

TRANSNET SOC LTD

TENDER NO.: iCLM EL 725/TPT
(e-Tender Reference No.: TPT/2024/10/0023/81242/RFP)

DESCRIPTION OF THE SERVICES: REFURBISHMENT OF THE GRAIN ELEVATOR SUBSTATIONS AT THE EAST LONDON MULTI PURPOSE TERMINAL FOR TRANSNET SOC LTD (REG NO. 1990/000900/30) OPERATING AS TRANSNET PORT TERMINALS (HEREINAFTER REFERRED AS "TPT") FOR THE DURATION OF 12 MONTHS

ADDENDUM NO. 05

DATED 04 December 2024

The following information is hereby furnished for your further attention in respect of the above-mentioned service/tender.

1. C2.2 The Bill of Quantities

The following changes were made on the Bill of Quantities:

- Item description changed for item 3.2, 3.5 & 3.6 under section H:

H	Cables, Routes, and Building Modifications
ITEM NO.	ITEM DESCRIPTION
3.2	Supply, install, and commission 95mm ² XLPE SWA Cu 11kV 3 core cable
3.5	Select, Supply, and install MV cables trifurcation joints (95mm ² , 11kV, 3 core XLPE cable to 1 core XLPE cables).
3.6	Select, Supply, and install MV cables trifurcation joints (150mm ² , 11kV, 3 core XLPE cable to 1 core XLPE cables).

- Additional items 3.7, 3.8, 6, 7 & 8 is added under section H:

H	Cables, Routes, and Building Modifications	QUANTITY	UNIT
ITEM NO.	ITEM DESCRIPTION		
3.7	Supply, install, and commission 150mm ² XLPE SWA Cu 11kV 1 core cable	120	m
3.8	Supply, install, and commission 95mm ² XLPE SWA Cu 11kV 1 core cable	100	m
6	Earthworks - pipe trenches (See the attached Civil breakdown BOQ)	1	Sum
7	Supply and install new 11kV TRF standard terminations.	9	ea
8	Supply and install new 400V TRF standard terminations.	9	ea

2. T1.1 Tender Notice and Invitation to Tender

The closing date of the tender/RFP is further extended from 06 December 2024 @ 12h00 pm until **11 December 2024 @ 12h00 pm.**

Note:

- **A revised C2.2 Bill of Quantities are attached for completion by the bidder/tenderer. Bidders must ensure that they download the revised C2.2 Bill of Quantities for completion and submission. Failure to submit the revised C2.2 Bill of Quantities will result in disqualification and will therefore not be considered for evaluation.**
- **The Civil breakdown BOQ is provided for information purposes to provide a total price for item 6 (Earthworks - Pipe Trenches) under section H of the BOQ.**

WITNESSES:

TENDERER / BIDDER

Date: _____

APPROVED BY:

Lesley Pillay



TRANSNET SOC LTD

Date: 04.12.2024

Dear Sirs/ Madam

**TENDER NO.: iCLM EL 725/TPT
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Receipt of **Addendum No. 05 dated 04 December 2024** is hereby acknowledged.

Kind regards

TENDERER NAME
DATE:

NOTE: This acknowledgement must be signed and returned via email on or before closing date of tender via email to granville.vandermerwe@transnet.net

TRANSNET PORT TERMINALS
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MULTI PURPOSE TERMINAL FOR TRANSNET SOC LTD (REG NO. 1990/000900/30) OPERATING AS TRANSNET PORT
TERMINALS (HEREINAFTER REFERRED AS "TPT") FOR THE DURATION OF 12 MONTHS

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>	17



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

(21) The Bill of Quantities is the *bill of quantities* as changed in accordance with this contract to accommodate implemented compensation events and for accepted quotations for acceleration.

(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.

(28) The Price for Work Done to Date is the total of

- the quantity of the work which the *Contractor* 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 *Contractor* has completed.

Completed work is work without Defects which would either delay or be covered by immediately following work.

(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.

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	Work day

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.

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

- 2.2.5. An item against which no Price is entered will be treated as covered by other Prices or rates in the *bill of quantities*. If a number of items are grouped together for pricing purposes, this will be treated as a single lump sum.
- 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. Departures from the *method of measurement*

2.4. 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.



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C2.2 The *bill of quantities*

East London Grain Elevator Substation Refurbishment						
ITEM	PAY REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		<u>SECTION 1</u>				
1		<u>PRELIMINARY & GENERAL</u>				
		NOTE: Tenderers are to price this Schedule strictly in accordance with the Specifications and SANS 1200, where a conflict arises between these two documents the Specifications shall take precedence. Where a conflict arises between this Schedule and the Specifications, the Specifications shall take precedence. Tenderers shall study all relevant information before pricing this Schedule and the Schedule shall be priced to provide the complete Works				
		To be read in conjunction with but not limited to the following Project Technical Specification(s): Part C3: Works Information				
	SANS 1200 A	<u>GENERAL</u>				
1.1	PSA 8.3	<u>SCHEDULED FIXED-CHARGE ITEMS</u>				



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ITEM	PAY REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1.1.1	8.3.1	<u>Contractual requirements</u>				
		a) Sureties	Sum	1		
		b) Insurance of the works and plant	Sum	1		
		c) Third party or public liability insurance	Sum	1		
		d) Unemployment insurance	Sum	1		
		e) Performance security as per <i>Employer's</i> requirements	Sum	1		
	PSA 8.3.2	<u>ESTABLISHMENT OF FACILITIES ON THE SITE</u>				
1.1.2	PSA 8.3.2.1	<u>FACILITIES FOR CONTRACTOR</u>				
		a) Offices and storage sheds (1 No. Offices 1 No. Sheds)	Sum	1		
		e) Ablution and latrine facilities	Sum	1		
		f) Tools and equipment	Sum	1		



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ITEM	PAY REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		g) Water supplies, electric power and communications	Sum	1		
		h) Access	Sum	1		
1.1.4	PSA-8.3.3	<u>OTHER FIXED-CHARGE OBLIGATIONS</u>				
		a) Management meetings	Sum	1		
		b) Documentation control including provision and/ or submission for approval of all <i>Contractor's</i> documents as part of the execution of the works	Sum	1		
		c) Safety risk management including but not limited to the Safety Plan as required by the Occupational Health and Safety Act, Act 85 of 1993	Sum	1		
		d) Environmental management including but not limited to Environmental Method Statements in accordance with the Construction Environmental Management Plan	Sum	1		
		e) Quality assurance requirements	Sum	1		



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ITEM	PAY REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		f) Site security requirements	Sum	1		
		g) Programming	Sum	1		
		h) Industrial relations management	Sum	1		
		i) Operation and maintenance manuals of the installation, operation and maintenance manuals and drawings for the equipment under this contract				
		i) Draft copies, three [3] in number	Sum	1		
		ii) Final copies, number to be confirmed by <i>Employer</i>	Sum	1		
1.1.5	PSA-8.3.5	<i>Contractor's design</i>				
1.1.5.1	PSA-8.3.5.1	<u>Design including but not limited to:</u>				
		a) Engineering package including detailed manufacturer design of MV and LV distribution panels, medium voltage switch gear and associated protection & control systems panels,HVAC, Power Factor Correction and Fire Systems	Sum	1		



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ITEM	PAY REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		b) Drawing submissions (all submissions for approval and/ or review by the <i>Employer</i>)	Sum	1		
		c) Compilation and provision of as-built documentation in both electronic and hard copy format, including but not limited to test and commissioning certificates, check lists, drawings etc. Note: All as-built drawings shall be provided in 4xCD roms with Adobe Acrobat (PDF & Native format)	Sum	1		
1.1.6	8.3.4	<u>REMOVAL OF SITE ESTABLISHMENT</u>				
		a) Removal of site establishment	Sum	1		
1.2	PSA 8.4	<u>TIME-RELATED ITEMS</u>				
		-				
	PSA 8.4	<u>SCHEDULED TIME-RELATED ITEMS</u>				
1.2.1	8.4.1	<u>Contractual requirements</u>				
		a) Sureties	Sum	1		



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ITEM	PAY REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		b) Insurance of the works and plant	Sum	1		
		c) Third party or public liability insurance	Sum	1		
		d) Unemployment insurance	Sum	1		
		e) Performance security as per <i>Employer's</i> requirements	Sum	1		
		f) Other	Sum	1		
	PSA 8.4.2	OPERATION AND MAINTENANCE OF FACILITIES ON SITE, FOR DURATION OF CONSTRUCTION, EXCEPT WHERE OTHERWISE STATED				
1.2.3	8.4.2.2	FACILITIES FOR <i>CONTRACTOR</i>				
		a) Offices and storage sheds (1 No. Offices 1 No. Sheds)	Sum	1		
		b) Ablution and latrine facilities	Sum	1		



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ITEM	PAY REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		c) Tools and equipment	Sum	1		
		d) Access	Sum	1		
1.2.4	8.4.3	SUPERVISION FOR DURATION OF CONSTRUCTION				
		a) Supervision for the duration of construction	Sum	1		
1.2.5	8.4.4	COMPANY AND HEAD OFFICE OVERHEAD COSTS FOR THE DURATION OF THE CONTRACT				
		a) Company and head office overhead costs for the duration of the contract	Sum	1		
1.2.6	PSA-8.4.5	OTHER TIME-RELATED OBLIGATIONS				
		a) Management meetings	Sum	1		
		b) Documentation control including provision and/ or submission for approval of all <i>Contractor's</i> documents as part of the execution of the works	Sum	1		



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ITEM	PAY REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		c) Occupational Health and Safety Specification compliance	Sum	1		
		d) Construction Environmental Management Plan compliance	Sum	1		
		e) Quality assurance requirements	Sum	1		
		f) Site security requirements (PSIRA Registered)	Sum	1		
		g) Programming and progress reporting	Sum	1		
		j) Transportation	Sum	1		
		TOTAL CARRIED TO SUMMARY				



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ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	SUPPLY RATE	INSTALLATION RATE	TOTAL
	<p><u>SECTION 2</u></p> <p>NOTE</p> <p>This Bill of Quantities shall be read in conjunction with the drawings, works information and the specifications and shall be priced to provide a complete installation, i.e. the supply where required, installation, testing and commissioning plus handing over of the fully functional equipment / installation. The Contractor to furnish all design and shop drawings if applicable and any associated equipment specifications for approval prior to manufacturing and delivery to site</p>					
	To be read in conjunction with but not limited to the following Project Technical Specification(s): Part C3: Works Information					
A	PREPARATION WORKS FOR THE PROPOSED SUBSTATION					
ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	SUPPLY RATE	INSTALLATION RATE	TOTAL
1	Disconnect and removal of the existing MV switchgear, LV switchgear and battery bank to be replaced.	2	sum			
					TOTAL	



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B						
MEDIUM VOLTAGE SWITCHGEAR						
ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	SUPPLY RATE	INSTALLATION RATE	TOTAL
1	Design, supply, and install a new 1250A 11kV incomer VCB panel.	2	ea			
2	Design, supply, and install a new 1250A 11kV bus section VCB panel.	1	ea			
3	Design, supply, and install a new 630 11kV feeder VCB panel.	3	ea			
4	Design, supply a new spare 630 11kV feeder VCB panel.	1	ea			
5	Design supply and install a 11kV bus-riser panels/bus-bar Earth /VT panels.	1	ea			
6	Design, supply, install and commission a complete arc ducting and protection system for the 11kV switchgear	1	Sum			
7	Design, supply, install a battery bank (enclosed in a cabinet) and battery terminal unit for the 11kV switchgear complete with protection and wiring.	1	Sum			
8	Provision of racking tools	1	Sum			
TOTAL						
C						
LOW VOLTAGE SWITCHGEAR						
ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	SUPPLY RATE	INSTALLATION RATE	TOTAL
1	Design, supply, and install a new LV switchgear including new standard terminations for the existing incomer and feeder.	1	Sum			
2	design, supply, and install a control panel for the proposed MV switchgear complete with cabling.	1	Sum			
TOTAL						



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D ELECTRICAL, LIGHTING AND POWER						
ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	SUPPLY RATE	INSTALLATION RATE	TOTAL
1	Design, supply, and install a new lighting and small power	1	Sum			
TOTAL						
E TRANSFORMERS						
ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	SUPPLY RATE	INSTALLATION RATE	TOTAL
1	Design supply and install a stainless-steel containment tray around the existing transformers	3	ea			
TOTAL						
F MEDIUM VOLTAGE CABLE TERMINATION						
ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	SUPPLY RATE	INSTALLATION RATE	TOTAL
1	Supply new 630A Feeder MV plug type terminations designed to EN 50181 and DIN 47637.	14	ea			
2	Supply new 1250A Incomer MV plug type terminations designed to EN 50181 and DIN 47637.	7	ea			
TOTAL						



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G						
Earthing and Lightning Protection						
ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	SUPPLY RATE	INSTALLATION RATE	TOTAL
1	Design, supply, and install earthing and lightning surge protection for the proposed substation upgrades.	1	Sum			
TOTAL						
H						
Cables, Routes, and Building Modifications						
ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	SUPPLY RATE	INSTALLATION RATE	TOTAL
1	Replacement of old chequered plates and sealing of cable entry/exit opening	1	Sum			
2	Provisional sum for the building refurbishments.					
2.1	Prepare, which shall include the filling of cracks, and repaint internal walls including ceilings for all substations rooms.	1	Sum			
2.2	Provision of an automated pump system complete with all piping and level detectors to automatically detect and pump the water out of the MV cable trenches.	1	Sum			
2.3	Design supply and installation of a 300cm to 500cm steel platform for the 11kV switchgear. This is to allow for sufficient bending radius of the cables. The platform shall be 3Cr12 as a minimum.	1	Sum			
2.4	Prepare and repaint the substations rooms floors with an acceptable industry specification for switchgear rooms.	1	Sum			



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ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	SUPPLY RATE	INSTALLATION RATE	TOTAL
3	Provisional sum for the testing, joining and replacement of cables.					
3.1	Supply, install, and commission 150mm ² XLPE SWA Cu 11kV 3 core cable	300	m			
3.2	Supply, install, and commission 95mm ² XLPE SWA Cu 11kV 3 core cable	300	m			
3.3	630mm ² XLPE SWA Cu 11kV 1 core cable	200	m			
3.4	Select, Supply, and install MV cables transition joints (150mm ² , 11kV, 3 core Paper oil impregnated to 3 core XLPE cable.)	4	ea			
3.5	Select, Supply, and install MV cables trifurcation joints (95mm ² , 11kV, 3 core XLPE cable to 1 core XLPE cables).	5	ea			
3.6	Select, Supply, and install MV cables trifurcation joints (150mm ² , 11kV, 3 core XLPE cable to 1 core XLPE cables).	3	ea			
3.7	Supply, install, and commission 150mm ² XLPE SWA Cu 11kV 1 core cable	120	m			
3.8	Supply, install, and commission 95mm ² XLPE SWA Cu 11kV 1 core cable	100	m			
4	Replacement of substation doors and provision of signages.	1	Sum			
5	Refurbishment of Transformers	3	ea			
6	Earthworks - pipe trenches (See the attached Civil breakdown BOQ)	1	Sum			
7	Supply and install new 11kV TRF standard terminations.	9	ea			
8	Supply and install new 400V TRF standard terminations.	9	ea			
						TOTAL



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I						
Power System Protection						
ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	SUPPLY RATE	INSTALLATION RATE	TOTAL
1	Load flow, short circuit and protection grading study and configuration.	1	Sum			
2	Provision of a standalone ETAP licenced software.	1	ea			
						TOTAL
J						
Power Quality						
ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	SUPPLY RATE	INSTALLATION RATE	TOTAL
1	Design, supply, and installation of a 500kVar, five stepped with 100kVars, 11kV PFC complete with Harmonic filtration power quality solution equal or similar approved to the ABBACUS E-series technology. Incoming cables and terminations to be priced as part of the complete solution for this item.	1	Sum			
						TOTAL



TRANSNET PORT TERMINALS

TENDER NUMBER: iCLM EL 725/TPT

DESCRIPTION OF THE WORKS: THE REFURBISHMENT OF THE GRAIN ELEVATOR SUBSTATIONS AT THE EAST LONDON MULTI PURPOSE TERMINAL FOR TRANSNET SOC LTD (REG NO. 1990/000900/30) OPERATING AS TRANSNET PORT TERMINALS (HEREINAFTER REFERRED AS "TPT") FOR THE DURATION OF 12 MONTHS

K						
HVAC and Fire						
ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	SUPPLY RATE	INSTALLATION RATE	TOTAL
1	Design, supply and installation of the fire detection and suppression system.	1	Sum			
2	Design, supply and installation of the HVAC/climate control plant (Pressurising).	1	Sum			
						TOTAL
L						
Testing and Commissioning						
ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	SUPPLY RATE	INSTALLATION RATE	TOTAL
1	Test and commission the entire installation. The contractor shall issue test, certificates, user manuals and as-built drawings. (Refer to works information)	1	Sum			
						TOTAL
TOTAL TENDER AMOUNT						



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ITEM	DESCRIPTION	UNIT	QTY	AMOUNT
	SUMMARY			
	SECTION 1			
1	Preliminary and General	sum	1	
	SECTION 2			
A	Preparation works for the proposed substation upgrades	sum	1	
B	Medium voltage switchgear	sum	1	
C	Low voltage switchgear	sum	1	
D	Electrical, Lighting and Power	sum	1	
E	Transformers	sum	1	
F	Medium Voltage Cable Termination	sum	1	
G	Earthing and Lightning Protection	sum	1	
H	Cables, Routes, and Building Modifications	sum	1	
I	Power System Protection	sum	1	



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J	Power Quality	sum	1	
K	HVAC and Fire	sum	1	
L	Testing and Commissioning	sum	1	
	TOTAL DIRECT COST			

Note: Total of the Prices must be transferred to the Form of Offer

PAYMENT REF	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		<u>EARTHWORKS - PIPE TRENCHES</u>				
	1	Removal of existing surfaces				
	1.1	Saw cutting existing asphalt pavement, 50mm thick	m	602		
	1.2	Break up and remove existing asphalt pavement	m ³	13		
	1.3	50 mm concrete paving	m ³	40		
	1.4	Allow for breaking and removal of concrete slab	m ³	2		
	1.5	Allow for breaking and removal of 150mm half round existing stormwater channel	m	10		
	1.6	Excavate in all materials for trenches, backfill, compact ne 2m deep and dispose of surplus materials	m ³	300		
	2	<u>Excavation ancillaries</u>				
	2.1	Make up deficiency in backfill material				
	2.1.1	150mm thick G5 material including compaction to 98% MODASHTO	m ³	76		
	2.1.2	150mm thick G2 material including compaction to 98% MODASHTO	m ³	76		
	3	Compaction in road reserves	m ²	150		
	4	<u>Finishing</u>				
	4.1	Re-instate road surfaces with all courses				
	4.1.1	Asphalt of 50mm thickness	m ²	300,00		
	4.1.2	50mm Concrete paving blocks on 30mm river bed sand filling, 150mm G5 and 150mm G2 fill material compacted by hand	m ²	40,00		
		<u>CABLE DUCTS</u>				
	5	Supply, lay, bed, and prove duct				
	5.1	Set of 4 160mm diameter uPVC pipes	m	300,00		
	5.2	Imported bedding material, where ordered	m ³	13		
	6	Draw pits/manholes				
	6.1	Type E3 manhole including excavation, backfilling, compaction, etc	no	2,00		
	6.2	Type E6 manhole including excavation, backfilling, compaction, etc	no	1,00		
	7	Cable Markers				
	7.1	Route Markers	No.	3,00		
	7.2	Kerb Markers	No.	2,00		
	8	<u>BEDDING- PIPES</u>				
	8.1	Encasing of pipes in concrete				
	8.2	15 Mpa unreinforced concrete encasing around 160mm diameter uPvc sleeve pipes	m ³	200,00		