplus material to dumpsite located by contractor not exceeding 60 km radius	m3	140		
<u>Compaction of surfaces</u>						
34.		Compaction of ground surfaces, including scarifying for a depth of 150mm, compacted to 98% Mod AASHTO density	m2	510		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
35.		<u>Soil poisoning</u> Soil insecticide in accordance with SANS 5859, to bottom and sides of trenches	m2	510		
36.		<u>Testing</u> DCP testing on the underlaying soil.	no.	18		
37.		<u>Supply, lay, bed, and prove duct</u> Supply, lay, bed, and prove SANS 61386-24 approved 110mm diameter flexible HDPE ducts	m	524		
38.		Supply and install SANS 61386-24 approved draw wires	m	2010		
Total Carried Forward to Section Summary						R

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
1.	SANS 1200 LD	<u>BILL NO.3: SEWER AND STORMWATER</u>				
		<u>SEWER</u>				
		<u>Sewer (Guard House)</u>				
		<u>Supply, lay, mount joint, bed, and test pipeline</u>				
		Supply, lay, mount, joint, bed and air test 40mm dia. Class 9 u-PVC	m	35		
		<u>Connecting to existing sewer</u>				
2.		Excavate, break, connect to and re-build the existing connecting manhole	sum	1		
3.		Supply, deliver, install, and commission pump system	no.	1		
Total Carried Forward to Section Summary						R

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
		<u>BILL NO.4: ROADWORKS AND PARKING</u>				
		<u>SUPPLEMENTARY PREAMBLES</u>				
		<u>ASPHALT BASE AND SURFACING</u>				
		<u>Removal of topsoil</u>				
1.	SANS 1200 DM	Remove topsoil to a nominal depth of 150 mm, stockpiling and maintaining	m3	30.00		
		<u>Treatment of roadbed</u>				
2.		Roadbed preparation and compaction of material to minimum of 90% MAMDD (100% sand)	m3	300		
		<u>Cut to fill</u>				
3.		Compact to 90% MAMDD (100% for sand)	m3	25		
	SANS 1200 MH	<u>Asphalt surfacing:</u>				
4.		40mm thick Continuously graded Asphalt, 50/70 penetration grade bitumen	ton	180		
5.		100mm cores in Asphalt	no.	2		
6.		Construct 150mm G2 cement stabilised base compacted to 95% Mod AASHTO density	m3	285.67		
7.		Construct G4 subbase layer 150mm thick obtained from commercial sources, mix, shape and compact to 95% Mod AASHTO density.	m3	85.67		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
8.		Construct G7 subbase layer 150mm thick obtained from commercial sources, mix, shape and compact to 93% Mod AASHTO density	m3	285.67		
9.		150mm IN-SITU sub grade compacted to 93% Mod AASHTO density	m3	285.67		
<u>Prime Coat</u>						
10.		Emulsion prime Spray type Colprime or similar approved.	m2	1850		
<u>Variation in quantity of</u>						
11.		Prime	m2	1850		
12.		Tack	m2	1850		
13.		Bituminous binder (50/70 penetration grade)	t	0.80		
<u>PAVEMENT LAYERS</u>						
14.		Supply and lay 80mm paving blocks Type S-A, Class 35 with chamfers in herring-bone pattern and 20mm sand bedding layer	m2	150		
15.		20mm Sand blinding (river sand)	m3	6		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
16.	SANS 1200 ME	<u>Subbase</u>				
		<u>Construct subbase course with material from commercial sources</u> 150mm thick to Asphalt Platform (G4 material compacted to 95% MAMDD)	m3	270		
17.		150mm thick to S-A Block paving (G5 material compacted to 95% MAMDD)	m3	30		
	SANS 1200 MF	<u>Base</u>				
		<u>Construct base with material from commercial sources:</u> 150mm thick (G2 material compacted to 98% MAMDD) to Asphalt platform	m3	270		
19.		<u>KERBS AND CHANNELS</u> Cast IN-SITU backing concrete channel. Refer to drawing pack.	m	31		
20.		20/19mm Pre-cast concrete barrier kerb for straight kerbing (Fig. 4) 150mm. Refer to drawing THB-106 N6-2096-SH-42	m	31		
21.		Screed 70mm thick screed	m	31		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
	SANS 1200 MM	<u>ROAD MARKINGS</u>				
		<u>Road marking paint</u>				
		<u>White lines (broken or unbroken)</u>				
22.		100 mm wide	m	500		
23.		300 mm wide	m	60		
24.		White lettering and symbols	m2	5		
		<u>Setting out and pre-marking</u>				
25.		Lines	km	0.35		
		<u>Yellow lines (broken or unbroken)</u>				
26.		150 mm width	m	15		
27.		Yellow characters and symbols	m2	16		
28.		Setting out and pre marking the lines (Excluding traffic island markings lettering and symbols)	km	0.35		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
29.		<u>COVERED PARKING BAY</u> Parking canopy. Refer to Drawing No. SLA-0007-01.	m2	163.00		
30.		75mm diameter UPVC down pipe (UPVC Gutter to drain to Harvesting tanks)	m	125,40		
31.		Supply, deliver and install 10 kl Rainwater Harvesting tank.	no.	4		
32.		110mm diameter UPVC Down pipe (Main Building)	m	51		
33.		75mm diameter UPVC Down pipes (Guard House)	m	6		
<u>FENCING</u>						
<u>Excavations and concrete measured in respective trades</u>						
<u>Fencing:</u>						
34.		Construct 1,8 m high security fence complete to detail including Welded mild steel wrap panel, 100mm high galvanised "shark tooth" type spike rails, 60mm-75 single bolt clamping plate and 60mm-175 double bolt clamping plate. Refer to drawing no.SLA-0008-01	m	180		
35.		Supply, deliver and install 1.5 m high galvanised fence screen netting. Refer to drawing no.SLA-0008-01	m	95		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
36.		Extra over item 85mm- 45mm taper post sealed with UV stabilized with 12mm diameter base pin.	no.	164		
<u>VEHICLE ACCESS SLIDING GATE</u>						
37.		Steel frame welded to gated post including 100mm x 100mm x 5mm Gate post. (6 m long) including automation as per the works information. Refer to drawing no.SLA-0008-01	no.	1		
38.		Extra over Steel frame welded to gated post, rollers bolted to frame 3.78m Angle iron track, handle with padlock Welded mild steel wrap panel.	no.	1		
<u>PEDESTRIAN ACCESS SLIDING GATE</u>						
39.		100 x 100 x 5mm Gate post with Hinges, 75 x 75 x 2mm Square tubing, Welded mild steel wrap panel and Handle with padlock (2,6 m) as per the works information. Refer to drawing no.SLA-0008-01.	no.	1		
<u>TRAFFIC SIGNAL</u>						
40.		Supply and Install Traffic light (6m high). Refer to drawing no.SLA-0009-01.	no.	4.00		
<u>FLAGPOLE</u>						
41.		60mmØ X 4.5mm Galvanised steel PIPE. Refer to drawing no.SLA-0009-01.	m	2.8		
42.		50mmØ X 4mm Galvanised steel PIPE	m	10		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
43.		152 x 32mm Galvanised steel Rope cleat	no.	2.00		
44.		60mm Ø X 3mm end capping and 30mm diameter pulley	no.	2.00		
Total Carried Forward to Section Summary						R

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
		<p><u>BILL NO. 5: CONCRETE, FORMWORK AND REINFORCEMENT</u></p> <p><u>PREAMBLES</u></p> <p>The Contractor is Referred to the relevant Clauses in the separate document Model Preambles for Trades (2017 Edition) and to the Supplementary Preambles which are incorporated in this Bill</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Cost of tests</p> <p>The costs of making, storing, and testing of concrete test cubes as required under clause 7 'Tests' of SANS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Engineer. The testing shall be undertaken by an independent firm or institution nominated by the Contractor to the approval of the Engineer (Test cubes are measured separately)</p> <p>Formwork</p> <p>Descriptions of formwork shall be deemed to include use and waste only (except were described as left in or permanent), for fitting together in the required forms, wedging, plumbing, and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use</p>				

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
1.	SANS 1200 G	Formwork to sides of bases, pile caps, ground beams, etc., have been measured provisionally and will only be paid for where it is specifically prescribed by the Project Manager for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in Earthworks				
		<u>15MPa/19mm unreinforced concrete</u>				
		50mm blinding to trenches, bases etc.	m3	50.00		
		<u>30MPa/19mm reinforced concrete</u>				
2.		Strip footing	m3	30.00		
3.		Pad footing	m3	20.00		
4.		Concrete Plinth	m3	25.00		
5.		Bases	m3	20.00		
6.		Lift pit bases	m3	15.00		
7.		Lift pit walls	m3	30.00		
8.		Surface bed	m3	68.00		
9.		Filling to cavity of hollow walls	m3	12.00		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
10.		Concrete roof slab and beams	m3	88.00		
		<u>Encasement of cable ducts</u>				
11.		Encasement of 110mm HDPE cable ducts in grade 30/19 mm concrete	m3	93.00		
		<u>Skim Coating</u>				
12.		Skim coat to cover all imperfections in concrete walls	m3	60		
		<u>Mass concrete 15Mpa/19mm stone in footing cast against excavated surface.</u>				
13.		Concrete base and ground beam	m3	22		
		<u>Test cubes</u>				
14.		Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional) (Set of 6)	no.	42.00		
		<u>FORMWORK</u>				
15.		Rough formwork to sides of Bases	m2	20.00		
16.		Lift pit walls	m2	36.00		
17.		Smooth formwork to sides and soffits of slab	m2	43.00		
18.		Smooth formwork to beams	m2	10.00		
		<u>Finishing top surfaces of concrete smooth with a power float</u>				
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
19.		Surface beds, slabs, etc.	m2	436.00		
		<u>REINFORCEMENT (CPAP WORK GROUP NO. 114)</u>				
		<u>High tensile steel reinforcement to structural concrete work</u>				
20.		Various Diameter bars. (All in accordance with engineers' details), concrete plinths, bases et.	ton	7.5		
21.		All diameter bars in lift base and walls.	ton	6		
22.		All diameter bars beams and slabs	ton	26		
23.		All diameter bars Pad and strip footing	ton	7.2		
		<u>MOVEMENT JOINTS</u>				
		<u>Expansion joints with bitumen impregnated soft board between vertical concrete and brick surfaces</u>				
24.		Not exceeding 300mm wide	m	23.00		
		<u>Fabric reinforcement</u>				
25.		Type 395 Mesh reinforcement in concrete surface beds etc.	m2	839.00		
26.		Type 888 Mesh reinforcement in concrete surface beds, etc.	m2	22.00		
Total Carried Forward to Section Summary						R

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
		<u>BILL NO.6: MASONRY</u>				
		<u>MASONRY</u>				
		<u>PREAMBLES</u>				
		For preambles see "Model Preambles for trades (2008 Edition)" and applicable Supplementary Preambles as specified in the Trades. The said Model and Supplementary Preambles apply to all work described in this document. Tenderers are therefore referred to these documents for the full meaning and intention of all descriptions and no claims of any kind whatsoever will be entertained in this regard.				
		<u>SUPPLEMENTARY PREAMBLES</u>				
		<u>Brickwork</u>				
		<u>Substructure</u>				
1.		280mm thick brickwork in foundation	m2	24		
2.		115mm thick brickwork in foundation	m2	10		
		<u>Superstructure</u>				
3.		280mm thick Cavity wall	m2	94		
4.		230mm thick wall	m2	24		
5.		115mm thick wall	m2	174		
6.		500mm mass brick wall	m3	4		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
7.		<u>Face brickwork</u> 280mm thick Extra over brickwork for face brickwork on one side	m2	94		
9.		<u>Brickwork reinforcement</u> 75mm wide reinforcement built horizontally	m	577		
10.		150mm wide reinforcement built horizontally.	m	584		
Total Carried Forward to Section Summary						R

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
1.		<p><u>ALL PAINTING TO BE DONE TO TNPA MARINE SPECIFICATION AND RELEVANT</u></p> <p><u>MANUFACTURER'S INSTRUCTIONS. OWNER TO VERIFY COLOUR.</u></p> <p>Supply and apply water based intumescent coating to all shutter ply boarding (top surface and under side)</p>	sum	1		
2.		<p>Supply and apply three-layer intumescent coating (corrosion protective primer, base coat, and top seal) to all structural steel components</p>	sum	1		
Total Carried Forward to Section Summary						R

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
1.		<u>BILL NO.7: WATER PROOFING</u> <u>Damp proofing of walls and floors</u> 350 Micron UPVC plastic under slab	m2	861.00		
2.		<u>SEALING STRIPS, JOINTS SEALANTS, ETC</u> An approved sealant on backing cord in accordance with manufactures specification	m	232		
Total Carried Forward to Section Summary						R

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
		<u>BILL NO.8: SANITARY FITTINGS</u>				
		<u>Supply, deliver and Install Sanitary fittings. All items must be referenced according to the design and specifications provided in the drawing pack.</u>				
1.		900mm W x 600mm Double sink	no.	2		
2.		High pressure shower head	no.	8		
3.		Shower drain with stainless steel grid. 100x100mm	no.	8		
4.		Shower mixers tap and column at 900mm high	no.	8		
5.		Shower curtain including rod 1m wide	no.	8		
6.		SS Sink (kitchen). 900mm W x 600mm	no.	1		
7.		Hand wash basin. 550mm W x 400mm	no.	11		
8.		Toilet Pans including seats	no.	8		
9.		Flushing cisterns D- code 385x170mm	no.	8		
10.		Urinal including flush valves. 750mm high	no.	6		
Total Carried Forward to Section Summary						R

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
		<u>BILL NO.9: CARPENTRY AND JOINERY</u> <u>PREAMBLES</u> The contractor is Referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in this Bill Replace windows with double glazed window including sills and blinds <u>PURPOSE MADE ALUMINIUM WINDOWS:</u> WO1 Supply and install as per drawings, aluminium window 600 x 900mm high overall. Refer to drawing no.ASC-0003-01. WO2 Supply and install as per drawings, aluminium window 600 x 900mm high overall. Refer to drawing no.ASC-0003-01. WO3 Supply and install as per drawings, aluminium window 1500 x 500mm high overall. Refer to drawing no.ASC-0003-01. WO4 Supply and install as per drawings, aluminium window 3300 x 1615mm high overall. Refer to drawing no.ASC-0003-01. WO5 Supply and install as per drawings, aluminium window 2000 x 950mm high overall. Refer to drawing no.ASC-0003-01.				
1.		WO1 Supply and install as per drawings, aluminium window 600 x 900mm high overall. Refer to drawing no.ASC-0003-01.	no.	11		
2.		WO2 Supply and install as per drawings, aluminium window 600 x 900mm high overall. Refer to drawing no.ASC-0003-01.	no.	4		
3.		WO3 Supply and install as per drawings, aluminium window 1500 x 500mm high overall. Refer to drawing no.ASC-0003-01.	no.	4		
4.		WO4 Supply and install as per drawings, aluminium window 3300 x 1615mm high overall. Refer to drawing no.ASC-0003-01.	no.	1		
5.		WO5 Supply and install as per drawings, aluminium window 2000 x 950mm high overall. Refer to drawing no.ASC-0003-01.	no.	3		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
6.		W08 Supply and install as per drawings, aluminium window 4300x 1700mm high overall. Refer to drawing no.ASC-0003-01.	no.	3		
7.		W09 Supply and install as per drawings, aluminium window 4300x 425mm high overall. Refer to drawing no.ASC-0003-01.	no.	1		
8.		W10 Supply and install as per drawings, aluminium window 4300 x 425mm high overall. Refer to drawing no.ASC-0003-01.	no.	2		
9.		W11 Supply and install as per drawings, aluminium window 2460 x 1615mm high overall. Refer to drawing no.ASC-0003-01.	no.	6		
10.		W12 Supply and install as per drawings, aluminium window 3630 x 1540mm high overall. Refer to drawing no.ASC-0003-01.	no.	4		
11.		W13 Supply and install as per drawings, aluminium window 3070 x 2630mm high overall. Refer to drawing no.ASC-0002-01.	no.	1		
12.		W15 Supply and install as per drawings, aluminium window 1000 x 2805mm high overall. Refer to drawing no.ASC-0002-01.	no.	6		
13.		W16 Supply and install as per drawings, aluminium window 1570 x 3260mm high overall. Refer to drawing no.ASC-0002-01.	no.	1		
14.		W17 Supply and install as per drawings, aluminium window 3300x 2125mm high overall. Refer to drawing no.ASC-0002-01.	no.	2		
15.		Supply, deliver and install as per drawings, aluminium top hung window 600 x 500mm high overall.	no.	1		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
16.		Supply, deliver and install as per drawings, aluminium sliding window 1200 x 1560mm high overall.	no.	4		
		<u>LOUVRE</u>				
17.		1200 X 1000mm weather louvre	no.	1		
18.		1250 X 1000mm weather louvre	no.	3		
19.		500 X 500mm weather louvre	no.	1		
		<u>DOORS</u>				
		<u>Galvanized steel doors</u>				
		<u>SUPPLY AND INSTALL</u>				
		<u>PURPOSE MADE:</u>				
20.		Aluminium door 900x2032mm	no.	40		
21.		Anti bandit door 930x2095mm	no.	1		
		<u>FIRE RATED DOORS</u>				
22.		D15 Aluminium double door 1800x2032mm	no.	1		
23.		D8 fire rated hardboard double door	no.	3		
		<u>POWDER COATED ALUMINIUM</u>				
		<u>SECTIONAL ROLL UP & TILT</u>				
		<u>SECTIONAL OVERHEAD TYPE</u>				
24.		Supply and install 4500 x 4000mm heavy duty roller shutter with motor.	no.	2		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
25.		<u>BLINDS</u> An approved horizontal modular system sun louvre system comprising 0,6 mm thick 70S panels fixed to fascade of building	m2	194		
26.		<u>CANOPY</u> New steel and glass canopy. Refer to drawing pack.	no.	1		
27.		<u>TILES</u> <u>FLOORING: SUPPLY AND INSTALL</u> Carpet tiles as per the client's specification	m2	283		
28.		Extreme sport vinyl sheeting	m2	38		
29.		Epoxy resin	m2	533		
30.		Rubber tiles	m2	65		
31.		Porcelain tiles	m2	38		
32.		Floor tiles (Female and male toilet, showers, and change room), Laundry and PARAPL	m2	115		
33.		Timber flooring	m2	80		
34.		<u>Wall Tiles</u> Supply and Install wall tiles in the bathrooms as per the client's specification	m2	260.58		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
35.		<u>SKIRTING</u> 100mm high tile skirting	m	18		
36.		100 mm high skirting (main building)	m	230		
37.		<u>CEILING</u> Supply, deliver and install 6mm thick ceiling boards. (cut to fit), manufactured in accordance with sans 9001:2000 carrying SANS 803:2005 mark, fixed to 38x38mm timber battens at 600mm centres to brickwork using 32x2,5mm serrated ceiling nails at 150mm centres, minimum of 12mm from edge of board. all joints to be covered using h-profile steel jointing strips. all in accordance with the manufacturer's recommendations.	m2	610		
Total Carried Forward to Section Summary						R

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
		<p><u>BILL NO.10: IRONMONGERY</u></p> <p><u>PREAMBLES</u></p> <p>The Model Preambles for Trades (2008 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained</p> <p>The Model Preambles for Trades (2008 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Proprietary items: Where applicable, the manufacturers' names or product catalogue titles are given in sub-headings preceding the items</p> <p>Prices are to be based on the specific products/articles specified. Should tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures, etc clarifying the features of the products/articles offered</p>				

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
		On request, returnable samples are to be provided to the Principal Agent for consideration				
		<u>DOOR HANDLES</u>				
1.		Supply, deliver and install Aluminium door handles	no.	68		
2.		Supply, deliver and install locks in accordance with the design and specifications	No.	34.		
		<u>HINGES, BOLTS, LATCHES ETC.</u>				
3.		Stainless Steel Butt hinges to manufacturer's specs, subject to architect's approval	no.	68		
Total Carried Forward to Section Summary						R

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
		<u>BILL NO.11: STRUCTURAL STEEL</u>				
		<u>All structural steel shall comply and be as per specification</u>				
1.		254x146x41 Stanchion	ton	4		
2.		175x6.0 Stanchions	ton	3.4		
3.		76 x 3.5 Galvanized C.H. S (Circular Hollow Section)	ton	2		
4.		89x4.0 CHS (Circular Hollow Section) Tie member	ton	3		
5.		165x4.0 CHS (Circular Hollow Section)	ton	3		
6.		Eaves beam 89x3 C.H.S. (Circular Hollow Section)	ton	3		
7.		SHS Square Hollow Section stanchion 174x6.0mm	ton	2.6		
8.		Haunch cut from 254x146x31l and welded to stanchion & end plate	ton	1.28		
9.		175x75x20x3.5mm Purlins	no.	10		
10.		60x60x6 Rafter bracing	ton	1.6		
11.		40x40x4 L SAG RODS (Suspended Adjustable Galvanized Rods)	ton	1.48		
12.		254x146x31l rafter	m	68		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
13.		100x100x4mm thick plate welded to eaves beam	ton	2.6		
14.		200x200x6mm thick galvanized plate	ton	1,2		
15.		140x100x6mm plate to be welded to rafter	ton	1.8		
16.		90x100x6mm plate	ton	1.3		
17.		350x350x10mm baseplate	ton	1.2		
18.		450x280x20 thick base plate	ton	2		
19.		6mm thick stiffener	ton	1.2		
20.		60x60x6mm "L" back-to-back	ton	1.5		
21.		160 "IPE" shape steel section secondary beam @600mm c/c	ton	2		
22.		200 "IPE" shape steel section primary beams	ton	1.3		
23.		100 "IPE" shape steel section secondary beams @450mm c/c	ton	1		
24.		140 "IPE" shape steel section secondary beams @450mm c/c	ton	2		
25.		356x171x45 primary beam "I"	ton	2		
26.		Allowance for Mezzanine floor connections (All connection including plates, bolts etc.)	sum	1		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
27.		<u>GALVANISED STEEL STAIRS</u> Hot dip galvanised steel staircase completes including structural steel columns and supports, landings, walkways, and all necessary plates, fixing etc, fixed to concrete bases and building structure	no.	2		
Total Carried Forward to Section Summary						R

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
		<u>BILL NO.12: ROOF</u>				
		<u>PREAMBLES</u>				
1.		0.5mm thick IBR profile roofs sheeting's on 50 x 76mm SA pine battens. Spaced @720mm on isolation on engineered prefab timber trusses spaced @600mm (Guard house)	m2	32		
2.		Locally produced 0,58mm thick 700mm cover concealed fix 700™ profile " Dark Dolphin" finish top coat and backing coat aluminium roof sheeting, fixed to 50 x 76 new timber purlins fixed to 114 x 38mm Grade 5 new sa pine roof trusses with 3.0 deg slope, all in accordance with the manufacturer`s specifications (Main Building)	m2	900		
3.		Roof trusses (from SANS timber)	m2	24		
4.		38 x 114 SA pine tie beam	m	88		
5.		Galvanized mild steel bolts with heads, nuts & washers	no.	56		
6.		38 x 50 pine or brandering pine battens (timber battens)	m	101		
7.		38 x 38 Pine brandering for ceiling	m	67		
8.		Bulldog timber connectors	m	150		
9.		Bend sheeting up	m	150		
10.		Other Accessories	sum	1		
Total Carried Forward						

TRANSNET NATIONAL PORTS AUTHORITY
TENDER NUMBER: TNPA/2024/06/0007/67960/RFP
DESCRIPTION OF THE WORKS: PROVISION OF SERVICES TO UPGRADE THE EXISTING TRANSNET NATIONAL PORTS
AUTHORITY (TNPA) NATIONAL FIRE SERVICE INFRASTRUCTURE AND EQUIPMENT PROJECT (PHASE 2A) IN THE PORT
OF CAPE TOWN FOR A PERIOD OF 1 (ONE) YEAR

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
11.		<u>INSULATION</u> 135mm thick insulation blanket laid over purlins	m2	900		
Total Carried Forward to Section Summary						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
1		<u>BILL NO.13: METALWORK</u> 26mm diameter M24 holding down bolt with head, nut and washer and including maintaining in position and cast into concrete	no.	50		
2		13mm diameter M12 holding down bolt with head, nut and washer and including maintaining in position and cast into concrete	no.	150		
3		18mm diameter M16 holding down bolt with head, nut and washer and including maintaining in position and cast into concrete	no.	53		
Total Carried Forward to Section Summary						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
1		<u>BILL NO.14: PARTIONING DRYWALLS</u> 115mm nominal width drywall, 12,5mm plasterboard (120min fire rating) on 63.5mm stud	m2	324		
Total Carried Forward to Section Summary						R

TRANSNET NATIONAL PORTS AUTHORITY
TENDER NUMBER: TNPA/2024/06/0007/67960/RFP
DESCRIPTION OF THE WORKS: PROVISION OF SERVICES TO UPGRADE THE EXISTING TRANSNET NATIONAL PORTS AUTHORITY (TNPA) NATIONAL FIRE SERVICE INFRASTRUCTURE AND EQUIPMENT PROJECT (PHASE 2A) IN THE PORT OF CAPE TOWN FOR A PERIOD OF 1 (ONE) YEAR

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
1		<u>BILL NO.15: PAINTWORK</u> Prepare surfaces and remove all loose or flaking material, ensure surface is dry & dust free and apply paint on walls. As per specifications.	m2	2084		
Total Carried Forward to Section Summary						R

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
		<u>BILL NO.16: PLASTERING</u>				
1		One coat cement plaster	m2	2084		
2		One coat skim plaster	m2	766		
		<u>END OF SECTION 2</u>				
Total Carried Forward to Section Summary						R

BILL NO.	SECTION 2 SUMMARY	AMOUNT
1	BILL NO.1: ALTERATIONS	
2	BILL NO.2: EARTHWORKS	
3	BILL NO.3: STORMWATER	
4	BILL NO.4: ROADWORKS AND PARKING	
5	BILL NO.5 CONCRETE, FORMWORK AND REINFORCEMENT	
6	BILL NO.6: MASONRY	
7	BILL NO.7: WATERPROOFING	
8	BILL NO.8: SANITARY FITTINGS	
9	BILL NO.9: CARPENTRY AND JOINERY	
10.	BILL NO.10: IRONMONGERY	
11.	BILL NO.11: STRUCTURAL STEEL	
12.	BILL NO.12: ROOF	
13.	BILL NO.13: METALWORK	
14.	BILL NO.14: PARTIONING DRYWALLS	
15.	BILL NO.15: PAINTWORK	
16.	BILL NO.16: PLASTERING	
TOTAL EXCLUDING VAT CARRIED TO FINAL SUMMARY		R

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
		<u>SECTION NO: 3 MECHANICAL</u>				
		<u>BILL NO. 1: LIFT</u>				
		<u>Design, Supply, Install, Commission and Handover passenger lift</u>				
1.		630 kg / 8-person capacity Passenger Lift with single telescopic side entry to be installed in concrete elevator shaft Car Dimensions = 1100 X 1400	sum	1		
2.		"Lateral Propping" of existing wall to enable lift shaft construction.	sum	1		
		<u>Sundry Item</u>				
3.		Allow for professional design approval for the lift by a Mechanical, Structural and Electrical Engineer.	sum	1		
Total Carried Forward to Section Summary						R

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
		<u>BILL NO. 2: HVAC SYSTEM</u>				
		<u>HVAC (HEATING, VENTILATION AND AIRCONDITIONING)</u>				
		<u>Ground floor:</u>				
		<u>FRESH AIR SUPPLY FANS</u>				
1.		Supply, install, test, commission and hand over FAF-01 Explosion proof Axial Fan c/w (2-OFF) 1.5 Dia POD type sound attenuator (Ducted Fan) attenuator - ø716, 2142 air qty ducted fan, 7.5kw, 79kg	no.	1		
2.		Supply, Install, test Commission and hand over 1200x1000 weather louvre c/w 2-off 600x500 filters & vermin mesh @ 2150	no.	3		
3.		Supply, Install, test, Commission, and hand over 2-off 500x500 primary washable panel filter	no.	1		
4.		Supply, Install, test Commission and hand over 2-off 500x500x300 self-support pocket secondary filters	no.	1		
		<u>EXTRACTION FANS</u>				
5.		Supply, Install, test, Commission, and hand over EAF-01 flush Mounted wall extract fan, 184 air qty, 345 x 375mm wall opening, 0.0441kw, as per drawings.	no.	2		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
6.		Supply, Install, test Commission and hand over EAF-02 flush Mounted wall extract fan, 68air qty, 245 x268mm wall opening, 0.034kw, as per drawings.	no.	1		
7.		Supply, Install, test Commission and hand over EAF-03 flush Mounted wall extract fan, 1250air qty 500mm diameter wall opening 350kW. as per drawings	no.	1		
8.		Supply, Install, test Commission and hand over EAF-04 200 diameter axial extract fan c/w (2-OFF) 1.5 Dia POD type sound attenuator (Ducted Fan) as per drawings.	no.	1		
9.		Supply, Install, test Commission and hand over EAF-05 250 diameter axial extract fan c/w (2-OFF) 1.5 Dia POD type sound attenuator (Ducted Fan) as per drawings.	no.	2		
<u>GARAGE JET FANS</u>						
10.		Supply, Install, test Commission and hand over AJF-01 Slim-Line Car Park axial Jet Thrust Fanc/w (2-OFF) 1.5 Dia POD type sound attenuator (Ducted Fan) - 2850speed, 3000 air qty,2.35kW, 70kg, as per drawings.	no.	03		
<u>AIR CONDITIONING INDOOR UNIT (SUPPLY, INSTALL, TEST, COMMISSION, AND HANDOVER)</u>						
11.		ACU-02 Indoor 262 air qty 6.8kW cooling capacity and 7kW heating capacity. Absorbed Power0.53kW	no.	3		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
12.		ACU-03 Indoor 142 air qty 3.6 kW cooling capacity and 7kW heating capacity. Absorbed Power 0.42kW	no.	4		
13.		ACU-05 indoor & Outdoor 142 air qty 4.2kW cooling capacity and 4.2kW heating capacity. absorbed Power 1.115kW	no.	1		
14.		ODU-01 VRF(Outdoor) 61.6kW cooling capacity and 69.3kW heating capacity. Absorbed Power 17.35kW	no.	1		
<u>AIR TERMINALS AND DAMPERS</u>						
<u>Refer Drawing No. M-TBH-106N62101.</u>						
15.		FAG-01 PE Fresh Air Grille (With Plenum Box) grille size 600 x300mm, 20-550ls air qty	no.	18		
16.		FAG-02 PE Fresh Air Grille (With Plenum Box) grille size 300 x150mm, 20-160ls air qty	no.	2		
17.		DG-01 AGS-T Door Grille next size 550 x400mm,	no.	23		
18.		MBD-01 Manual Blade Damper neck size 100mm diameter	no.	4		
19.		MBD-03 Manual Blade Damper neck size 300 x 250mm	no.	1		
20.		Manual Blade Damper neck size 200mm diameter	no.	4		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
21.		MBD005 Manual Blade Damper neck size 200mm diameter	no.	4		
22.		MBD-06 Manual Blade Damper neck size 250mm diameter	no.	6		
23.		MBD-07 Manual Blade Damper neck size 250 x 200mm	no.	1		
24.		MBD-08 Manual Blade Damper neck size 500 x 400mm	no.	1		
25.		MBD-09 Manual Blade Damper neck size 200 x 150mm	no.	1		
26.		EAG-01 PE Extract Air Grille (With Plenum Box) neck size 500 x 300mm	no.	2		
27.		EAD-01 Exhaust Round Diffuser 200mm diameter	no.	9		
		<u>CO DETECTION (SUPPLY, INSTALL, COMMISSION AND HAND OVER)</u>				
28.		An approved standalone gas control panel, 24V, 100mA, mount height 1.2m AFFL	no.	1		
29.		An approved CO GAS SENSOR, 24V, 70mA, Range 695m2, mount height 850mm AFFL	no.	2		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
		<u>DUCT WORK</u>				
		<u>DUCTWORK TO BE MANUFACTURED FROM GALVANISED SHEET METAL AND INSTALLED IN ACCORDANCE WITH SABS 1238 AND SABS 0173. DUCT SIZES INDICATE CLEAR INSIDE DIMENSIONS. ROUND DUCTING TO BE OF THE SPIRAL WOUND TYPE UNLESS INDICATED OTHERWISE. (SUPPLY, INSTALL, TEST, COMMISSION AND HAND OVER)</u>				
		<u>Galvanised sheet metal duct:</u>				
30.		200 x 100mm Duct	m	1.5		
31.		200 x 150mm Duct	m	15		
32.		200x200mm Duct	m	5		
33.		250 x 200mm Duct	m	10.4		
34.		250 x 250mm Duct	m	8.5		
35.		300 x 200mm Duct	m	1.6		
36.		300 x 250mm Duct	m	9.3		
37.		300 x 300mm Duct	m	6.5		
38.		400 x 300mm Duct	m	3		
39.		400 x 400mm Duct	m	3		
40.		500 x 400mm Duct	m	3.59		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
41.		600x300mm Duct	m	2.7		
42.		Indoor 262 air qty 6.8 kW cooling capacity and 7kW heating capacity, 0.53kW	no.	2		
43.		600 x 400mm Duct	m	3.89		
44.		600 x 500mm Duct	m	4		
45.		800 x 500mm Duct	m	3.2		
46.		800 x 600mm Duct	m	6.6		
<u>SUPPLY AIR DUCTING, INCLUDING FLEXIBLES, TO BE EXTERNALLY INSULATED WITH 25MM FRK, UNLESS STATED OTHERWISE. PLENUM BOXES TO BE INTERNALLY INSULATED. EXPOSED SUPPLY AIR DUCTING WITHIN THE CONDITIONED SPACE NEED NOT BE INSULATED UNLESS SPECIFICALLY REQUESTED.</u> <u>SPIRAL AIR DUCT:</u>						
47.		200mm diameter duct	m	10		
48.		250mm diameter duct	m	2.5		
49.		300mm diameter duct	m	8.2		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
		<u>FIRST FLOOR</u>				
		<u>FRESH AIR FAN</u>				
50.		FAF-02 explosion proof axial supply air fan, 1.5 diameter Type Sound Attenuator - Ø636, 2581 air qty ducted fan, 2.2kW, 59kg, as per drawing	no.	3		
51.		Supply, Install, Commission and hand over 1200x1000 weather louvre c/w 2-off 600x500 filters & vermin mesh @ 2150	no	1		
52.		Supply, Install, Commission and hand over 2-off 500x500 primary washable panel filter	no	1		
53.		Supply, Install, Commission and hand over 2-off 500x500x300 self-support pocket secondary filters.	no	1		
		<u>EXTRACT AIR FANS</u>				
		<u>SUPPLY, INSTALL, COMMISSION AND HAND OVER EAF-05 250 DIAMETER AXIAL EXTRACT FAN C/W (2-OFF) 1.5 DIA POD TYPE SOUND ATTENUATOR (DUCTED FAN) AS PER DRAWINGS.</u>				
		<u>AIR CONDITIONING INDOOR UNIT</u>				
54.		ACU-01 Indoor 232 air qty 4.5kW cooling capacity and 5kW heating capacity, 0.47kW	no.	2		
55.		ACU-02 Indoor 262 air qty 6.8 kW cooling capacity and 7kW heating capacity, 0.53kW	no.	2		
56.		ACU-03 Indoor 142 air qty 3.6kW cooling capacity and 4kW heating capacity, 0.42kW	no.	6		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
57.		ACU-01 Indoor 383 air qty 9.3kW cooling capacity and 9.8kW heating capacity, 0.76kW	no.	1		
58.		500 x 300mm Duct	m	7.79		
		<u>AIR TERMINALS AND DAMPERS</u> <u>Refer to drawing No. M-TBH-106N62102</u>				
59.		FAG-01 Fresh Air Grille (With Plenum Box) Grille size 600x300mm, 20-550ls air qty	no.	14		
60.		DG-01 Door Grille neck size 550 x400mm,	no.	13		
61.		MDB-01 Manual Blade Damper neck size 100mm diameter	no.	6		
62.		MBD-02 Manual Blade Damper neck size 125mm diameter	no.	1		
63.		MBD-05 Manual Blade Damper neck size 200mm diameter	no.	2		
64.		MBD-07 Manual Blade Damper neck size 300 x 200mm	no.	1		
65.		MBD-10 Manual Blade Damper neck size 500 x 300mm	no.	1		
66.		EAD-01 Exhaust Round Diffuser 200mm diameter	no.	3		
67.		2.4M ridge mounted multipurpose fire ventilators, marine resistant material, colour to architect specification, with fusible link to activate at 93°C, bird guards, 750 x2280mm	no.	8		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
68.		<p>Slope mounted natural smoke & heat exhaust ventilators or similar, marine resistant material with fusible links to activate at 93°C, with roof upstand base and bird guards. 1930 x 2040mm</p> <p><u>DUCTWORK</u></p> <p><u>DUCTWORK TO BE MANUFACTURED FROM GALVANISED SHEET METAL AND INSTALLED IN ACCORDANCE WITH SABS 1238 AND SABS 0173. DUCT SIZES INDICATE CLEAR INSIDE DIMENSIONS. ROUND DUCTING TO BE OF THE SPIRAL WOUND TYPE UNLESS INDICATED OTHERWISE.</u></p> <p><u>GALVANISED SHEET METAL DUCT</u></p>	no.	4		
69.		200 x 100mm Duct	m	10		
70.		200x150mm Duct	m	10.5		
71.		200x200mm Duct	m	2.6		
72.		250 x 150 mm Duct	m	4.5		
73.		250 x 200mm Duct	m	12		
74.		250 x 200mm Duct	m	12		
75.		300 x 250mm Duct	m	11.96		
76.		400 x 250mm Duct	m	2.85		
77.		400 x 300mm Duct	m	5.7		
78.		500 x 300mm Duct	m	8.5		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
79.		800 x 600mm Duct <u>SUPPLY AIR DUCTING, INCLUDING FLEXIBLES, TO BE EXTERNALLY INSULATED WITH 25mm FRK, UNLESS STATED OTHERWISE. PLENUM BOXES TO BE INTERNALLY INSULATED. EXPOSED SUPPLY AIR DUCTING WITHIN THE CONDITIONED SPACE NEED NOT BE INSULATED UNLESS SPECIFICALLY REQUESTED.</u> <u>Spiral air duct:</u>	m	13.58		
80.		200mm diameter duct	m	6		
81.		<u>TESTING</u> Vertical hot water storage tank with dual coil and backup heating element c/w all pipe work, valves, gauges, drip tray, vacuum breakers, shut-off valve on cold water side, multi valve (pressure-temperature control valve c/w piping to drain), thermostat, self-sacrificing anode, power wiring from isolator. Installed according to the specifications of the manufacturer.	no.	1		
82.		Hot water Circulating pump. Pump setups complete with power wiring from isolator, all necessary accessories and pipe work as per drawing specification	no.	1		
83.		Insulation for all hot water pipework, plant, fittings, and valves as per specifications.	sum	1		
84.		Pipe hangers and supports	sum	1		
Total Carried Forward						

TRANSNET NATIONAL PORTS AUTHORITY
TENDER NUMBER: TNPA/2024/06/0007/67960/RFP
DESCRIPTION OF THE WORKS: PROVISION OF SERVICES TO UPGRADE THE EXISTING TRANSNET NATIONAL PORTS
AUTHORITY (TNPA) NATIONAL FIRE SERVICE INFRASTRUCTURE AND EQUIPMENT PROJECT (PHASE 2A) IN THE PORT
OF CAPE TOWN FOR A PERIOD OF 1 (ONE) YEAR

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
85.		Testing and Commissioning	sum	1		
Total Carried to Section Summary						R

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount		
Total Brought Forward								
1.		<u>BILL NO.3: FIRE SYSTEM</u>						
		<u>MECHANICAL WORK</u>						
		<u>SUPPLEMENTARY PREAMBLES</u>						
		The Contractor is Referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in this Bill						
		<u>FIRE SYMBOLS, SUPPRESSION AND DETECTION</u>						
		Supply, deliver, and install, test, commission, and handover the following fire protection system, complete with fire extinguishers, hose reel, and all related signage, brackets, supports and all necessary accessories, as per the manufacturer's recommendations.						
		<u>GROUND FLOOR</u>						
		<u>EMERGENCY EVACUATION:</u>						
		Fire symbols					no.	64
		<u>FIRE DETECTION</u>						
		<u>Supply, install, test, commissioning, and handover</u>						
		<u>Smoke detector:</u>						
Total Brought Forward								

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
2.		Apollo or similar approved, XP 95 optical smoke detector AP-XP-O, 23D rating, 17-28V DC, 4mA (under alarm conditions)-20 to 60 degrees Celsius, white polycarbonate V-0 rated to UL94, led emitting red light, Sa	no.	29		
3.		<u>Fire control panel:</u> Advanced or similar approved 1-4 loop fire control panel, MX-5404, IP30, 200-240V, 1,4A continuous maximum 5A loop current, batteries as per SANS requirements, SANS 10400T, EN54-2, EN54-13	no.	1		
4.		<u>Manual call point:</u> Intelligent Manual Call Point *MCP), IP44,17-35V DC, AmA (under alarm conditions) continuous, -40 to 70 degrees Celsius, 180g flame retardant polycarbonate, with MCP hinged protective flap	no.	4		
5.		<u>FIRE SUPPRESSION</u> <u>Supply, install, test, commissioning, and Handover</u> <u>Fire hydrant:</u> Tamper proof fire hydrant valve right angle 80mm brass tamper proof key, 80mm male 3 BSP, 65mm female instantaneous coupling,4,72kg brass with fire cabinet to house 30m hose.	no.	3		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
6.		<u>Fire extinguisher:</u> An approved 5kg carbon dioxide 770mm high with 138mm diameter, 14.4kg(full) range 1-4m, with hose, horn and wall bracket, fire cabinet to house extinguishes.	no.	3		
7.		An approved 9kg dry chemical powder 545mm high with 179mm diameter, 13.2kg(full) range 1-4m, with hose, horn and wall bracket, fire cabinet to house extinguishes.	no.	5		
8.		An approved 4.5kg dry chemical powder 435mm high with 179mm diameter, 7.8kg(full) range 1-4m, with hose, horn and wall bracket, fire cabinet to house extinguishes.	no.	5		
9.		<u>Fire hose reel:</u> An approved hose reel (fixed type) 1500mm (wall bracket) 575mm (disc), 19.4kg (with hose), Hose ID 20mm x30m, pressure 300kPa(working), -30 degrees Celsius with fixed wall bracket dust cover.	no.	2		
10.		<u>NB Galvanised mild steel pipe:</u> <u>Supply, deliver, install, test, commission, and handover all Fire appliances and piping complete with all auxiliary fittings (inclusive of all dopers and risers)</u>				
11.		80mm diameter pipe	m	19.49		
		100mm diameter pipe	m	54.56		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
12.		150mm diameter pipe	m	9.12		
		<u>Reducer:</u>				
13.		80mm -100mm diameter galvanised steel reducer	no.	2		
14.		100mm - 150mm diameter galvanised steel reducer	no.	2		
		<u>SITE FIRE SUPPRESSION</u>				
		<u>Supply, install, test and commissioning</u>				
		<u>Fire hydrant:</u>				
15.		An approved tamper proof fire hydrant valve right angle 80mm brass tamper proof key, 80mm male 3 BSP, 65mm female instantaneous coupling, 4.22kg brass located at drill area.	no.	1		
16.		110mm diameter standpipe to hydrant	m	12		
17.		An approved Squat fire hydrant underground straight 80mm brass tamper proof key, 80mm male 2.5 London rounded head, 65mm female instantaneous coupling, 13kg stainless steel, located at drill area.	no.	1		
18.		110mm diameter standpipe to hydrant	m	18		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
19.		<u>Fire extinguisher:</u> An approved 9kg dry chemical powder 545mm high with 179mm diameter, 13.2kg(full) range 1-4m, with hose, horn and wall bracket, fire cabinet to house extinguishes, located at drill area.	no.	1		
20.		<u>Booster connection:</u> An approved right angle double booster right angle 80mm brass tamper proof key, 80mm male 3 BSP, 65mm female instantaneous coupling, 2kg brass located in ground floor.	no.	1		
21.		<u>Supply, deliver and install all Fire appliances and piping complete with all auxiliary fittings (inclusive of all dopers and risers)</u> 100mm diameter buried pipe on outside of building to booster connection	m	6.78		
22.		<u>FIRST FLOOR</u> <u>FIRE DETECTION</u> Supply, install, test and commissioning				
23.		<u>Sounder beacon:</u> Open area sounder beacon, IP65, 17-60V DC, 5mA continuous -25 to 70 degrees Celsius, Flame-retardant polycarbonate, 100dB(A) with sounder beacon base.	no.	1		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
24.		<u>Sounder:</u> Externally powered sounder nexus 120 sounder (KL-NX120-SR), IP66, 10-60V DC, continuous -25 to 70 degrees Celsius, 1.8kg 120 Db(A) with sounder base and power supply.	no.	1		
25.		<u>Smoke detector:</u> Optical smoke detector, 23D rating, 17-28V DC, 4mA (under alarm conditions)-20 to 60 degrees Celsius, white polycarbonate V-0 rated to UL94, led emitting red light	no.	27		
26.		<u>Heat detection:</u> Optical multi-sensor optical/heat detector, IP44, 17-28V D, 4mA (under alarm conditions)-20 to 60 degrees Celsius, white polycarbonate V-0 rated to UL94, led emitting red light	no.	3		
27.		<u>Manual call point:</u> Intelligent MCP, IP44, 17-35V DC, 4mA (under alarm conditions) continuous, -40 to 70 degrees Celsius, 180g flame retardant polycarbonate, with MCP hinged protective flap	no.	3		
28.		<u>FIRE SUPPRESSION</u> <u>SANS 10400T,1910,1086, EN 694</u> Supply, install, test commissioning, and handover				
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
29.		<u>Fire hydrant:</u> Tamper proof fire hydrant valve right angle 80mm brass tamper proof key, 80mm male 3 BSP, 65mm female instantaneous coupling, 4,72kg brass with fire cabinet to house 30m hose.	no.	2		
30.		<u>Fire extinguisher:</u> 5kg carbon dioxide 770mm high with 138mm diameter, 14.4kg(full) range 1-4m, with hose, horn and wall bracket, fire cabinet to house extinguishes.	no.	1		
31.		9kg dry chemical powder 545mm high with 179mm diameter, 13.2kg(full) range 1-4m, with hose, horn and wall bracket, fire cabinet to house extinguishes.	no.	3		
32.		4.5kg dry chemical powder 435mm high with 179mm diameter, 7.8kg(full) range 1-4m, with hose, horn and wall bracket, fire cabinet to house extinguishes.	no.	3		
33.		6L Wet chemical 430mm high with 164mm diameter, 7.8kg(full), with fire cabinet to house extinguishes.	no.	1		
34.		Other Accessories	sum	1		
35.		<u>Fire hose reel:</u> An approved hose reel (fixed type) 1500mm (wall bracket) 575mm (disc), 19.4kg (with hose), Hose ID 20mm x30m, pressure 300kPa(working), -30 to 60 degrees Celsius with fixed wall bracket dust cover.	no.	2		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
36.		<u>NB Galvanised mild steel pipe:</u> <u>Supply, deliver, install, test, commission, and handover all Fire appliances and piping complete with all auxiliary fittings (inclusive of all dopers and risers)</u> 80mm diameter pipe	m	3.76		
37.		<u>Connection to water main:</u> 110mm diameter Isolation valve to be encased in valve chamber underground in connection to water main	no.	1		
Total Carried Forward to Section Summary						R

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
		<u>BILL NO. 4: WATER RETICULATION</u>				
		For the supply, delivery, installation testing and Commissioning of the Water reticulation system including connection pipework, supports, hangers, pipe fittings, valves, pumps, and control systems as per the manufacturer's specification and recommendations. Provision shall also be made for all plinths/foundations required under the relevant plant.				
		<u>WATER RETICULATION EQUIPMENT</u>				
		<u>PUMBLING</u>				
1.	SANS 460	Testing and Commissioning	sum	1		
		<u>PIPE LENGTHS</u>				
		<u>Copper pipes</u>				
2.		Supply and install 65mm diameter HW	m	133.04		
3.		Supply and install 32mm diameter HW	m	68.34		
4.		Supply and install 32mm diameter HWR	m	68.34		
5.		Supply and install 20mm diameter HW	m	26		
6.		Supply and install 15mm diameter HW.	m	15		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
		<u>COLD WATER SYSTEM</u>				
7.		15mm diameter	m	22		
8.		20mm diameter	m	32		
9.		22mm diameter	m	20		
10.		25mm diameter	m	20		
11.		32mm diameter	m	15		
12.		40mm diameter	m	10		
13.		65mm diameter	m	132		
		<u>Supply and install Valves</u> <u>Refer to Water Reticulation</u> <u>Drawings</u> <u>Cold water valve</u>				
14.		Supply and install	no.	32		
		<u>Hot water valve</u>				
15.		Supply and install	no.	22		
		<u>Supply and install Reducers</u>				
16.		32 mm diameter	no.	2		
17.		20mm-20mm HW	no.	2		
18.		35-25mm HW	no.	2		
		<u>Dropper</u>				
19.		Supply and install 15 mm diameter dropper.	no.	8		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
20.		Supply and install 30 mm diameter dropper.	no.	4		
21.		<u>Risers</u> Supply and install.	no.	4		
22.		<u>WATER RETICULATION</u> Water Reticulation Equipment –11 kW heating capacity Heat Pump unit - water heat pump together with all accessories and fittings as per the specifications and manufacturer's requirements. <u>END OF SECTION 3</u>	no.	2		
Total Carried Forward to Section Summary						R

BILL NO.	SECTION 3 SUMMARY	AMOUNT
1	BILL NO.1: LIFT	
2	BILL NO.2: HVAC SYSTEM	
3.	BILL NO.3: FIRE SYSTEM	
4.	BILL NO. 4: WATER RETICULATION	
TOTAL EXCLUDING VAT CARRIED TO FINAL SUMMARY		R

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
		<u>SECTION NO.4: CONTROL AND INSTRUMENTAL</u>				
		<u>BILL NO.1: CONTROL AND INSTRUMENTATION</u>				
		<u>Supply and install</u>				
1.		Supply, delivery, and Installation of an approved Biometric/Card Access Control Reader.	no.	16		
2.		Supply and Installation of an approved to Door station IP video intercom	no.	1		
3.		Supply and installation of an approved IP Video Intercom Receiver	no.	1		
4.		ICT Panel	no.	4		
5.		Push Bar and Strobe light Siren	no.	1		
6.		Supply and Installation of equal or similar approved to ZKTeco TS2011Pro Turnstile or similar approved - Waiste High - Drop Arm	no.	1		
7.		Supply, delivery, and Installation of Electromagnetic Door locks (maglock) equal or similar approved to Rivolt AC-MAG500 (500kg) 12 Vdc & Monitored LED including ZL bracket and armature plate	no.	9		
8.		Supply and Installation of equal or similar approved to Chamberlain CLDM1 Wireless Garage Door Monitor	no.	2		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
9.		Supply and Installation of Green resettable Break glass unit	no.	7		
10.		Supply, delivery and installation Fixed outdoor bullet IP Camera incl. mounting accessories and PSU (5MP HDR, IR PoE dual power) complete RJ45 connector	no.	8		
11.		Supply, delivery and installation Fixed indoor dome IP Camera incl. mounting accessories and PSU (5MP HDR, IR, PoE dual power) complete RJ45 connector	no.	17		
12.		Supply, delivery and installation PTZ Camera incl. mounting accessories and PSU (4MP, 30x, 120dB HDR, IR, PoE dual power) complete RJ45 connector	no.	4		
13.		Supply, delivery, and installation of equal or similar approved to XMP-K32 complete with housing, power cabling and PSU with back-up battery (12V/7Ah) and housing and accessories, complete RJ45 connector.	no.	5		
14.		Supply and Installation of Door Closer- Heavy Duty.	no.	11		
15.		Supply and install Qognify or similar approved VMS camera licenses.	no.	29		
16.		Supply, delivery and installation of equal or similar approved to Aluminium Screened PVC Grey Cable with tinned copper conductor (0.55mm2 Multi Core 8 pair).	m	1000		
17.		Supply, delivery, installation, and termination of CAT6 FTP ethernet cable (complete with terminations, labelling and associated accessories)	m	1500		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
18.		Supply, deliver and install and terminate of 2.5mm ² , 3 core PVC, ECC copper cable	m	500		
19.		Supply, delivery and installation of equal or similar approved to Aluminium Screened PVC Grey Cable with tinned copper conductor (Multi Core 8 pair)	m	150		
20.		Supply, delivery, installation, and termination of CAT6 FTP ethernet cable (complete with terminations, labelling and associated accessories)	m	2000		
21.		Autec Babylon (XMP-NT) or similar approved System Package Expansion Tags Licenses	sum	1		
22.		Access control systems and equipment training including Babylon User Training (new users) or similar approved.	sum	1		
23		Design, supply, delivery, installation, and commissioning of Traffic light signal system for the entrance facility to the Fire Building site to control traffic coming in and out of the site during normal operation with an override in case of emergencies, complete with 4 traffic light signals, cabling, control system and housing, traffic study	sum	1		
24.		Commissioning, testing and configuration of access control systems	sum	1		
25.		Compilation and provision of test certificates, handover files, etc.	sum	1		
26.		Ethernet CAT6 Inline surge protection	no.	8		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
27.		Camera configuration on VMS and NVR	sum	1		
28.		Configuration, commissioning and provision of test certificates, drawings, and any additional documents, et.	sum	1		
29.		Cable Management- HDG 150mm wide wire mesh complete with bends, t-joints, mounting accessories	sum	1		
30.		Design, supply, deliver, installation, integration, and commissioning of public address system includes but is not limited to speakers, microphones, controllers/amplifiers, housing, and cabling	sum	1		
31.		Configuration, testing and commissioning of PA system	sum	1		
32.		Compilation and provision of test certificates, handover files, etc.	sum	1		
33.		Supply and Installation of Data Outlet- CAT6 female RJ45 socket outlet flush mounted on 4x2 box	no.	1		
34.		Supply and Installation of Data LAN- CAT6 female RJ45 data socket outlets flush mounted on the power skirting	no.	40		
35.		Supply and Installation of Floor-box cradle power and data outlet, inclusive of all electrical power socket outlets and CAT6 RJ45 female data socket outlets (2)	no.	2		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
36.		Supply and Installation of Table-top power logic pop-up plug. The pop-up plug shall contain all electrical power socket outlets and CAT6 RJ45 female data socket outlets	no.	2		
37.		Supply, delivery and installation of 48 Port PoE 100Mbps Base T and 4x1/10Gbps SFP port Uplink IP base network switch or similar approved.	no.	3		
38.		Supply, delivery and installation of Single Mode 1.25G LC SFP 1310nm, Full Duplex (minimum 20km range) or similar approved.	no.	8		
39.		Supply, delivery, and Installation of equal or similar approved to WIFI Access Point (Cisco 9100 series complete with antennae, PoE)	no.	5		
40.		Supply, delivery, and installation of 43U 800mm Cabinet: (with cooling fans, breakers, blank plates, brush-panels, mounting accessories, cable management, PDU)	no.	1		
41.		Supply, deliver, installation of Optical Fibre 24 core CST G652D single mode - complete with associated accessories for installation, cable management and termination kits	m	500		
42.		Supply, deliver, installation of 19" Brush Panels	each	4		
43.		Supply, deliver, and installation of 24 port LC Fibre 2U Patch Panel (complete with fibre pigtails and LC connectors)	no.	2		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
44.		Supply, deliver, and installation of 24 CAT6 Patch panel (complete with RJ45-connectors and surge protection)	no.	5		
45.		Supply, delivery and installation of CAT6 patch leads (RJ45 Male to Male 0.5m, UTP)	no.	60		
46.		Supply, delivery and installation of LC-APC to LC-APC duplex patch leads Single Mode 1m	no.	10		
47.		ICT Network Configuration for Switches and Aps	sum	1		
48.		Supply, deliver, and installation of CAT 6 FTP ethernet cable for LAN point outlets and Wi-Fi access points complete with RJ45 terminations	m	1800		
49.		Splicing of the 24 cores of the 24-core fibre cable	each	24		
50.		Supply, delivery, installation, and configuration of Access Point Controller/gateway	each	1		
51.		ICT Network Configuration for Switches and AP's	each	1		
52.		Supply, delivery and installation of Single Mode 1.25G LC SFP 1310nm, Full Duplex (minimum 20km range) or similar approved.	each	6		
<u>END OF SECTION 4</u>						
Total Carried Forward to Section Summary						R

TRANSNET NATIONAL PORTS AUTHORITY
 TENDER NUMBER: TNPA/2024/06/0007/67960/RFP
 DESCRIPTION OF THE WORKS: PROVISION OF SERVICES TO UPGRADE THE EXISTING TRANSNET NATIONAL PORTS
 AUTHORITY (TNPA) NATIONAL FIRE SERVICE INFRASTRUCTURE AND EQUIPMENT PROJECT (PHASE 2A) IN THE PORT
 OF CAPE TOWN FOR A PERIOD OF 1 (ONE) YEAR

BILL NO.	SECTION 4 SUMMARY	AMOUNT
1	BILL NO.1: CONTROL AND INSTRUMENTATION	
TOTAL EXCLUDING VAT CARRIED TO FINAL SUMMARY		R

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
		<u>SECTION NO. 5: ELECTRICAL WORK</u>				
		<u>BILL NO.1: MEDIUM VOLTAGE ELECTRICAL RETICULATION</u>				
		<u>MINIATURE SUBSTATION Initial work</u>				
1.		Review the existing circuits in the existing mini sub, mark up single line drawing THB. 106.N6-2098 Sheet 1, submit to the employer's engineer before sending it to the mini sub manufacturer	sum	1		
		<u>MINIATURE SUBSTATION</u>				
2.		Supply, Delivery, Offloading and Installation of 630kVA 11750/420V low maintenance type RMU with internal arc outdoor type B Minisub, complete with switchgear as per single line drawing THB. 106.N6-2098 Sheet 1	sum	1		
3.		Design, Supply, and construct a concrete plinth for the 630kVA 11750/420V low maintenance type RMU with internal arc outdoor type B Minisub.	sum	1		
4.		Grading of the existing protection relays in integration of this connection.	sum	1		
5.		Test of the integrity of the existing Earth Mat. This works shall be conducted in accordance with TPD-004 Earthing Spec and SANS 10313.	sum	1		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
6.		Design, Supply, and Installation of Earth Mat for Proposed Mini Substation. This works shall be conducted in accordance with TPD-004 Earthing Spec and SANS 10313.	sum	1		
		<u>MEDIUM VOLTAGE CABLE AND TERMINATION</u>				
7.		240 mm², 3CORE PILC Copper SWA Cable	m	20		
8.		240 mm², 3CORE PILC Copper SWA Cable joint	no.	2		
9.		240 mm², 3CORE PILC Copper SWA termination kit	no.	2		
		<u>CABLE SLEEVE</u>				
10.		110mm diameter flexible cable sleeve (underground cable installation sleeve)	m	100		
		<u>EXCAVATION AND BACKFILLING</u>				
11.		Excavation for cable installation (Excavating and backfilling)	m3	250		
12.		Back filling using River sand or 3mm screened soil	m3	131.55		
13.		Back filling using 6mm screened soil	m3	131.55		
14.		Installation of Cable Danger Tape	m	310		
15.		Back filling using excavated soil from site	m3	100		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
16.		<u>Metering</u> Supply, Delivery, offloading and installation of an electrical smart meter for metering the Fire Building	no.	1		
17.		<u>TESTING AND COMMISSIONING</u> Testing and Commissioning of complete installation.	sum	1		
Total Carried Forward to Section Summary						R

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
		<u>BILL NO. 2: LOW VOLTAGE ELECTRICAL RETICULATION</u>				
		<u>LOW VOLTAGE CABLE AND TERMINATION</u>				
1.		10mm ² 4core PVC insulated PVC bedded SWA PVC sheathed 600/1000V ECC cable.	m	500		
2.		25mm ² 4core PVC insulated PVC bedded SWA PVC sheathed 600/1000V ECC cable.	m	100		
3.		35mm ² 4core PVC insulated PVC bedded SWA PVC sheathed 600/1000V ECC cable.	m	200		
4.		50mm ² 4core PVC insulated PVC bedded SWA PVC sheathed 600/1000V ECC cable.	m	200		
5.		120mm ² 4core PVC insulated PVC bedded SWA PVC sheathed 600/1000V ECC cable.	m	500		
6.		240mm ² 3 core PVC insulated PVC bedded SWA PVC sheathed 600/1000V ECC cable.	m	500		
7.		10mm ² 4core PVC insulated PVC bedded SWA PVC sheathed 600/1000V ECC cable termination kit.	no.	4		
8.		25mm ² 4core PVC insulated PVC bedded SWA PVC sheathed 600/1000V ECC cable termination kit.	no.	4		
9.		35mm ² 4core PVC insulated PVC bedded SWA PVC sheathed 600/1000V ECC cable termination kit.	no.	4		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
10.		50mm ² 4core PVC insulated PVC bedded SWA PVC sheathed 600/1000V ECC cable termination kit.	no.	4		
11.		120mm ² 4core PVC insulated PVC bedded SWA PVC sheathed 600/1000V ECC cable termination kit.	no.	4		
12.		240mm ² 1core PVC insulated PVC bedded SWA PVC sheathed 600/1000V ECC cable termination kit.	no.	4		
<u>CABLE SLEEVE</u>						
13.		160mm diameter flexible cable sleeve (underground cable installation sleeve)	m	100		
14.		110mm diameter flexible cable sleeve (underground cable installation sleeve)	m	100		
<u>EXCAVATION AND BACKFILLING</u>						
15.		Excavation for cable installation (Excavating and backfilling)	m3	500		
16.		Back filling using River sand or 3mm screened soil	m3	125		
17.		Back filling using 6mm screened soil	m3	200		
18.		Installation of Cable Danger Tape	m	625		
19.		Back filling using excavated soil from site	m3	200		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
20.		<u>TESTING AND COMMISSIONING</u> Testing and Commissioning of complete installation in accordance with SANS 10142-1 including the issue of COC certificates.	sum	1		
Total Carried Forward to Section Summary						R

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
1.		<p><u>BILL NO. 3: ELECTRICAL (GROUND FLOOR)</u></p> <p><u>DISTRIBUTION BOARD</u></p> <p>Design, Supply and installation of Distribution Board A, comprising of all the switch gear, earth leakage surge protection, labelling and wiring as per drawing No: TBH. 106.N6-2098 Sheet 7 and TPD - 002- DBSPEC</p>	each	1		
2.		<p>Design, Supply, and installation of Distribution Board C comprising of all the switch gear, earth leakage, surge protection, labelling and wiring as per drawing No: TBH. 106.N6-2098 Sheet 7 and TPD - 002- DBSPEC</p>	each	1		
3.		<p>Design, Supply, and installation of Lift Distribution Board, comprising of all the switch gear, earth leakage with overload protection, circuit breakers, labelling and wiring as per TPD - 002- DBSPEC</p>	each	1		
4.		<p><u>UPS</u></p> <p>Supply and Installation of a new equal or similar approved to Eaton/Schneider, modular, online double conversion, 30kVA, 400V UPS.</p>	each	1		
5.		<p><u>INTERIOR LIGHTING</u></p> <p>Supply and Installation of new equal or similar approved to Beka Dari 1200mm X 600mm, 70W recessed mounted</p>	each	32		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
6.		Supply and Installation of new equal or similar approved to Beka Dari 1200mm X 600mm, 70W recessed mounted, EMG/15 MIN	each	16		
7.		Supply and Installation of new equal or similar approved to Beka VLN LED 46W surfaced mounted	each	20		
8.		Supply and Installation of new equal or similar approved to Beka VLN LED 46W surfaced mounted, EMG/15 MIN	each	18		
9.		Supply and Installation of new equal or similar approved to Beka VLN LED 26W surfaced mounted	each	10		
10.		Supply and Installation of new equal or similar approved to Beka VLN LED 26W surfaced mounted, EMG/15 MIN	each	9		
11.		Supply and Installation of new equal or similar approved to Beka series 30 bulkhead LED 10W, surface mounted the wall, EMG/15 MIN	each	8		
12.		Supply and Installation of new equal or similar approved to Beka rondo LED, downlighter 10W recessed mounted.	each	40		
13.		Supply and Installation of new equal or similar approved to Beka rondo LED, downlighter 10W recessed mounted, EMG/15 MIN	each	20		
14.		Supply and Installation of new equal or similar approved to Phillips core line SPOT LED, downlighter 11W recessed mounted	each	50		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
15.		Supply and Installation of new equal or similar approved to Phillips core line SPOT LED, downlighter 11W recessed mounted, EMG/15 MIN	each	25		
16.		Supply and Installation of equal or similar approved to Legrand Arteor 16A two way one-lever light switch complete with recess mount box and cover plate	each	6		
17.		Supply and Installation of equal or similar approved to Legrand 16A three-way three-lever light switch complete with recess mount box and cover plate	each	5		
18.		Supply and Installation of new Legrand dimming switch or similar approved.	each	5		
19.		Supply and Installation of equal or similar approved to Schneider occupancy sensor 360°, 7m range complete with all the accessories	each	40		
		<u>POWER SUPPLY POINTS</u>				
20.		Supply and Installation of equal or similar approved to Legrand Arteor 16A 230V Dedicated Single switch socket outlet (Red) mounted in power skirting	each	30		
21.		Supply and Installation of equal or similar approved to Legrand Arteor 16A 230V single switched socket.	each	20		
		<u>Outlets (White) mounted in power skirting</u>				
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
22.		Supply and Installation of equal or similar approved to Legrand Arteor 16A 230V single flush switch socket outlet (White), complete with recessed mount box and cover plate. (Installed 300mm above floor level)	each	10		
23.		Supply and Installation of equal or similar approved to Legrand Arteor 16A 230V double flush switch socket outlet (White), complete with recessed mount box and cover plate. (Installed 300mm above floor level)	each	25		
24.		Supply and Installation of equal or similar approved to Legrand Arteor 16A 230V double flush switch socket outlet (White), complete with recessed mount box and cover plate. (Installed 1350mm above floor level)	each	5		
25.		Supply and Installation of equal or similar approved to Legrand Arteor 16A 230V single phase socket outlet with euro and USB outlet (Installed on power skirting)	each	20		
26.		Supply and Installation of equal or similar approved to Legrand Arteor 5A 230V single flush switch socket outlet (White), complete with recessed mount box and cover plate. (Installed in the ceiling)	each	10		
27.		Supply and Installation of equal or similar approved to Legrand Arteor 5A 230V double flush switch socket outlet (White), complete with recessed mount box and cover plate. (Installed in the ceiling)	each	10		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
28.		Supply and Installation of equal or similar approved to Legrand 16A 230V single phase cord grip isolator (Installed 1800mm above floor level)	each	10		
29.		Supply and Installation of equal or similar approved to Legrand 10A 230V single phase cord grip isolator (Installed 1800mm above floor level)	each	12		
30.		Supply and Installation of equal or similar approved to Legrand 16A 230V single phase isolator (Installed 1800mm above floor level)	each	10		
31		Supply and Installation of equal or similar approved to Legrand 25A 230V single phase isolator (position to be determined on site)	each	5		
32.		Supply and Installation of equal or similar approved to Legrand 10A single phase weatherproof isolator (Mounting position to be determined on site)	each	5		
33.		Supply and Installation of equal or similar approved to Legrand 10A 230V single phase cord grip isolator (To be installed in the ceiling)	each	5		
34.		Supply and Installation of equal or similar approved to Legrand 16A 230V single phase isolator (Mounting to be determined on site)	each	5		
35.		Supply and Installation of equal or similar approved to Legrand 16A 230V single phase weatherproof isolator (Mounting to be determined on site)	each	5		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
36.		Supply and Installation of equal or similar approved to Legrand 10A 400V three phase isolator (Mounting Position to be determined on site)	each	5		
37.		Supply and Installation of equal or similar approved to Legrand 30A 400V three phase weatherproof isolator (Mounting Position to be determined on site)	each	5		
38.		Supply and Installation of equal or similar approved to Legrand 40A 400V three phase isolator for the lift (Mounting Position to be determined on site)	each	2		
39.		Supply and Installation of equal or similar approved to Legrand 32A 400V three phase, 5-Pin, Industrial Plug with an integrated earth leakage (Mounting Position to be determined on site)	each	6		
40.		Supply and Installation of equal or similar approved to Legrand 16A 230V single phase socket outlets including extension leads for all the lights,	each	250		
<u>LOW VOLTAGE CABLES</u>						
41.		6mm ² 4core PVC insulated PVC bedded SWA PVC sheathed 600/1000V ECC cable.	m	200		
42.		6mm ² 4core PVC insulated PVC bedded SWA PVC sheathed 600/1000V ECC cable termination kit.	no.	4		
43.		10mm ² 4core PVC insulated PVC bedded SWA PVC sheathed 600/1000V ECC cable.	m	200		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
44.		10mm ² 4core PVC insulated PVC bedded SWA PVC sheathed 600/1000V ECC cable.	no.	4		
		<u>WIRING</u>				
45.		Low Voltage 2.5 mm2 stranded house wiring for internal wiring - red	m	300		
46.		Low Voltage 2.5 mm2 stranded house wiring for internal wiring - white	m	300		
47.		Low Voltage 2.5 mm2 stranded house wiring for internal wiring - blue	m	300		
48.		Low Voltage 2.5 mm2 stranded house wiring for internal wiring - black	m	300		
49.		Low Voltage 2.5 mm2 stranded house wiring for internal wiring - green	m	300		
50.		Low Voltage 4 mm2 stranded house wiring for internal wiring - red	m	300		
51.		Low Voltage 4 mm2 stranded house wiring for internal wiring - white	m	300		
52.		Low Voltage 4 mm2 stranded house wiring for internal wiring - blue	m	300		
53.		Low Voltage 4 mm2 stranded house wiring for internal wiring - black	m	300		
54.		Low Voltage 4 mm2 stranded house wiring for internal wiring - green	m	300		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
		<u>PVC PRODUCTS, SLEEVES AND CONDUIT ACCESSORIES</u>				
55.		20 mm diameter PVC conduit, boxes, couples' adapters and accessories	sum	1		
56.		25 mm Diameter PVC conduit, boxes, couples' adapters and accessories	sum	1		
57.		32 mm Diameter PVC conduit, boxes, couples' adapters and accessories	sum	1		
58.		PVC trunking Wiring Consumable accessories including Lugs, Ferrules, Terminal Blocks, Screws, connections, compression glands etc.	sum	1		
59.		Conduit chasing	sum	1		
60.		Equal or Similar approved Legrand 3x70mm ² PVC Conduit	sum	1		
		<u>Power Skirting</u>				
61.		Supply and install 3-compartment (70 mm ²) power skirting complete with covers and accessories. (To be mounted along the wall).	sum	1		
62.		Supply and Installation of equal or similar approved to Legrand three-tier droppers	no.	10		
		<u>Cable Ladders and Accessories</u>				
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
63.		Supply and installation of powder coated hot dipped galvanised cable ladder including bends, T-Pieces, hot dipped galvanised threaded rod, fasteners, and accessories.	sum			
64.		Supply and installation of powder coated hot dipped galvanised wire mesh cable tray including bends, T-Pieces, hot dipped galvanised threaded rod, fasteners, and accessories.	sum			
65.		Supply and installation of powder coated hot dipped galvanised P9000 trunking including bends, T-Pieces, hot dipped galvanised threaded rod, fasteners, and accessories.	sum			
<u>EARTHING AND LIGHTNING PROTECTION</u>						
66.		Design, Supply and installation of the building earthing and lightning protection including down conductors, conduits for running down conductors, bonding bar, and other accessories.	sum	1		
<u>TESTING AND COMMISSIONING</u>						
67.		Testing and Commissioning of complete installation in accordance with SANS 10142-1 including the issue of COC certificates	sum	1		
Total Carried Forward to Section Summary						R

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
		<u>BILL NO. 4: ELECTRICAL (FIRST FLOOR)</u>				
		<u>DISTRIBUTION BOARD</u>				
1.		Design, Supply and installation of Distribution Board B, comprising of all the switch gear, earth leakage, surge protection, labelling and wiring as per drawing No: TBH. 106.N6-2098 Sheet 8 and TPD - 002- DBSPEC	each	1		
		<u>INTERIOR LIGHTING</u>				
2.		Supply and Installation of new equal or similar approved to Beka Dari 1200mm X 600mm, 70W recessed mounted	each	50		
3.		Supply and Installation of new equal or similar approved to Beka Dari 1200mm X 600mm, 70W recessed mounted, EMG/15 MIN	each	20		
4.		Supply and Installation of new equal or similar approved to Beka VLN LED 26W surfaced mounted	each	5		
5.		Supply and Installation of new equal or similar approved to Beka VLN LED 26W surfaced mounted, EMG/15 MIN	each	5		
6.		Supply and Installation of new equal or similar approved to Beka ECOBAY 224 LED, 146W Suspended on the roof structure	each	16		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
7.		Supply and Installation of new equal or similar approved to Beka ECOBAY 224 LED, 146W Suspended on the roof structure, EMG/15 MIN	each	15		
8.		Supply and Installation of new equal or similar approved to Beka LEDNOVA MINI 26W surfaced mounted	each	20		
9.		Supply and Installation of new equal or similar approved to Beka series 30 bulkhead LED 10W, surface mounted the wall, EMG/15 MIN	each	5		
10.		Supply and Installation of new equal or similar approved to Beka rondo LED, downlighter 10W recessed mounted.	each	30		
11.		Supply and Installation of new equal or similar approved to Beka rondo LED, downlighter 10W recessed mounted, EMG/15 MIN	each	20		
12.		Supply and Installation of new equal or similar approved to Phillips core line SPOT LED, downlighter 11W recessed mounted	each	10		
13.		Supply and Installation of new equal or similar approved to Phillips core line SPOT LED, downlighter 11W recessed mounted, EMG/15 MIN	each	10		
14.		Supply and Installation of equal or similar approved to Legrand 16A one way one-lever light switch complete with recess mount box and cover plate	each	6		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
15.		Supply and Installation of equal or similar approved to Legrand Arteor 16A two way one-lever light switch complete with recess mount box and cover plate	each	2		
16.		Supply and Installation of O-line P1000 Stainless Steel Unistrut	Sum	1		
17.		Supply and Installation of new Legrand dimming switch or similar approved.	each	4		
18.		Supply and install national photocell. Photocell shall be installed in a IP65 housing.	each	4		
19.		Supply and Installation of equal or similar approved to Schneider occupancy sensor 360°, 7m range complete with all the accessories	each	40		
<u>POWER SUPPLY POINTS</u>						
20.		Supply and Installation of equal or similar approved to Legrand Arteor 16A 230V Dedicated Single switch socket outlet (Red) mounted in power skirting	each	60		
21.		Supply and Installation of equal or similar approved to Legrand Arteor 16A 230V single switched socket outlets (White) mounted in power skirting	each	40		
22.		Supply and Installation of equal or similar approved to Legrand Arteor 16A 230V single flush switch socket outlet (White), complete with recessed mount box and cover plate. (Installed 300mm above floor level)	each	25		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
23.		Supply and Installation of equal or similar approved to Legrand Arteor 16A 230V double flush switch socket outlet (White), complete with recessed mount box and cover plate. (Installed 300mm above floor level)	each	10		
24.		Supply and Installation of equal or similar approved to Legrand Arteor 16A 230V double flush switch socket outlet (White), complete with recessed mount box and cover plate. (Installed 1350mm above floor level)	each	10		
25.		Supply and Installation of equal or similar approved to Legrand Arteor 16A 230V single phase socket outlet with euro and USB outlet (Installed on power skirting)	each	10		
26.		Supply and Installation of equal or similar approved to Legrand Arteor 5A 230V single flush switch socket outlet (White), complete with recessed mount box and cover plate. (Installed in the ceiling)	each	10		
27.		Supply and Installation of equal or similar approved to Legrand Arteor 5A 230V double flush switch socket outlet (White), complete with recessed mount box and cover plate. (Installed in the ceiling)	each	5		
28.		Supply and Installation of equal or similar approved to Legrand 16A 230V single phase cord grip isolator (Installed 1800mm above floor level)	each	5		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
29.		Supply and Installation of equal or similar approved to Legrand 20A 230V single phase cord grip isolator (Installed 1800mm above floor level)	each	5		
30.		Supply and Installation of equal or similar approved to Legrand 30A 230V single phase isolator (Installed 1800mm above floor level)	each	5		
31.		Supply and Installation of equal or similar approved to Legrand 30A 230V single phase isolator (Installed 1800mm above floor level)	each	20		
32		Supply and Installation of equal or similar approved to Legrand 10A 230V single phase cord grip isolator (To be installed in the ceiling void)	each	5		
33.		Supply and Installation of equal or similar approved to Legrand 16A 230V single phase isolator (Mounting to be determined on site)	each	5		
34.		Supply and Installation of equal or similar approved to Legrand 16A 230V single phase weatherproof isolator (Mounting to be determined on site)	each	5		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
35.		Supply and Installation of equal or similar approved to Legrand 16A 400V three phase isolator (Installed 1800mm above floor level)	each	5		
36.		Supply and Installation of equal or similar approved to Legrand 32A 400V three phase weatherproof isolator (Mounting Position to be determined on site)	each	5		
37.		Supply and Installation of equal or similar approved to Legrand 16A 230V single phase socket outlets including extension leads for all the lights,	each	250		
<u>LOW VOLTAGE CABLES</u>						
38.		6mm ² 4core PVC insulated PVC bedded SWA PVC sheathed 600/1000V ECC cable.	m	200		
39.		6mm ² 4core PVC insulated PVC bedded SWA PVC sheathed 600/1000V ECC cable termination kit.	sum	4		
40.		10mm ² 4core PVC insulated PVC bedded SWA PVC sheathed 600/1000V ECC cable.	m	200		
41.		10mm ² 4core PVC insulated PVC bedded SWA PVC sheathed 600/1000V ECC cable.	sum	4		
<u>WIRING</u>						
42.		Low Voltage 2.5 mm2 stranded house wiring for internal wiring - red	m	300		
43.		Low Voltage 2.5 mm2 stranded house wiring for internal wiring - white	m	300		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
44.		Low Voltage 2.5 mm2 stranded house wiring for internal wiring - blue	m	300		
45.		Low Voltage 2.5 mm2 stranded house wiring for internal wiring - black	m	300		
46.		Low Voltage 2.5 mm2 stranded house wiring for internal wiring - green	m	300		
47.		Low Voltage 4 mm2 stranded house wiring for internal wiring - red	m	300		
48.		Low Voltage 4 mm2 stranded house wiring for internal wiring – white	m	300		
49.		Low Voltage 4 mm2 stranded house wiring for internal wiring - blue	m	300		
50.		Low Voltage 4 mm2 stranded house wiring for internal wiring - black	m	300		
51.		Low Voltage 4 mm2 stranded house wiring for internal wiring - green	m	300		
<u>PVC PRODUCTS, SLEEVES AND CONDUIT ACCESSORIES</u>						
52.		20 mm diameter PVC conduit, boxes, couples' adapters and accessories	sum	1		
53.		25 mm Diameter PVC conduit, boxes, couples' adapters and accessories	sum	1		
54.		32 mm Diameter PVC conduit, boxes, couples' adapters and accessories	sum	1		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
55.		PVC trunking Wiring Consumable accessories including Lugs, Ferrules, Terminal Blocks, Screws, connections, compression glands etc.	sum	1		
56.		Equal or Similar approved Legrand 3x70mm ² Diameter PVC conduit, boxes, couples' adapters and accessories	sum	1		
57.		Conduit chasing	sum	1		
		<u>Power Skirting</u>				
58.		Supply and install 3-compartment (70 mm ²) power skirting complete with covers and accessories. (To be mounted along the wall).	sum	1		
59.		Supply and Installation of equal or similar approved to Legrand three-tier droppers	no.	10		
		<u>Cable Ladders and Accessories</u>				
60.		Supply and installation of powder coated hot dipped galvanised cable ladder including bends, T-Pieces, hot dipped galvanised threaded rod, fasteners, and accessories as per tender drawings.	sum	1		
61.		Supply and installation of powder coated hot dipped galvanised wire mesh cable tray including bends, T-Pieces, hot dipped galvanised threaded rod, fasteners, and accessories as per tender drawings	sum	1		
Total Carried Forward						

TRANSNET NATIONAL PORTS AUTHORITY
TENDER NUMBER: TNPA/2024/06/0007/67960/RFP
DESCRIPTION OF THE WORKS: PROVISION OF SERVICES TO UPGRADE THE EXISTING TRANSNET NATIONAL PORTS
AUTHORITY (TNPA) NATIONAL FIRE SERVICE INFRASTRUCTURE AND EQUIPMENT PROJECT (PHASE 2A) IN THE PORT
OF CAPE TOWN FOR A PERIOD OF 1 (ONE) YEAR

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
62.		Supply and installation of powder coated hot dipped galvanised P9000 trunking including bends, T-Pieces, hot dipped galvanised threaded rod, fasteners, and accessories as per tender drawing.	sum	1		
Total Carried Forward to Section Summary						R

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
1.		<p><u>BILL NO.5: ELECTRICAL (GUARDHOUSE)</u></p> <p><u>DISTRIBUTION BOARD</u></p> <p>Design, Supply and installation of Distribution Board B, comprising of all the switch gear, earth leakage, surge protection, labelling and wiring as per drawing No: TBH. 106.N6-2098 Sheet 10 and TPD - 002- DBSPEC</p>	each	1		
2.		<p><u>INTERIOR LIGHTING</u></p> <p>Supply and Installation of new equal or similar approved to Beka series 30 bulkhead LED 10W, surface mounted the wall, EMG/15 MIN</p>	each	6		
3.		Supply and Installation of new equal or similar approved to Beka rondo LED, downlighter 26W recessed mounted.	each	6		
4.		Supply and Installation of new equal or similar approved to Beka rondo LED, downlighter 26W recessed mounted, EMG/15 MIN	each	6		
5.		Supply and Installation of equal or similar approved to Legrand 16A one way two-lever light switch complete with recess mount box and cover plate	each	2		
6.		Supply and install national photocell. Photocell shall be installed in a IP65 housing.	each	4		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
7.		Supply and Installation of equal or similar approved to Schneider occupancy sensor 360°, 7m range complete with all the accessories	each	5		
		<u>POWER SUPPLY POINTS</u>				
8.		Supply and Installation of equal or similar approved to Legrand Arteor 16A 230V Dedicated Single switch socket outlet (Red) mounted in power skirting	each	5		
9.		Supply and Installation of equal or similar approved to Legrand Arteor 16A 230V single switched socket outlets (White) mounted in power skirting.	each	5		
10.		Supply and Installation of equal or similar approved to Legrand Arteor 16A 230V single phase socket outlet with euro and USB outlet (Installed on power skirting)	each	5		
11.		Supply and Installation of equal or similar approved to Legrand Arteor 16A 230V double flush switch socket outlet (White), complete with recessed mount box and cover plate. (Installed 1350mm above floor level)	each	2		
12.		Supply and Installation of equal or similar approved to Legrand 16A 230V single phase cord grip isolator (Installed 1800mm above floor level)	each	3		
13.		Supply and Installation of equal or similar approved to Legrand 10A 230V single phase cord grip isolator (Installed 1800mm above floor level)	each	3		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
14.		Supply and Installation of equal or similar approved to Legrand 16A 230V single phase weatherproof isolator (Mounting to be determined on site)	each	2		
15.		Supply and Installation of equal or similar approved to Legrand 16A 230V single phase socket outlets including extension leads for all the lights.	each	10		
<u>LOW VOLTAGE CABLES</u>						
16.		6mm ² 4core PVC insulated PVC bedded SWA PVC sheathed 600/1000V ECC cable.	m	200		
17.		6mm ² 4core PVC insulated PVC bedded SWA PVC sheathed 600/1000V ECC cable termination kit.	no.	4		
18.		10mm ² 4core PVC insulated PVC bedded SWA PVC sheathed 600/1000V ECC cable.	m	200		
19.		10mm ² 4core PVC insulated PVC bedded SWA PVC sheathed 600/1000V ECC cable.	no.	4		
<u>WIRING</u>						
20.		Low Voltage 2.5 mm ² stranded house wiring for internal wiring - red	m	50		
21.		Low Voltage 2.5 mm ² stranded house wiring for internal wiring - white	m	50		
22.		Low Voltage 2.5 mm ² stranded house wiring for internal wiring - blue	m	50		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
23.		Low Voltage 2.5 mm2 stranded house wiring for internal wiring - black	m	50		
24.		Low Voltage 2.5 mm2 stranded house wiring for internal wiring - green	m	50		
25.		Low Voltage 4 mm2 stranded house wiring for internal wiring - red	m	50		
26.		Low Voltage 4 mm2 stranded house wiring for internal wiring - white	m	50		
27.		Low Voltage 4 mm2 stranded house wiring for internal wiring - blue	m	50		
28.		Low Voltage 4 mm2 stranded house wiring for internal wiring - black	m	50		
29.		Low Voltage 4 mm2 stranded house wiring for internal wiring - green	m	50		
<u>PVC PRODUCTS, SLEEVES AND CONDUIT ACCESSORIES</u>						
30.		20 mm diameter PVC conduit, boxes, couples' adapters and accessories	sum	1		
31.		25 mm Diameter PVC conduit, boxes, couples' adapters and accessories	sum	1		
32.		32 mm Diameter PVC conduit, boxes, couples' adapters and accessories	sum	1		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
33.		PVC trunking Wiring Consumable accessories including Lugs, Ferrules, Terminal Blocks, Screws, connections, compression glands etc.	sum	1		
34.		Conduit chasing	sum	1		
35.		Equal or Similar approved Legrand 70mm2 Diameter PVC conduit, boxes, couples' adapters and accessories	sum	1		
		<u>Power Skirting</u>				
36.		Supply and install 3-compartment (70 mm2) power skirting complete with covers and accessories. (To be mounted along the wall).	sum	1		
37.		Supply and Installation of equal or similar approved to Legrand three-tier droppers	no.	10		
		<u>Cable Ladders and Accessories</u>				
38.		Supply and installation of powder coated hot dipped galvanised cable ladder including bends, T-Pieces, hot dipped galvanised threaded rod, fasteners, and accessories as per tender drawings	sum	1		
39.		Supply and installation of powder coated hot dipped galvanised wire mesh cable tray including bends, T-Pieces, hot dipped galvanised threaded rod, fasteners, and accessories as per tender drawings	sum	1		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
40.		Supply and installation of powder coated hot dipped galvanised P9000 trunking including bends, T-Pieces, hot dipped galvanised threaded rod, fasteners, and accessories as per tender drawings.	sum	1		
41.		<p><u>EARTHING AND LIGHTNING PROTECTION</u></p> <p>Design, Supply and installation of the building earthing and lightning protection including down conductors, conduits for running down conductors, bonding bar, and other accessories.</p> <p><u>TESTING AND COMMISSIONING</u></p> <p>Testing and Commissioning of complete installation in accordance with SANS 10142-1 including the issue of COC certificates</p>	sum	1		
42.		Testing and Commissioning of complete installation in accordance with SANS 10142-1 including the issue of COC certificates	sum	1		
Total carried to section summary						R

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
		<u>BILL NO. 6: ELECTRICAL (PARKING)</u>				
		<u>Junction Box</u>				
1.		Design, Supply and installation of a Junction box	each	4		
		<u>Exterior LIGHTING</u>				
2.		Supply and Installation of new equal or similar approved to Beka VLN LED 26W surfaced mounted	each	8		
3.		Supply and Installation of new equal or similar approved to Beka VLN LED 26W surfaced mounted, EMG/15 MIN	each	8		
4.		Supply and Installation of O-line P1000 Stainless Steel Unistrut	sum	1		
5.		Supply and install national photocell. Photocell shall be installed in a IP65 housing.	each	2		
		<u>LOW VOLTAGE CABLES</u>				
6.		6mm ² 4core PVC insulated PVC bedded SWA PVC sheathed 600/1000V ECC cable.	m	50		
7.		6mm ² 4core PVC insulated PVC bedded SWA PVC sheathed 600/1000V ECC cable termination kit.	sum	4		
8.		10mm ² 4core PVC insulated PVC bedded SWA PVC sheathed 600/1000V ECC cable.	m	50		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
9.		10mm ² 4core PVC insulated PVC bedded SWA PVC sheathed 600/1000V ECC cable.	sum	4		
		<u>WIRING</u>				
10.		Low Voltage 2.5 mm2 stranded house wiring for internal wiring - red	m	50		
11.		Low Voltage 2.5 mm2 stranded house wiring for internal wiring - white	m	50		
12.		Low Voltage 2.5 mm2 stranded house wiring for internal wiring - blue	m	50		
13.		Low Voltage 2.5 mm2 stranded house wiring for internal wiring - black	m	50		
14.		Low Voltage 2.5 mm2 stranded house wiring for internal wiring - green	m	50		
		<u>PVC PRODUCTS, SLEEVES AND CONDUIT ACCESSORIES</u>				
15.		20 mm diameter PVC conduit, boxes, couples' adapters and accessories	no.	1		
16.		25 mm Diameter PVC conduit, boxes, couples' adapters and accessories	no.	1		
17.		32 mm Diameter PVC conduit, boxes, couples' adapters and accessories	no.	1		
18.		PVC trunking Wiring Consumable accessories including Lugs, Ferrules, Terminal Blocks, Screws, connections, compression glands etc.	no.	1		
Total Carried Forward						

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
19.		<u>Cable Ladders and Accessories</u> Supply and installation of powder coated hot dipped galvanised P9000 trunking including bends, T-Pieces, hot dipped galvanised threaded rod, fasteners, and accessories as per tender drawings	sum	1		
20.		<u>EARTHING AND LIGHTNING PROTECTION</u> Design, Supply and installation of the building earthing and lightning protection including down conductors, conduits for running down conductors, bonding bar, and other accessories.	sum	1		
21.		<u>TESTING AND COMMISSIONING</u> Testing and Commissioning of complete installation in accordance with SANS 10142-1 including the issue of COC certificates	sum	1		
Total Carried forward to Section Summary						R

Item No.	Payment Ref.	Description	Unit	Quantity	Unit Rate	Amount
Total Brought Forward						
1.		<u>BILL NO.7: ELECTRICAL (LIGHT POLE RELOCATION)</u> <u>Light Pole Relocation</u> Relocate the lighting pole that is indicated on drawing: TBH. 106.N6-2098 Sheet 2. The new location of the lighting pole should be at least 5m from the original position.	sum	1		
Total Carried Forward to Section Summary						R

Item No.	Payment Ref.	Description	Unit	Quantity	Unit Rate	Amount
Total Brought Forward						
		<u>BILL NO. 8: DEMOLISHING WORK</u>				
1.		<u>DEMOLISHINGS</u> Dismantle and remove and transport to the nearest depot existing electrical equipment including, lights, socket outlets, conduit and associated electrical installation in the Fire building.	sum	1		
2.		Dismantle and remove and transport to the nearest depot the existing Mispion Bridge 200kVA, 11.75kV/400V Miniature substation.	sum	1		
Total Carried Forward to Section Summary						R

TRANSNET NATIONAL PORTS AUTHORITY
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Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Brought Forward						
1.		<u>BILL NO.9: SURVEY</u> <u>Survey</u> Perform an electrical underground survey	sum	1		
Total Carried Forward to Section Summary						R

Item No.	Payment Ref.	Description	Unit	Quantity	Rate	Amount
Total Carried Forward						
1		<u>BILL NO.10: STANDBY PLANT</u> <u>STANDBY DIESEL GENERATOR PLANT</u> Design, supply, and install a 200kVA, 400V diesel standby generator plant for continuous back-up operation. The generator shall be supplied and installed with an automatic changeover panel, battery charger and encased in a 3CR12 steel material with sound attenuation. The engine of the generator shall be similar or equal approved to Deutz, the alternator shall be similar or equal to Marelli with a power factor of 0.8 and 50Hz frequency and a similar or equal approved to deep sea converter. The generator plant shall be supplied with a 100m 4 core 240mm ² , ECC, SWA LV 600/1000V cable for connecting the main provisional facility incomer and the changeover panel. The generator plant shall be supplied with an 8 x 240mm ² , ECC, SWA LV 600/1000V termination kit for connecting the main provisional facility incomer and the changeover panel	sum	1		
2.		Testing and commissioning of the entire installation	sum	1		
3.		Allow for fuel to fill the tank to full capacity (100%) at the time of issuing the first delivery (handover)	sum	1		
4.		Training, Maintenance Manual and Documentation, including as built drawings: (four of each)	sum	1		
5.		Maintenance for one year (2 visits per month, for a period of 12 months). Maintenance shall start after the first Delivery Certificate has been issued	sum	1		
<u>END OF SECTION 5</u>						
Total Carried to Section Summary						R

BILL NO.	SECTION 5 SUMMARY	AMOUNT
1	BILL NO.1: MEDIUM VOLTAGE ELECTRICAL RETICULATION	
2	BILL NO.2: LOW VOLTAGE ELECTRICAL RETICULATION	
3.	BILL NO.3: ELECTRICAL (GROUND FLOOR)	
4.	BILL NO. 4: ELECTRICAL (FIRST FLOOR)	
5.	BILL NO.5: ELECTRICAL (GUARD HOUSE)	
6.	BILL NO.6: ELECTRICAL (PARKING)	
7.	BILL NO.7: ELECTRICAL (LIGHT POLE RELOCATION)	
8.	BILL NO.8: DEMOLISHING WORK	
9.	BILL NO.9: SURVEY	
10.	BILL NO.10: STANDBY PLANT STANDBY DIESEL GENERATOR PLANT	
TOTAL EXCLUDING VAT CARRIED TO FINAL SUMMARY		R

TRANSNET NATIONAL PORTS AUTHORITY
TENDER NUMBER: TNPA/2024/06/0007/67960/RFP
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OF CAPE TOWN FOR A PERIOD OF 1 (ONE) YEAR

SECTION NO.	FINAL SUMMARY	AMOUNT
1	PRELIMINARIES & GENERAL	
2	CIVIL WORK	
3	MECHANICAL WORK	
4	CONTROL & INSTRUMENTAL WORK	
5	ELECTRICAL WORK	
TOTAL EXCLUDING VAT CARRIED TO FORM OF OFFER AND ACCEPTANCE		R