

The prequalification of a panel of contractors for the construction and dismantling of MV and HV distribution substations, traction stations, switching stations and bays for voltages ranging from 1.1kV up to and including 132kV within LimLanga Cluster-Limpopo, on an ``as and when`` required basis

PART 2: PRICING DATA

Document reference	Title	
C2.1	Pricing assumptions: Option B	
C2.2	The <i>bill of quantities</i>	

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C2.1 Pricing assumptions: Option B

1. The conditions of contract

1.1. How work is priced and assessed for payment

Clause 11 in NEC3 Engineering and Construction Contract, June 2005 (ECC3) Option B states:

Identified and defined terms	11 11.2	(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.
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(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*.

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.

The P & G section of the bill is not used for the assessment of compensation events.

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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. An item against which no Price is entered will be treated as covered by other Prices or rates 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.

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- 2.2.4. 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.
- 2.2.5. The short descriptions of the items of payment given in the *bill of quantities* are only for the purposes of identifying the items. 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*

2.3.1.

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 *provisional bill of quantities*

NEC 3 ECC Documentation	<p><u>Stage 1 (RFP) process -Prequalification:</u> Acceptance of the Eskom standardised Labour rates as included in the NEC 3 ECC by signing for the rates on NEC 3 or submitting a separate letter in the company's letterhead confirming acceptance of the rates.</p> <p><u>Stage 2 (RFQ) process:</u></p> <ul style="list-style-type: none"> • Tenderers will be requested to submit a fully completed Bill of quantities for Preliminary and General (P&G) and material. The contractors must quote on all items/ provide pricing for all items, failure which will render their tender non-responsive. • Tenderers will be requested to submit the confirmation of acceptance of the standardised Labour rates as included in the RFQ for project specific.
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NOTE: P&G's guideline – Applicable on stage 2 process.

<p><i>Preliminaries and General includes:</i></p> <ul style="list-style-type: none"> - <i>Site Establishment including 1x site office facility, 1 x storage facility, dining facility, His and Hers toilets, perimeter fence, drinkable water, electrical power supply, lighting and etc as per the requirement of OSH ACT85</i> - <i>Site camps including reasonable shelter with sleeping and ablution facilities. NB camping tents are prohibited</i> <ul style="list-style-type: none"> - <i>Company & head office overhead costs</i> <ul style="list-style-type: none"> - <i>Contractual requirements</i> - <i>Operation & maintenance of facilities</i> <ul style="list-style-type: none"> - <i>Supervision</i> - <i>Machinery hire purchase costs, transport cost to and from site.</i> - <i>Assistance and arrangement with Eskom stores for transport and delivery of material</i> <ul style="list-style-type: none"> - <i>Receiving, taking control and administering material.</i> - <i>Cost for Compliance to Construction Regulations requirements as well as Cost for Compliance to the Health and Safety Specification, compiling a Health and Safety Plan, etc; Refer to Sections 2 and 3.</i> <ul style="list-style-type: none"> - <i>Compliance to all Environmental requirements</i> <ul style="list-style-type: none"> - <i>Removal of site establishment</i> <p><i>NB - Eskom security will only be provided where Eskom material is stored.</i></p>

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SUBSTATION CONSTRUCTION BILL OF QUANTITIES (Year 1)						
2		CIVIL - EARTHWORKS				
2.1		SITE CLEARANCE		Supply	Install/Erect	
2.1.1		Allow for clearing the area of the site to be built upon of all grass, weeds, shrubs, trees with trunks not exceeding 200mm girth, debris, etc., including grubbing up all roots, scoffling up as required and cart away all vegetation and debris to a dumping site. All charges to be borne by the Contractor.	m2	Quotation	R	18.45
		<u>Cut down and remove, grub up roots and fill in holes:</u>				
2.1.2		Tree exceeding 200mm and not exceeding 500mm girth.	each	Quotation	R	1 230.32
2.1.3		Tree exceeding 500mm and not exceeding 1000mm girth.	each	Quotation	R	1 845.48
2.1.4		Remove topsoil as specified in the design	m2	Quotation	R	56.14
		Herbicide Allowance	Sum	Quotation	R	19.50
2.2		MASS EARTHWORKS				
		<u>Open face excavation and stockpile in preparation of substation platform</u>				
2.2.1		Soft soil	m3	R 0.00	R	86.13
2.2.2		Intermediate (Site instruction)	m3	R 0.00	R	134.11
2.2.3		Hard rock (Site instruction)	m3	R 0.00	R	786.10

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2.2.4		Blasting (Site instruction)	Sum	Quotation	R	1 107.29
2.2.5		Cart away all excess burden to an approved dumping site in excess of 1km	m3/km	R 0.00	R	14.77
		<u>Preparation of platformbed</u>				
2.2.6		Rip and compact to MOD AASHTO Density as specified on the design	m3	R 0.00	R	243.35
		<u>Selected layers using material from designated borrow pits/ Commercial source or excavations including spreading</u>				
2.2.7		Cut to fill to make platform level	m3	R 0.00	R	135.35
2.2.8		Transport fill material from designated borrow/ commercial source in excess of 5km	m3/km	R 0.00	R	14.77
2.2.9		Supply material from commercial source	m3	Quotation	R	86.13
2.2.10		Compact to MOD AASHTO Density as specified in the design	m3	R 0.00	R	148.57
2.2.11		Finishing off cut and fill slopes	m2	R 0.00	R	104.57
2.3		BORROW MATERIALS	-			
2.3.1		Removal of excess overburden (top soil)	m3	R 0.00	R	178.27
2.3.2		Excavate and load material from borrow	m3	R 0.00	R	174.70
		Finishing-off (Rehabilitation) borrow areas in:				
2.3.3		Intermediate material	m2	R 0.00	R	104.57

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2.3.4		Soft material	m2	R 0.00	R	79.98
		Compensation to landowners:				
2.3.5		Prime cost sum for compensation to landowners	sum	Quotation		
2.3.6		Fencing of borrow pits	m	R 0.00	R	157.49
2.4		DRAINS				
		Excavation for open drains:				
2.4.1		Excavating soft and intermediate material situated within the				
		following depth ranges below the surface				
		level:				
		(i) 0m up to 1,5m	m ³	R 0.00	R	92.77
		(ii) Exceeding 1,5m and up to 3,0m	m ³	R 0.00	R	120.72
2.4.2		Extra over for excavation in				
		hard material, irrespective of depth	m ³	R 0.00	R	123.03

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2.4.3		Cleaning and shaping existing open drains	m ³	R 0.00	R	123.03
2.4.4		Impermeable backfilling to subsoil drainage				
		systems	m ³	R 0.00	R	80.34
2.4.5		Natural permeable material in subsoil drainage				
		systems (crushed stone):				
		(i) Crushed stone obtained from commercial				
		sources (no overhaul):	m ³	Quotation	R	356.79
		(ii) Coarse grade stone (19mm nominal size				
		aggragate)	m ³	Quotation	R	362.94
2.4.6		Natural permeable material in subsoil drainage				
		systems (sand):				
		(i) River Sand from (Local Supply) commercial sources	m ³	Quotation	R	313.74
2.4.7		Pipes in subsoil drainage systems:				
		(i) Unplasticized PVC pipes and fittings, normal				
		duty, complete with couplings:	m	Quotation	R	82.38

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		(ii) 150mm diameter, perforated	m	Quotation	R	94.14
2.4.8		Polyethylene sheeting, 0,25mm thick, or similar approved material, for lining subsoil drainage systems	m ²	Quotation	R	70.62
2.4.9		Synthetic-fibre filter fabric:				
		(i) Non-woven needle punched type	m ²	Quotation	R	105.50
		(ii) Kaymat U24 or approved equivalent	m ²	Quotation	R	113.22
2.4.10		Concrete outlet structures, manhole boxes, junction boxes and cleaning eyes for subsoil drainage systems:				
		(i) Outlet structures	No.	Quotation	R	588.41
		(ii) Concrete caps for subsoil drain pipes	No.	Quotation	R	176.52
		(iii) Test flushing of pipe subsoil drains	No.	Quotation	R	764.94

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		(iv)Galvanized wire mesh, 250 x 250mm, at the				
		outlets of subsoil drainage systems. Mesh				
		10mm x 10mm x 2,5mm wire diameter	No.	Quotation	R	400.12
2.4.11		PREFABRICATED CULVERTS				
		Concrete pipe culverts:				
		(A) On Class B bedding:				
		(i) 600mm dia. (Class 75D)	m	Quotation	R	564.89
		(ii) 750mm dia. (Class 50D)	m	Quotation	R	568.41
		(B) In inlet and outlet structures, catchpits,manholes, thrust and anchor				
		blocks, excluding formwork but including Class U2 surface finish:				
		(i) Class 25/19 concrete	m ³	Quotation	R	568.41
		(ii) Concrete (Class 20/19)	m ³	Quotation	R	693.15
		(iii) Formwork of concrete	m ³	Quotation	R	294.21
		(iv) Class F1 surface finish	m ²	Quotation	R	150.63

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2.4.12		Steel reinforcement:				
		(i) Mild steel bars	t	Quotation	R	6 756.07
		(ii) High-tensile steel bars	t	Quotation	R	6 756.07
		(iii) High tensile steel mesh:	t	Quotation	R	6 756.07
2.4.13		Prefabricated reinforced concrete skew end units for				
		concrete culverts constructed at skew angle.				
		(i) 600mm dia. (Class 75D)	No.	Quotation	R	557.82
		(iii) 750mm dia. (Class 50D)	No.	Quotation	R	823.79
		CONCRETE KERBING, CONCRETE CHANNELLING				
		OPEN CONCRETE CHUTES AND CONCRETE				
		LININGS FOR OPEN DRAINS				
2.4.14		Concrete lining for open drains:				
		Cast in situ concrete open-drain (Class 25/19) including excavation and preparation of ground	m ³	Quotation	R	647.27
2.4.15		Steel reinforcement:				
		Welded steel fabric (High-tensile steel)	kg	Quotation	R	18.08

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2.4.16		Concrete edge beams, 150mm x 150mm (class 30/19				
		concrete)	m	Quotation	R	81.20
2.5		<u>ROAD WORKS</u>				
2.5.1		<u>SITE CLEARANCE</u>				
		Preparation and stripping of top soil and grub to 150mm deep and grub the full road reserve 8m wide, spoil and spread.	m ³	Quotation	R	188.97
2.5.2		<u>EARTHWORKS (roads, subgrade)</u>				
2.5.2.1		Treatment of Roadbed				
		Roadbed preparation for in-situ 150mm and compaction to:				
		(1) Mod AASHTO maximum density	m ³	Quotation	R	90.92
		(2) In-place treatment of road-bed in intermediate or hard				
		rock material by:				
		(i) Ripping (provisional)				

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		(ii) Three-pass roller compaction	m ³	Quotation	R	270.68
		(iii) Grid roller (provisional)	m ³	Quotation	R	182.41
		Soft soil	m3	Quotation	R	53.87
		Intermediate (Site instruction)	m3	Quotation	R	209.16
		Hard rock (Site instruction)	m3	Quotation	R	308.82
		Blasting (Site instruction)	m3	Quotation	R	1 107.29
2.5.2.2		ROAD FILL & SUBBASE				
		Compact to MOD AASHTO as specified in the design				
		Stabilizing agent:				
		(1)Portland cement @ 2.5%	no	Quotation	R	371.56
		(2) Road lime	no	Quotation	R	336.58
		ANCILLARY ROADWORKS				

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2.5.3		DRAINAGE				
2.5.3.1		Supply & lay concrete pipe culverts 9m long:				
		01) 600mm dia. on class D bedding	No	Quotation	R	988.53
		02) 450mm dia. on class D bedding	No	Quotation	R	847.31
2.5.3.2		Construct inlet catch pit for each culvert	No	Quotation	R	1 692.99
2.5.3.3		Construct headwall and wing walls for 600mm dia. culvert	No	Quotation	R	1 176.84
2.5.3.4		Construct headwall and wing walls for 450mm dia. culvert	No	Quotation	R	1 176.84
2.5.3.5		Accommodate traffic, erect road signs, adopt safety				
		precautions, etc,	Sum	Quotation	R	6 472.57
2.5.3.6		Final finishing and cleaning up of the Site of the Works	Sum	Quotation	R	11 768.30
2.5.3.7		Construct earth berm as specified on design	m	Quotation	R	100.02
2.6		Stone pitching				
2.6.1		Grouted stone pitching	m2	Quotation	R	211.84

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2.6.2		Retaining walls	m2	Quotation	R	568.41
Subtotal Item 2						
Item No.	Refer	Description of the item	Unit			
				Supply	Install/Erect	
3		INSTALLATION OF EARTH GRID				
3.1		Complete earth grid Supply, Transport to site and Install as per earth grid drawing including all excavations, backfilling and compaction				
3.1.1		10 mm round copper main earth grid	m	Quotation	R	86.13
3.1.2		10 mm round copper for earth tails connected from reinforcement of trfr plinths, slipways and runway to main earth grid	m	Quotation	R	86.13
3.1.3		50 mm x 3 mm flat copper for earth tails connected to the main earth grid from equipment foundations, transformer kerbing reinforcement and fence (to the fence and fence corner gate post CGP)	m	Quotation	R	138.26
3.1.4		80 x 6 mm x 1.2 m long galvanised steel strap bolted to trfr tank and connected to trfr holding down bolts for earthing of transformers. Note: This is to be measured on site once the transformers have been installed	each	Quotation	R	164.87
3.1.5		50 mm x 3 mm flat copper for earth tails for building earthing of panels. This earthing should run on cable rack.	m	Quotation	R	137.79
3.1.6		50 mm x 3 mm flat copper for battery room	m	Quotation	R	137.79
3.2	D-DT-5240 Sheet 11	Sacrificial earth anodes Supply, Transport to site and Install including all excavations, backfilling and compaction				
3.2.1		Sacrificial earth mat anodes	each	Quotation	R	110.74
3.2.2		10 mm round copper from main earth grid to sacrificial earth anode	m	Quotation	R	110.74

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3.3	D-DT-5240	Joints/Bonding Bond all foundation copper to main earth grid of the substation as per earthing standard and foundation drawings.				
3.3.1	D-DT-5240 Sheet 1&2	Main earth grid brazing; 10 mm round to 10 mm round	each	Quotation	R	39.38
3.3.2	D-DT-5240 Sheet 1&2	Main earth grid brazing to earth tails (all foundations, control room, fence, etc.) ; 10 mm round to 50 mm x 3 mm flat	each	Quotation	R	39.38
3.3.3	D-DT-5240 Sheet 1&2	Main earth grid brazing to earth tails (reinforcing of trfr plinths, slipways and runway, sacrificial earths); 10 mm round to 10 mm round	each	Quotation	R	39.38
3.3.4	D-DT-5240 Sheet 1, 2, 5, 6, 7 & 8	Earth tail to foundation / plinth copper brazing; 50 mm x 3 mm flat to 50 mm x 3 mm flat. Note: Copper quantified in the main BOM is for the earth grid only, and not for the earthing of the hold-down bolts. Copper for the holding down bolts to be priced and allowed for with the foundations.	each	Quotation	R	39.38
3.3.5	D-DT-5240 Sheet 1, 2 & 9	50 mm x 3 mm flat copper bolted to corner gate posts and intermediate posts and fence	each	Quotation	R	39.38
3.3.6	D-DT-5240 Sheet 1, 2 & 11	Silbralloy brazing for connecting 10mm round to rail (sacrificial earth)	each	Quotation	R	39.38
3.3.7	D-DT-5240 Sheet 1, 2 & 5	80 x 6 mm x 1.2 m long galvanised steel strap bolted to trfr tank and connected to trfr holding down bolts for earthing of transformers. (2 connections per strap)	each	Quotation	R	39.38
3.4		Testing:				
3.4.1		It is the responsibility of the Contractor to test the earth-grid resistance on completion of the project. Tests to be done by an approved person. The results shall be compared to the design results, as submitted by Eskom's Eng.	each	Quotation	R	15 578.95
Subtotal Item 3						
Item No.	Refer	Description of the item	Unit			
				Supply	Install/Erect	

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4		<u>FACILITIES</u>				
4.1		<u>Control Room</u>				
4.1.1		Build control room:				
4.1.1.1		Pitch roof	m2	Quotation	R	12 789.20
4.1.1.2		Concrete roof	m2	Quotation	R	14 210.23
Item 4 Subtotal						
Item No.	Refer	Description of the item	Unit			
				Supply	Install/Erect	
5A		CIVIL WORK				
5.1		Foundations: Excavate, dispose of waste, supply and pour complete support foundations with holding down bolts and earth connections detailed in the drawings including D-DT-5240:				
		<u>ISOLATORS</u>				
5.1.1	D-DT-5202s1A	ISOLATOR - 132kV 3 & 3.6m PHASE CRS LATTICE SUPPORT FOUNDATION DETAILS (SOIL TYPE 1&2)	each	included	R	11 256.39
5.1.2	D-DT-5202s1B	ISOLATOR - 132kV 3 & 3.6m PHASE CRS LATTICE SUPPORT FOUNDATION DETAILS (SOIL TYPE 3)	each	included	R	10 491.44
5.1.3	D-DT-5203s1A	ISOLATOR - 66kV 2 & 2.4m PHASE CRS LATTICE SUPPORT FOUNDATION DETAILS (SOIL TYPE 1&2)	each	included	R	7 993.02
5.1.4	D-DT-5203s1B	ISOLATOR - 66kV 2 & 2.4m PHASE CRS LATTICE SUPPORT FOUNDATION DETAILS (SOIL TYPE 3)	each	included	R	8 157.80

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5.1.5	D-DT-5204s1A	ISOLATOR - 33kV 1.2m PHASE CRS LATTICE SUPPORT FOUNDATION DETAILS (SOIL TYPE 1 & 2)	each	included	R	7 296.35
5.1.6	D-DT-5204s1B	ISOLATOR - 33kV 1.2m PHASE CRS TUBULAR SUPPORT FOUNDATION DETAILS (SOIL TYPE 1 & 2)	each	included	R	9 414.65
5.1.7	D-DT-5205s1A	ISOLATOR - 22kV 1m PHASE CRS LATTICE SUPPORT FOUNDATION DETAILS (SOIL TYPE 1 & 2)	each	included	R	6 001.83
5.1.8	D-DT-5205s1B	ISOLATOR - 22kV 1m PHASE CRS TUBULAR SUPPORT FOUNDATION DETAILS (SOIL TYPE 1 & 2)	each	included	R	6 237.19
		<u>CIRCUIT BREAKERS</u>				
5.1.9	D-DT-5200s1A	CIRCUIT BREAKER - 132kV TUBULAR SUPPORT FOUNDATION DETAILS - CABLE PIPE (SOIL TYPE 1 & 2)	each	included	R	15 015.88
5.1.10	D-DT-5200s1B	CIRCUIT BREAKER - 132kV TUBULAR SUPPORT FOUNDATION DETAILS - CABLE CUTOUT (SOIL TYPE 1 & 2)	each	included	R	14 467.66
5.1.11	D-DT-5200s1C	CIRCUIT BREAKER - 132kV TUBULAR SUPPORT FOUNDATION DETAILS - SEPARATE (SOIL TYPE 1 & 2) FOUNDATION	each	included	R	14 467.66
5.1.12	D-DT-5200s1D	CIRCUIT BREAKER 132kV TUBULAR SUPPORT FOUNDATION DETAILS - CABLE PIPE (SOIL TYPE 3)	each	included	R	14 467.66
5.1.13	D-DT-5201s1A	CIRCUIT BREAKER - 66kV TUBULAR SUPPORT FOUNDATION DETAILS - CABLE PIPE (SOIL TYPE 1 & 2)	each	included	R	10 221.40
5.1.14	D-DT-5201s1B	CIRCUIT BREAKER - 66kV TUBULAR SUPPORT FOUNDATION DETAILS - CABLE CUTOUT (SOIL TYPE 1 & 2)	each	included	R	10 221.40
5.1.15	D-DT-5201s1C	CIRCUIT BREAKER - 66kV TUBULAR SUPPORT FOUNDATION DETAILS - SEPARATE FOUNDATION (SOIL TYPE 1 & 2)	each	included	R	10 221.40
5.1.16	D-DT-5201s1D	CIRCUIT BREAKER 66kV TUBULAR SUPPORT FOUNDATION DETAILS - CABLE PIPE (SOIL TYPE 3)	each	included	R	10 221.40
5.1.17	D-DT-5216s1A	CIRCUIT BREAKER KIOSK - 11kV LATTICE SUPPORT FOUNDATION DETAILS (SOIL TYPE 1 & 2)	each	included	R	8 657.96
5.1.18	D-DT-5216s1B	CIRCUIT BREAKER KIOSK - 22kV LATTICE SUPPORT FOUNDATION DETAILS (SOIL TYPE 1 & 2)	each	included	R	9 096.38
5.1.19	D-DT-5216s1C	CIRCUIT BREAKER KIOSK - 33kV LATTICE SUPPORT FOUNDATION DETAILS (SOIL TYPE 1 & 2)	each	included	R	9 293.20
		<u>CT , VT AND TERMINAL SUPPORT</u>				

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5.1.20	D-DT-5206s1A	MEDIUM EQUIPMENT LATTICE SUPPORT FOUNDATION DETAILS (SOIL TYPE 1&2)	each	included	R	6 808.56
5.1.21	D-DT-5206s1B	MEDIUM EQUIPMENT LATTICE SUPPORT FOUNDATION DETAILS(SOIL TYPE 3)	each	included	R	6 951.31
5.1.22	D-DT-5206s1C	MEDIUM EQUIPMENT TUBULAR SUPPORT FOUNDATION DETAILS (SOIL TYPE 1&2)	each	included	R	4 394.71
5.1.23	D-DT-5206s1D	MEDIUM EQUIPMENT LATTICE SUPPORT FOUNDATION DETAILS - 1.83m CRS (SOIL TYPE 3)	each	included	R	6 951.31
5.1.24	D-DT-5206s1E	MEDIUM EQUIPMENT LATTICE SUPPORT FOUNDATION DETAILS - 2.5m CRS (SOIL TYPE 3)	each	included	R	6 951.31
5.1.25	D-DT-5206s1F	MEDIUM EQUIPMENT LATTICE SUPPORT FOUNDATION DETAILS - 3m CRS (SOIL TYPE 3)	each	included	R	7 320.41
5.1.26		<u>TRANSFORMERS</u>		included		
5.1.27	D-DT-5231s1	STANDARD TRANSFORMER PLINTH 5 - 20 MVA (NORMAL ENTRANCE) DETAILS	each	included	R	92 092.84
5.1.28	D-DT-5231s2	STANDARD TRANSFORMER PLINTH 5 - 20 MVA (SIDE ENTRANCE) DETAILS	each	included	R	92 092.84
5.1.29	D-DT-5231s1A	TRANSFORMER PLINTH, SLIPWAY, DRAINAGE & CONTAINMENT AREA DETAILS FOR	each	included	R	86 850.09
5.1.30	D-DT-5231s1B	TRANSFORMER PLINTH, SLIPWAY, DRAINAGE & CONTAINMENT AREA DETAILS FOR	each	included	R	86 850.09
5.1.31	D-DT-5231s1C	TRANSFORMER PLINTH, SLIPWAY CABLE RACK MANUFACTURING DETAILS AND	each	included	R	74 964.09
5.1.32	D-DT-5232s1	STANDARD TRANSFORMER PLINTH 20 - 40MVA (NORMAL ENTRANCE) DETAILS	each	included	R	138 748.29
5.1.33	D-DT-5232s2	STANDARD TRANSFORMER PLINTH 20 - 40MVA (SIDE ENTRANCE) DETAILS	each	included	R	138 748.29
5.1.34	D-DT-5232s1A	TWO WINDING TRANSFORMER PLINTH, SLIPWAY, DRAINAGE & SELF CONTAINED OIL CONTAINMENT AREA OPTION 1 - FRONT ENTRY (MAX. 5MVA)	each	included	R	98 796.07
5.1.35	D-DT-5232s1B	TWO WINDING TRANSFORMER PLINTH, SLIPWAY, DRAINAGE & SELF CONTAINED OIL CONTAINMENT AREA OPTION 2 - LEFT ENTRY (MAX. 5MVA)	each	included	R	98 796.07
5.1.36	D-DT-5232s1C	TWO WINDING TRANSFORMER PLINTH, SLIPWAY, DRAINAGE & SELF CONTAINED OIL CONTAINMENT AREA OPTION 3 - RIGHT	each	included	R	98 796.07

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		ENTRY (MAX. 5MVA)				
5.1.37	D-DT-5232s1D	TWO WINDING TRANSFORMER PLINTH, SLIPWAY, DRAINAGE & SELF CONTAINED OIL CONTAINMENT AREA OPTION 4 - REAR ENTRY (MAX. 5MVA)	each	included	R	106 244.24
5.1.38	D-DT-5232s2A	TWO WINDING TRANSFORMER PLINTH, SLIPWAY, DRAINAGE & SELF CONTAINED OIL CONTAINMENT AREA OPTION 1 - FRONT ENTRY (10-20MVA)	each	included	R	126 122.31
5.1.39	D-DT-5232s2B	TWO WINDING TRANSFORMER PLINTH, SLIPWAY, DRAINAGE & SELF CONTAINED OIL CONTAINMENT AREA OPTION 2 - LEFT ENTRY (10-20MVA)	each	included	R	128 755.12
5.1.40	D-DT-5232s2C	TWO WINDING TRANSFORMER PLINTH, SLIPWAY, DRAINAGE & SELF CONTAINED OIL CONTAINMENT AREA OPTION 3 - RIGHT ENTRY (10-20MVA)	each	included	R	128 755.12
5.1.41	D-DT-5232s2D	TWO WINDING TRANSFORMER PLINTH, SLIPWAY, DRAINAGE & SELF CONTAINED OIL CONTAINMENT AREA OPTION 4 - REAR ENTRY (10-20MVA)	each	included	R	133 438.51
5.1.42	D-DT-5232s3A	TWO WINDING TRANSFORMER PLINTH, SLIPWAY, DRAINAGE & OIL CATCHMENT AREA CONNECTED TO OIL DAM OPTION 1 - FRONT ENTRY (20-40MVA)	each	included	R	142 264.73
5.1.43	D-DT-5232s3B	TWO WINDING TRANSFORMER PLINTH, SLIPWAY, DRAINAGE & OIL CATCHMENT AREA CONNECTED TO OIL DAM OPTION 2 - LEFT ENTRY (20-40MVA)	each	included	R	193 404.98
5.1.44	D-DT-5232s3C	TWO WINDING TRANSFORMER PLINTH, SLIPWAY, DRAINAGE & OIL CATCHMENT AREA CONNECTED TO OIL DAM OPTION 3 - RIGHT ENTRY (20-40MVA)	each	included	R	193 404.98
5.1.45	D-DT-5232s3D	TWO WINDING TRANSFORMER PLINTH, SLIPWAY, DRAINAGE & OIL CATCHMENT AREA CONNECTED TO OIL DAM OPTION 4 - REAR ENTRY (20-40MVA)	each	included	R	193 404.98
5.1.46	D-DT-5232s4A	TWO WINDING TRANSFORMER PLINTH, SLIPWAY, DRAINAGE & OIL CATCHMENT AREA CONNECTED TO OIL DAM OPTION 1 - FRONT ENTRY (40-80MVA)	each	included	R	209 827.66
5.1.47	D-DT-5232s4B	TWO WINDING TRANSFORMER PLINTH, SLIPWAY, DRAINAGE & OIL CATCHMENT AREA CONNECTED TO OIL DAM OPTION 2 - LEFT ENTRY (40-80MVA)	each	included	R	209 825.31
5.1.48	D-DT-5232s4C	TWO WINDING TRANSFORMER PLINTH, SLIPWAY, DRAINAGE & OIL CATCHMENT AREA CONNECTED TO OIL DAM OPTION 3 - RIGHT ENTRY (40-80MVA)	each	included	R	209 827.66

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5.1.49	D-DT-5232s4D	TWO WINDING TRANSFORMER PLINTH, SLIPWAY, DRAINAGE & OIL CATCHMENT AREA CONNECTED TO OIL DAM OPTION 4 - REAR ENTRY (40-80MVA)	each	included	R	209 827.66
5.1.50	D-DT-5232s5A	AUTO TRANSFORMER PLINTH, SLIPWAY, DRAINAGE & OIL CATCHMENT AREA CONNECTED TO OIL DAM. OPTION 1 - FRONT ENTRY (MAX 40-80MVA)	each	included	R	142 707.42
5.1.51	D-DT-5232s5B	AUTO TRANSFORMER PLINTH, SLIPWAY, DRAINAGE & OIL CATCHMENT AREA CONNECTED TO OIL DAM. OPTION 2 - LEFT ENTRY (MAX 40-80MVA)	each	included	R	145 173.60
5.1.52	D-DT-5232s5C	AUTO TRANSFORMER PLINTH, SLIPWAY, DRAINAGE & OIL CATCHMENT AREA CONNECTED TO OIL DAM. OPTION 3 - RIGHT ENTRY (MAX 40-80MVA)	each	included	R	145 173.60
5.1.53	D-DT-5232s5D	AUTO TRANSFORMER PLINTH, SLIPWAY, DRAINAGE & OIL CATCHMENT AREA CONNECTED TO OIL DAM. OPTION 4 - REAR ENTRY (MAX 40-80MVA)	each	included	R	139 808.16
5.1.54	D-DT-5232s6A	AUTO TRANSFORMER PLINTH, SLIPWAY, DRAINAGE & OIL CATCHMENT AREA CONNECTED TO OIL DAM. (WEG) OPTION 1 - FRONT ENTRY (MAX 80-160MVA)	each	included	R	160 659.39
5.1.55	D-DT-5232s6B	AUTO TRANSFORMER PLINTH, SLIPWAY, DRAINAGE & OIL CATCHMENT AREA CONNECTED TO OIL DAM. (WEG) OPTION 2 - LEFT ENTRY (MAX 80-160MVA)	each	included	R	158 417.52
5.1.56	D-DT-5232s6C	AUTO TRANSFORMER PLINTH, SLIPWAY, DRAINAGE & OIL CATCHMENT AREA CONNECTED TO OIL DAM. (WEG) OPTION 3 - RIGHT ENTRY (MAX 80-160MVA)	each	included	R	163 512.06
5.1.57	D-DT-5232s6D	AUTO TRANSFORMER PLINTH, SLIPWAY, DRAINAGE & OIL CATCHMENT AREA CONNECTED TO OIL DAM. (WEG) OPTION 4 - REAR ENTRY (MAX 80-160MVA)	each	included	R	158 417.52
5.1.58	D-DT-5236	STANDARD TRANSFORMER PLINTH 80MVA (N/ENT)	each	included	R	141 912.11
		<u>NEC-6.6/22/33kV FND</u>				
5.1.59	D-DT-5207s1A	NECRT - AUX. TRFR LATTICE SUPPORT FOUNDATION DETAILS (SOIL TYPE 1 & 2)	each	included	R	10 301.96
5.1.60	D-DT-5207s1B	NECRT - AUX TRFR LATTICE SUPPORT FOUNDATION DETAILS (SOIL TYPE 3)	each	included	R	10 839.21
		<u>ROAD CROSSING</u>				

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5.1.61	D-DT-5221s1	6.6-44kV POST INSULATOR 1200 PHASE CENTRES, HIGH LEVEL LIPPED CHANNEL SUPPORT FOUNDATION	each	included	R	10 164.39
5.1.62	D-DT-5209S1A	TUBULAR BUSBAR ROAD CROSSING SINGLE TUBULAR SUPPORT FOUNDATION DETAILS - 1.2M PHASE CRS (SOIL TYPE 1 & 2)	each	included	R	9 220.97
5.1.63	D-DT-5209S1B	TUBULAR BUSBAR ROAD CROSSING SINGLE TUBULAR SUPPORT FOUNDATION DETAILS - 1.85M PHASE CRS (SOIL TYPE 1 & 2)	each	included	R	9 220.97
		<u>TUBULAR BUSBAR</u>				
5.1.64	D-DT-5208S1A	TUBULAR BUSBAR - 66kV 2.5M PHASE CRS SINGLE TUBULAR SUPPORT FOUNDATION DETAILS (SOIL TYPE 1 & 2)	each	included	R	13 208.67
5.1.65	D-Dt-5225	TUBULAR BUSBAR - 132/66kV TUBULAR BUSBAR TWIN SUPPORT FOUNDATION DETAILS (SOIL TYPE 1 & 2)	each	included	R	14 304.58
		<u>BUSBAR BOX TYPE</u>				
5.1.66	D-DT-5223S1A	BOX STRUCTURE I-BEAM SUPPORT FOUNDATION DETAILS (SOIL TYPE 1 & 2)	each	included	R	9 279.91
		<u>BEAMS AND COLUMN</u>				
5.1.67	D-DT-5252S1A	COLUMN 132kV LATTICE SUPPORT FOUNDATION DETAILS (SOIL TYPE 1 & 2)	each	included	R	20 695.60
5.1.68	D-DT-5252S1B	COLUMN ROCK PINNED 132kV LATTICE SUPPORT FOUNDATION DETAILS (SOIL TYPE 1 & 2)	each	included	R	22 796.34
5.1.69	D-DT-5265S1A	COLUMN - 88kV LATTICE SUPPORT FOUNDATION DETAILS (SOIL TYPE 1 & 2)	each	included	R	19 945.68
5.1.70	D-DT-5260S1A	COLUMN - 66kV LATTICE SUPPORT FOUNDATION DETAILS (SOIL TYPE 1 & 2)	each	included	R	17 737.18
5.1.71	D-DT-5257S1A	COLUMN 6.6kV - 33kV LATTICE SUPPORT FOUNDATION DETAILS (SOIL TYPE 1 & 2)	each	included	R	16 931.84
		<u>CABLE TERMINATION</u>				
5.1.72	D-DT-5271S1	HV CABLE TERMINATION END SUPPORT FOUNDATION	each	included	R	10 837.61
		<u>FIRE BARRIER 5-40MVA AND 40-80MVA</u>				

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5.1.73	D-DT-5218S1A	STEEL FIRE BARRIER LATTICE SUPPORT FOUNDATION DETAILS	each	included	R	13 416.26
		<u>LIGHTING/LIGHTING MAST 21m</u>				
5.1.74	D-DT-5217S1C	LIGHTING-LIGHTNING MAST - 21m TUBULAR SUPPORT FOUNDATION DETAILS (SOIL TYPE 1 & 2)	each	included	R	18 370.38
5.1.75	D-DT-5217S1B	LIGHTING-LIGHTNING MAST - 14m TUBULAR SUPPORT FOUNDATION DETAILS (SOIL TYPE 1 & 2)	each	included	R	12 415.55
5.1.76	D-DT-5217S1A	LIGHTING-LIGHTNING MAST - 8m TUBULAR SUPPORT FOUNDATION DETAILS	each	included	R	8 943.96
5.1.77	D-DT-5273S1	ELECTRICAL EQUIPMENT LABELS POST SUPPORT AND FOUNDATION	each	included	R	8 922.90
5.1.78		<u>Kerbing</u> Supply, transport to site and install				
5.1.79		Concrete kerbing	m	Quotation	R	100.02
5.1.80		<u>Yard Stone</u>				
5.1.81	SCSASABK2 Rev. 0	Supply, transport to site and spread a 150mm thick layer of 25mm-38mm stones.	m ²	Quotation	R	211.84
5A Subtotal						
Item No.	Refer	Description of the item	Unit			
				Supply	Install/Erect	
5B	2-NT/769Sheet 3	CIVIL WORK cont.				
5.2	2-D-WT/749	<u>Cable Trenches</u> Excavate in all material, supply, transport to site, construct and dispose of burden:				
5.2.1		Complete 0.6m wide cable trenches	m	Quotation	R	236.22

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5.2.2		Complete 0.9m wide cable trenches	m	Quotation	R	270.68
5.2.3		Complete 1.2m wide cable trenches	m	Quotation	R	332.20
5.2.4	2-WT/1362	Cable trench crossing under the road	m	Quotation	R	399.86
5.2.5		Trench covers	Sum	Quotation		Quotation
5.3	0.54/390 sheet 38	Concrete Runway Excavate in all material, supply, transport to site, construct and dispose of burden:				
5.3.1		4500mm x 300mm thick reinforced concrete runway as detailed on drawing (excludes Transformer Slip Ways) Reinforce concrete at cable trench crossings. Connect reinforcement to earth grid as per D-DT-5240s10	m	Quotation	R	2 460.64
5.4	0.54/390 sheet 38	Concrete Slipway Excavate in all material, supply, transport to site, construct and dispose of burden:				
5.4.1		4500mm x 3000mm x 300mm thick reinforced concrete slipways. Reinforcing to be mesh according to table A, D-DT-5232. Connect reinforcement to earth grid as per D-DT-5240s10.	each	Quotation	R	4 306.12
5.4.2		7500mm x 3000mm x 300mm thick reinforced concrete slipways. Reinforcing to be mesh according to table A, D-DT-5232. Connect reinforcement to earth grid as per D-DT-5240s10.	each	Quotation	R	4 753.97
5.4.3		6700mm x 3438 x 300mm thick reinforced concrete slipaway	each	Quotation	R	4 306.12
5.4.4		6800mm x 4500mm x 300mm thick reinforced concrete slipways. Reinforcing to be mesh according to table A, D-DT-5232. Connect reinforcement to earth grid as per D-DT-5240s10.	each	Quotation	R	4 672.76
5.4.5	0.54/390 Sheet 37	Cable trench concrete ramp to cross 1.2m wide cable trench.	each	Quotation	R	2 353.65
5.4.6	0.54/390 Sheet 67	Concrete Ramp outside gate	each	Quotation	R	4 306.12
5B Subtotal						

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Item No.	Refer	Description of the item	Unit		
				Supply	Install/Erect
5C		CIVIL WORK cont.			
5.5		<u>300mm Concrete Pipes</u> Excavate in all material, supply, transport to site, construct, backfill and compact. Depth varying from 0.6m to 1.5m:			
5.5.1	D-DT-5233	Diameter 300mm pipes from manhole outside each transformer plinth, leading to the oil holding dam	m	Quotation	R 155.39
5.6		<u>Oil Holding Dam</u> Excavate in all material, dispose of waste, supply, transport to site and construct, backfill and compact if necessary:			
5.6.1	D-DT-5233	An oil holding dam complete with lid	item	Quotation	R 23 769.83
5.6.2	D-DT-5241	An oil trap/filter in series with the oil dam	item	Quotation	R 8 282.54
5.6.3	D-DT-5234	Concrete build 32 000 litre oil dam with electric pump and outlet sump	item	Quotation	R 24 890.26
5.6.4	D-DT-5234	Concrete build 42 000 litre oil dam with electric pump and outlet sump	item	Quotation	R 39 888.66
5.6.5	D-DT-5234	Concrete build 52 000 litre oil dam with electric pump and outlet sump	item	Quotation	R 39 888.66
5.6.6	D-DT-5234	brick build 42 000 litre oil dam with electric pump and outlet sump	item	Quotation	R 31 249.24
5.6.7	D-DT-5234	Brickbuild 52 000 litre oil dam with electric pump and outlet sump	item	Quotation	R 31 249.24
5.7		<u>Manholes</u> Excavate in all material, dispose of waste, supply, transport to site and construct:			
5.7.1	0.54/390 Sheet 1	Manholes	each	included	R 10 678.18

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5C Subtotal					
Item No.	Refer	Description of the item	Unit	Supply	Install/Erect
6	SANS 1200A	ERECTION OF STEELWORK			
6.1		<u>Equipment Support:</u> Supply, transport to site and Install the following equipment.			
		ISOLATORS			
6.1.1	D-DT-5202S2A	ISOLATOR STD - 132kV MANUAL LATTICE SUPPORT STEELWORK MANUFACTURING DETAILS AND ASSEMBLY - 3m PHASE CRS	each	Quotation	R 2 938.88
6.1.2	D-DT-5203S2A	ISOLATOR STD - 66kV MANUAL LATTICE SUPPORT STEELWORK MANUFACTURING DETAILS AND ASSEMBLY - 2m PHASE CRS	each	Quotation	R 2 507.25
6.1.3	D-DT-5204S2A	ISOLATOR STD - 33kV MANUAL LATTICE SUPPORT STEELWORK MANUFACTURING DETAILS AND ASSEMBLY - 1.2m PHASE CRS	each	Quotation	R 1 298.40
6.1.4	D-DT-5205S2A	ISOLATOR STD - 22kV MANUAL LATTICE SUPPORT STEELWORK MANUFACTURING DETAILS AND ASSEMBLY - 1m PHASE CRS	each	Quotation	R 1 230.32
6.1.5	D-DT-5219s1	SURGE ARRESTOR BRACKET 11/22kV MOUNTED ON ISOLATOR SUPPORT	each	Quotation	R 722.82
6.1.6	D-DT-5219s2	SURGE ARRESTOR BRACKET 33kV MOUNTED ON ISOLATOR SUPPORT	each	Quotation	R 757.27
6.1.7	D-DT-5219s3	66kV SURGE ARRESTOR BRACKET MOUNTED ON ISOLATOR SUPPORT	each	Quotation	R 923.96
6.1.8	D-DT-5219s4	132kV SURGE ARRESTOR BRACKET MOUNTED ON ISOLATOR	each	Quotation	R 1 031.38
		CIRCUIT BREAKER			
6.1.9	D-DT-5200S2A	CIRCUIT BREAKER - 132kV TUBULAR SUPPORT STEELWORK MANUFACTURING DETAILS	each	Quotation	R 2 269.94

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6.1.10	D-DT-5201S2A	CIRCUIT BREAKER - 66kV TUBULAR SUPPORT STEELWORK MANUFACTURING DETAILS	each	Quotation	R	2 269.94
6.1.11	D-DT-6254	SUPPORT BKR KIOSK 11/22/33kV	each	Quotation	R	1 943.92
		CT ,VT AND TERMINAL SUPPORT				
6.1.12	D-DT-5206S2A	MEDIUM EQUIPMENT - 1.5m LATTICE SUPPORT STEELWORK MANUFACTURING DETAILS AND ASSEMBLY	each	Quotation	R	744.34
6.1.13	D-DT-5206S2B	MEDIUM EQUIPMENT - 2m LATTICE SUPPORT STEELWORK MANUFACTURING DETAILS AND ASSEMBLY	each	Quotation	R	744.34
6.1.14	D-DT-5206S2C	MEDIUM EQUIPMENT - 2.5m LATTICE SUPPORT STEELWORK MANUFACTURING DETAILS AND ASSEMBLY	each	Quotation	R	1 045.78
6.1.15	D-DT-5206S2D	MEDIUM EQUIPMENT - 3m LATTICE SUPPORT STEELWORK MANUFACTURING DETAILS AND ASSEMBLY	each	Quotation	R	1 045.78
6.1.16	D-DT-5206S2E	MEDIUM EQUIPMENT - 3.5m LATTICE SUPPORT STEELWORK MANUFACTURING DETAILS AND ASSEMBLY	each	Quotation	R	1 353.36
6.1.17	D-DT-5206S2F	MEDIUM EQUIPMENT - 4m LATTICE SUPPORT STEELWORK MANUFACTURING DETAILS AND ASSEMBLY	each	Quotation	R	1 353.36
6.1.18	D-DT-5206S2G	MEDIUM EQUIPMENT - 6m LATTICE SUPPORT STEELWORK MANUFACTURING DETAILS AND ASSEMBLY	each	Quotation	R	1 353.36
6.1.19	D-DT-5206S2H	MEDIUM EQUIPMENT - CAP M1 LATTICE SUPPORT STEELWORK MANUFACTURING DETAILS AND ASSEMBLY	each	Quotation	R	449.07
6.1.20	D-DT-5206S2I	MEDIUM EQUIPMENT - CAP M2 LATTICE SUPPORT STEELWORK MANUFACTURING DETAILS AND ASSEMBLY	each	Quotation	R	449.07
6.1.21	D-DT-5206S2J	MEDIUM EQUIPMENT - CAP M3 LATTICE SUPPORT STEELWORK MANUFACTURING DETAILS AND ASSEMBLY	each	Quotation	R	449.07
6.1.22	D-DT-5215S1	33/22/11kV V.T., C.T. & P.I. SUPPORT CAP	each	Quotation	R	227.61
6.1.23	D-DT-5215S2	33/22/11kV V.T. & C.T. SUPPORT CAP	each	Quotation	R	227.61
		ROAD CROSSING				
6.1.24	D-DT-5221S2	6.6-44kV POST INSULATOR 1200 PHASE CENTRES, HIGH LEVEL LIPPED CHANNEL	each	Quotation	R	891.36

The prequalification of a panel of contractors for the construction and dismantling of MV and HV distribution substations, traction stations, switching stations and bays for voltages ranging from 1.1kV up to and including 132kV within LimLanga Cluster-Limpopo, on an ``as and when`` required basis

6.1.25	D-DT-5209S2A	TUBULAR BUSBAR ROAD CROSSING SINGLE TUBULAR SUPPORT STEELWORK MANUFACTURING DETAILS AND ASSEMBLY - 1.2M PHASE CRS	each	Quotation	R	1 359.51
6.1.26	D-DT-5209S2B	TUBULAR BUSBAR ROAD CROSSING SINGLE TUBULAR SUPPORT STEELWORK MANUFACTURING DETAILS AND ASSEMBLY - 1.85M PHASE CRS	each	Quotation	R	1 360.12
		BUSBAR (TUBULAR)				
6.1.27	D-DT-5208S1A	TUBULAR BUSBAR - 66kV SINGLE TUBULAR SUPPORT STEELWORK MANUFACTURING DETAILS AND ASSEMBLY - 2.5M PHASE CRS	each	Quotation	R	2 895.87
6.1.28	D-DT-5225S2A	TUBULAR BUSBAR - 132kV TWIN TUBULAR SUPPORT STEELWORK MANUFACTURING DETAILS AND ASSEMBLY - 3M CRS	each	Quotation	R	1 485.62
6.1.29	D-DT-5220S2	132/66kV BUSBAR TUBULAR SUPPORT DETAILS (ONLY TO BE USED FOR THE EXTENSION OF SINGLE TUBULAR BUSBAR SUPPORTS)	each	Quotation	R	1 360.12
6.1.30	D-DT-5226S2C	TUBULAR BUSBAR - 33kV SINGLE TUBULAR SUPPORT STEELWORK MANUFACTURING DETAILS AND ASSEMBLY - 1.2M PHASE CRS	each	Quotation	R	1 360.12
6.1.31	D-DT-5226S2B	TUBULAR BUSBAR - 22kV SINGLE TUBULAR SUPPORT STEELWORK MANUFACTURING DETAILS AND ASSEMBLY - 1.5M PHASE CRS	each	Quotation	R	1 045.78
6.1.32	D-DT-5226S2A	TUBULAR BUSBAR - 11kV SINGLE TUBULAR SUPPORT STEELWORK MANUFACTURING DETAILS AND ASSEMBLY - 1.5M PHASE CRS	each	Quotation	R	1 045.78
		BUSBAR (BOX TYPE)				
6.1.33	D-DT-5223S2	MV BOX STRUCTURE C1 COLUMN DETAIL (LIGHT) STANDARD STEELWORK	each	Quotation	R	1 691.70
6.1.34	D-DT-5223S3	MV BOX STRUCTURE C2 COLUMN DETAIL (HEAVY) STANDARD STEELWORK	each	Quotation	R	1 753.22
6.1.35	D-DT-5223S4	MV BOX STRUCTURE BEAM DETAILS STANDARD STEELWORK 22/33kV BEAM MK XB1	each	Quotation	R	1 562.01
6.1.36	D-DT-5223S4	MV BOX STRUCTURE BEAM DETAILS STANDARD STEELWORK 22/33kV BEAM MK XB2	each	Quotation	R	1 569.41

The prequalification of a panel of contractors for the construction and dismantling of MV and HV distribution substations, traction stations, switching stations and bays for voltages ranging from 1.1kV up to and including 132kV within LimLanga Cluster-Limpopo, on an ``as and when`` required basis

6.1.37	D-DT-5223S4	MV BOX STRUCTURE BEAM DETAILS STANDARD STEELWORK 22/33kV BEAM MK XB3	each	Quotation	R	1 691.70
6.1.38	D-DT-5223S4	MV BOX STRUCTURE BEAM DETAILS STANDARD STEELWORK 22/33kV CLEAT MK CLC	each	Quotation	R	1 060.85
6.1.39	D-DT-5223S5	MV BOX STRUCTURE BEAM DETAILS STANDARD STEELWORK 22/33kV BEAM MK LC1	each	Quotation	R	1 020.34
6.1.40	D-DT-5223S5	MV BOX STRUCTURE BEAM DETAILS STANDARD STEELWORK 22/33kV BEAM MK LC2	each	Quotation	R	977.02
6.1.41	D-DT-5223S5	MV BOX STRUCTURE BEAM DETAILS STANDARD STEELWORK 22/33kV BEAM MK CB1&CLA	each	Quotation	R	1 397.34
6.1.42	D-DT-5223S5	MV BOX STRUCTURE BEAM DETAILS STANDARD STEELWORK 22/33kV CLEAT BT/B MK	each	Quotation	R	765.82
6.1.43	D-DT-5223S6	MV BOX STRUCTURE BEAM DETAILS STANDARD STEELWORK - BASIC 1 X BULL	each	Quotation	R	4 555.26
6.1.44	D-DT-5223S6	MV BOX STRUCTURE BEAM DETAILS STANDARD STEELWORK - BASIC 2 X BULL	each	Quotation	R	5 108.92
6.1.45	D-DT-5223S6	MV BOX STRUCTURE BEAM DETAILS STANDARD STEELWORK - EXTENSION 1 X BULL	each	Quotation	R	2 623.65
6.1.46	D-DT-5223S6	MV BOX STRUCTURE BEAM DETAILS STANDARD STEELWORK - EXTENSION 2 X BULL	each	Quotation	R	3 060.44
		BEAMS AND COLUMN				
6.1.47	D-DT-5252S1C	COLUMN - 132/C LATTICE STEELWORK MANUFACTURING DETAILS AND ASSEMBLY	each	Quotation	R	6 539.17
6.1.48	D-DT-5252S2A	COLUMN - 132/C LATTICE STEELWORK MANUFACTURING DETAILS AND ASSEMBLY	each	Quotation	R	6 539.17
6.1.49	D-DT-5252S2B	BEAM - 132/50/1 LATTICE STEEL STEELWORK MANUFACTURING DETAILS & ASSEMBLY	each	Quotation	R	6 911.95
6.1.50	D-DT-5252S2C	BEAM - 132/50/2 LATTICE STEEL STEELWORK MANUFACTURING DETAILS & ASSEMBLY	each	Quotation	R	6 911.95
6.1.51	D-DT-5252S2D	BEAM - 132/40/1 LATTICE STEEL STEELWORK MANUFACTURING DETAILS & ASSEMBLY	each	Quotation	R	6 911.95

The prequalification of a panel of contractors for the construction and dismantling of MV and HV distribution substations, traction stations, switching stations and bays for voltages ranging from 1.1kV up to and including 132kV within LimLanga Cluster-Limpopo, on an ``as and when`` required basis

6.1.52	D-DT-5252S2E	EARTHWIRE SUPPORT - 132/EW LATTICE STEEL STEELWORK MANUFACTURING DETAILS AND ASSEMBLY	each	Quotation	R	1 660.33
6.1.53	D-DT-5252S2F	COLUMN - 132kV ANTI-CLIMBING DEVICE STEELWORK MANUFACTURING DETAILS AND ASSEMBLY	each	Quotation	R	449.07
6.1.54	D-DT-5265S2B	BEAM - 88kV - B822 LATTICE STEEL STEELWORK MANUFACTURING DETAILS AND ASSEMBLY	each	Quotation	R	5 840.96
6.1.55	D-DT-5265S2C	BEAM - 88kV - B831 LATTICE STEEL STEELWORK MANUFACTURING DETAILS AND ASSEMBLY	each	Quotation	R	5 840.96
6.1.56	D-DT-5265S2D	BEAM - 88kV - B840 LATTICE STEEL STEELWORK MANUFACTURING DETAILS AND ASSEMBLY	each	Quotation	R	5 840.96
6.1.57	D-DT-5265S2E	BEAM - 88kV - B841 LATTICE STEEL STEELWORK MANUFACTURING DETAILS AND ASSEMBLY	each	Quotation	R	5 840.96
6.1.58	D-DT-5265S2F	BEAM - 88kV - B842 LATTICE STEEL STEELWORK MANUFACTURING DETAILS AND ASSEMBLY	each	Quotation	R	5 840.96
6.1.59	D-DT-5265S2G	EARTHWIRE SUPPORT - 88/EW LATTICE STEEL STEELWORK MANUFACTURING DETAILS AND ASSEMBLY	each	Quotation	R	1 648.02
6.1.60	D-DT-5265S2H	COLUMN - 88kV ANTI - CLIMBING DEVICE STEELWORK MANUFACTURING DETAILS AND ASSEMBLY	each	Quotation	R	1 198.95
6.1.61	D-DT-5260S2A	COLUMN - 66/27/1 LATTICE STEEL STEELWORK MANUFACTURING DETAILS & ASSEMBLY	each	Quotation	R	5 391.90
6.1.62	D-DT-5260S2B1	BEAM - 66/50/1 LATTICE STEEL STEELWORK MANUFACTURING DETAILS AND ASSEMBLY	each	Quotation	R	5 167.35
6.1.63	D-DT-5260S2B2	BEAM - 66/50/1 LATTICE STEEL STEELWORK MANUFACTURING DETAILS	each	Quotation	R	5 167.35
6.1.64	D-DT-5260S2C	BEAM - 66/32/1 LATTICE STEEL STEELWORK MANUFACTURING DETAILS AND ASSEMBLY	each	Quotation	R	5 167.35
6.1.65	D-DT-5260S2D	BEAM - 66/25/1 LATTICE STEEL STEELWORK MANUFACTURING DETAILS AND ASSEMBLY	each	Quotation	R	5 167.35
6.1.66	D-DT-5260S2E	EARTHWIRE SUPPORT - 66/EW6 LATTICE STEEL STEELWORK MANUFACTURING DETAILS AND ASSEMBLY	each	Quotation	R	1 580.35
6.1.67	D-DT-5260S2F	66kV COLUMN ANTI - CLIMBING DEVICE STEELWORK MANUFACTURING DETAILS AND ASSEMBLY	each	Quotation	R	449.07
6.1.68	D-DT-5257S2A	COLUMN - 6.6 - 33kV C1 LATTICE STEEL STEELWORK MANUFACTURING DETAILS AND ASSEMBLY	each	Quotation	R	3 816.46

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6.1.69	D-DT-5257S2B	COLUMN - 6.6 - 33kV C2 LATTICE STEEL STEELWORK MANUFACTURING DETAILS AND ASSEMBLY	each	Quotation	R	3 816.46
6.1.70	D-DT-5257S2C	COLUMN - 6.6 - 33kV C3 LATTICE STEEL STEELWORK MANUFACTURING DETAILS AND ASSEMBLY	each	Quotation	R	3 816.46
6.1.71	D-DT-5257S2D	COLUMN - 6.6 - 33kV C4 LATTICE STEEL STEELWORK MANUFACTURING DETAILS AND ASSEMBLY	each	Quotation	R	3 816.46
6.1.72	D-DT-5257S2E	BEAM - 6.6 - 33kV B1 LATTICE STEEL STEELWORK MANUFACTURING DETAILS AND ASSEMBLY	each	Quotation	R	3 634.98
6.1.73	D-DT-5257S2F	BEAM - 6.6 - 33kV B2 LATTICE STEEL STEELWORK MANUFACTURING DETAILS AND ASSEMBLY	each	Quotation	R	3 634.98
6.1.74	D-DT-5257S2G	BEAM - 6.6 - 33kV B3 LATTICE STEEL STEELWORK MANUFACTURING DETAILS AND ASSEMBLY	each	Quotation	R	3 634.98
6.1.75	D-DT-5257S2H	BEAM - 6.6 - 33kV B4 LATTICE STEEL STEELWORK MANUFACTURING DETAILS AND ASSEMBLY	each	Quotation	R	3 634.98
6.1.76	D-DT-5257S2I	BEAM - 6.6 - 33kV B5 LATTICE STEEL STEELWORK MANUFACTURING DETAILS AND ASSEMBLY	each	Quotation	R	3 634.98
6.1.77	D-DT-5257S2J	BEAM - 6.6 - 33kV B6 LATTICE STEEL STEELWORK MANUFACTURING DETAILS AND ASSEMBLY	each	Quotation	R	3 634.98
6.1.78	D-DT-5257S2K	BEAM - 6.6 - 33kV B7 LATTICE STEEL STEELWORK MANUFACTURING DETAILS AND ASSEMBLY	each	Quotation	R	3 634.98
6.1.79	D-DT-5257S2L	BEAM - 6.6 - 33kV B8 LATTICE STEEL STEELWORK MANUFACTURING DETAILS AND ASSEMBLY	each	Quotation	R	3 634.98
6.1.80	D-DT-5257S2M	BEAM - 6.6 - 33kV B9 LATTICE STEEL STEELWORK MANUFACTURING DETAILS AND ASSEMBLY	each	Quotation	R	3 634.98
6.1.81	D-DT-5257S2N	BEAM - 6.6 - 33kV B10 LATTICE STEEL STEELWORK MANUFACTURING DETAILS AND ASSEMBLY	each	Quotation	R	3 634.98
6.1.82	D-DT-5257S2O	BEAM - 6.6 - 33kV B11 LATTICE STEEL STEELWORK MANUFACTURING DETAILS AND ASSEMBLY	each	Quotation	R	3 542.71
6.1.83	D-DT-5257S2P	EARTHWIRE SUPPORT E1 - 6.6 - 33kV LATTICE STEEL STEELWORK MANUFACTURING DETAILS AND ASSEMBLY	each	Quotation	R	1 494.24
6.1.84	D-DT-5257S2Q	EARTHWIRE SUPPORT E2 - 6.6 - 33kV LATTICE STEEL STEELWORK MANUFACTURING DETAILS AND ASSEMBLY	each	Quotation	R	1 574.82
6.1.85	D-DT-5257S2R	EARTHWIRE SUPPORT E3 - 6.6/44/ LATTICE STEEL STEELWORK MANUFACTURING DETAILS AND ASSEMBLY	each	Quotation	R	1 660.33

The prequalification of a panel of contractors for the construction and dismantling of MV and HV distribution substations, traction stations, switching stations and bays for voltages ranging from 1.1kV up to and including 132kV within LimLanga Cluster-Limpopo, on an ``as and when`` required basis

6.1.86	D-DT-5257S2S	COLUMN - 6.6 - 33kV ANTI - CLIMBING DEVICE STEELWORK MANUFACTURING DETAILS AND ASSEMBLY	each	Quotation	R	449.07
		LIGHTING/LIGHTING MAST				
6.1.87	D-DT-5217S2A	LIGHTING-LIGHTNING MAST - 8m TUBULAR SUPPORT STEELWORK MANUFACTURING DETAILS AND ASSEMBLY	each	Quotation	R	3 636.84
6.1.88	D-DT-5217S2B	LIGHTING-LIGHTNING MAST - 14m TUBULAR SUPPORT STEELWORK MANUFACTURING DETAILS AND ASSEMBLY	each	Quotation	R	6 135.62
6.1.89	D-DT-5217S2C	LIGHTING-LIGHTNING MAST - 21m TUBULAR SUPPORT STEELWORK MANUFACTURING DETAILS AND ASSEMBLY	each	Quotation	R	8 335.43
		STEEL FIRE BARRIER				
6.1.90	D-DT-5218S2A	STEEL FIRE BARRIER - 6m LATTICE SUPPORT & IRB SHEETING STEELWORK MANUFACTURING DETAILS AND ASSEMBLY 5MVA - 40MVA	each	Quotation	R	4 306.12
6.1.91	D-DT-5218S2B	STEEL FIRE BARRIER - 6.5m LATTICE SUPPORT & IRB SHEETING STEELWORK MANUFACTURING DETAILS AND ASSEMBLY 40MVA - 80MVA	each	Quotation	R	4 613.70
6.1.91	2-WT/918 S 2&3	Knife links support	each	Quotation	R	1 796.26
6.1.92	D-DT-5271S2	HV CABLE TERMINATION END SUPPORT STRUCTURE DETAILS	each	Quotation	R	2 231.20
6.1.93	D-DT-5272S2	HV XLPE CABLE END SUPPORT (NON SELF-SUPPORTING) STEELWORK ASSEMBLY DETAILS	each	Quotation	R	1 983.60
6.1.94	2ET-14957 s10	MV Box Busbar - Lightning Spike	each	Quotation	R	1 045.78
6.1.95	D-DT-5272S3	HV XLPE CABLE END SUPPORT (NON SELF-SUPPORTING) SURGE ARRESTER MOUNTING PLATE	each	Quotation	R	1 479.16

The prequalification of a panel of contractors for the construction and dismantling of MV and HV distribution substations, traction stations, switching stations and bays for voltages ranging from 1.1kV up to and including 132kV within LimLanga Cluster-Limpopo, on an ``as and when`` required basis

Subtotal Item 6					
Item No.	Refer	Description of the item	Unit	Supply	Install/Erect
				7A	
7.1		<u>New Equipment:</u> Transport to site from Eskom stores Polokwane and Install the following equipment supplied by ESKOM:			
7.1.1		ISOLATORS			
7.1.2	D-DT-6150	ISOL 132kV 2500A 25kA H/O 31	each	Eskom Supply	R 5 033.63
7.1.3	D-DT-6150	ISOL 132kV 2500A 25kA H/O 20	each	Eskom Supply	R 5 033.63
7.1.4	D-DT-6150	ISOL 132kV 2500A 25kA INLINE H/O 31	each	Eskom Supply	R 5 033.63
7.1.5	D-DT-6150	ISOL 132kV 2500A 25kA INLINE H/O 20	each	Eskom Supply	R 5 033.63
7.1.6	D-DT-6150	ISOL 132kV 2500A 25kA M/O 20	each	Eskom Supply	R 5 033.63
7.1.7	D-DT-6150	ISOL 132kV 2500A 25kA M/O 31	each	Eskom Supply	R 5 033.63
7.1.8	D-DT-6302	ISOL,ELECT:132 KVAC;3;2500 A;HAND;40 KA	each	Eskom Supply	R 3 906.27
7.1.9	D-DT-6302	ISOL,ELECT:132 KVAC;3;2500 A;MOTO;40 KA	each	Eskom Supply	R 3 906.27
7.1.10	D-DT-6302	ISOL,ELECT:INLINE;132 KVAC;3;2500 A	each	Eskom Supply	R 3 906.27
7.1.11	D-DT-6152	ISOL,ELECT:66 KVAC;3;1600 A;MOTO;20 KA	each	Eskom Supply	R 3 906.27

The prequalification of a panel of contractors for the construction and dismantling of MV and HV distribution substations, traction stations, switching stations and bays for voltages ranging from 1.1kV up to and including 132kV within LimLanga Cluster-Limpopo, on an ``as and when`` required basis

7.1.12	D-DT-6152	ISOL,ELECT:66 KVAC;3;1600 A;HAND;20 KA	each	Eskom Supply	R	3 906.27
7.1.13	D-DT-6152	ISOL,ELECT:INLINE;66 KVAC;3;1600 A	each	Eskom Supply	R	3 906.27
7.1.14	D-DT-6152	ISOL,ELECT:66 KVAC;3;2500 A;MOTO;25 KA	each	Eskom Supply	R	3 906.27
7.1.15	D-DT-6152	ISOL,ELECT:66 KVAC;3;2500 A;HAND;25 KA	each	Eskom Supply	R	3 906.27
7.1.16	D-DT-6155	ISOL STR 33kV 400A 12kA P/S 31	each	Eskom Supply	R	1 783.96
7.1.17	D-DT-6156	ISOL 33kV 400A 12kA P/S 31	each	Eskom Supply	R	1 783.96
7.1.18	D-DT-6157	ISOL,ELECT:33 KVAC;3;1600 A;HAND;20 KA	each	Eskom Supply	R	1 783.96
7.1.19	D-DT-6157	ISOL,ELECT:33 KVAC;3;1600 A;MOTO;20 KA	each	Eskom Supply	R	1 783.96
7.1.20	D-DT-6308	ISOL 33kV 1600A 31.5kA H/O 20	each	Eskom Supply	R	1 783.96
7.1.21	D-DT-6308	ISOL 33kV 1600A 31.5kA H/O 31	each	Eskom Supply	R	1 783.96
7.1.22	D-DT-6308	ISOL 33kV 1600A 31.5kA M/O 20	each	Eskom Supply	R	1 783.96
7.1.23	D-DT-6308	ISOL 33kV 1600A 31.5kA M/O 31	each	Eskom Supply	R	1 783.96
7.1.24	D-DT-6154	ISOL,ELECT:22 KVAC;3;2500 A;HAND;25 KA	each	Eskom Supply	R	3 471.61
7.1.25	D-DT-6154	ISOL,ELECT:22 KVAC;3;2500 A;MOTO;25 KA	each	Eskom Supply	R	3 471.61
7.1.26	D-DT-6155	ISOL STR 22kV 400A 12kA P/S 31	each	Eskom Supply	R	3 471.61
7.1.27	D-DT-6156	ISOL 22kV 400A 12kA P/S 31	each	Eskom Supply	R	3 471.61
7.1.28	D-DT-6305	ISOL 22kV 2500A 31.5kA H/O 20	each	Eskom Supply	R	3 471.61

The prequalification of a panel of contractors for the construction and dismantling of MV and HV distribution substations, traction stations, switching stations and bays for voltages ranging from 1.1kV up to and including 132kV within LimLanga Cluster-Limpopo, on an ``as and when`` required basis

7.1.29	D-DT-6305	ISOL 22kV 2500A 31.5kA H/O 31	each	Eskom Supply	R	3 471.61
7.1.30	D-DT-6305	ISOL 22kV 2500A 31.5kA M/O 20	each	Eskom Supply	R	3 471.61
7.1.31	D-DT-6305	ISOL 22kV 2500A 31.5kA M/O 31	each	Eskom Supply	R	3 471.61
		BREAKERS				
7.1.32	D-DT-6250	BKR,CIRC:GAS 20MM;3150 A;132 KV;3;40 KA	each	Eskom Supply	R	5 673.64
7.1.33	D-DT-6250	BKR,CIRC:GAS 31MM;3150 A;132 KV;3;40 KA	each	Eskom Supply	R	5 673.64
7.1.34	D-DT-6250	BKR,CIRC:GAS 20MM;3150 A;132 KV;1;40 KA	each	Eskom Supply	R	5 673.64
7.1.35	D-DT-6250	BKR,CIRC:GAS 31MM;3150 A;132 KV;1;40 KA	each	Eskom Supply	R	5 673.64
7.1.36	D-DT-6250	BKR,CIRC:GAS 20MM;3150 A;132 KV;3;40 KA	each	Eskom Supply	R	5 673.64
7.1.37	D-DT-6250	BKR,CIRC:GAS 31MM;3150 A;132 KV;3;40 KA	each	Eskom Supply	R	5 673.64
7.1.38	D-DT-6250	BKR,CIRC:GAS 20MM;3150 A;132 KV;1;40 KA	each	Eskom Supply	R	5 673.64
7.1.39	D-DT-6250	BKR,CIRC:GAS 31MM;3150 A;132 KV;1;40 KA	each	Eskom Supply	R	5 673.64
7.1.40	D-DT-6251	BKR,CIRC:GAS;1600 A;66 KV;3;20 KA	each	Eskom Supply	R	3 310.19
7.1.41	D-DT-6251	BKR,CIRC:GAS;2500 A;66 KV;3;25 KA	each	Eskom Supply	R	3 310.19
7.1.42	D-DT-6251	BKR,CIRC:GAS;2500 A;66 KV;3;25 KA	each	Eskom Supply	R	3 310.19
7.1.43	D-DT-6251	BKR,CIRC:GAS;1600 A;66 KV;3;20 KA	each	Eskom Supply	R	3 617.77
7.1.44	D-DT-6266	BKR,CIRC:KIOSK;1600 A;33 KV;3;20 KA	each	Eskom Supply	R	4 718.68

The prequalification of a panel of contractors for the construction and dismantling of MV and HV distribution substations, traction stations, switching stations and bays for voltages ranging from 1.1kV up to and including 132kV within LimLanga Cluster-Limpopo, on an ``as and when`` required basis

7.1.45	D-DT-6266	BKR,CIRC:KIOSK;800 A;33 KV;3;20 KA	each	Eskom Supply	R	4 909.60
7.1.46	D-DT-6269	BKR 33kV 1600A 20kA 3P 20	each	Eskom Supply	R	4 670.31
7.1.47	D-DT-6269	BKR 33kV 1600A 20kA 3P 31	each	Eskom Supply	R	4 670.31
7.1.48	D-DT-6294	BKR PANEL 33kV 1250A 20kA B/S	each	Eskom Supply	R	4 670.31
7.1.49	D-DT-6294	BRK PANEL 33kV 1250A 20kA INCMR	each	Eskom Supply	R	4 670.31
7.1.50	D-DT-6294	BRK PANEL 33kV 800A 20kA FDR	each	Eskom Supply	R	4 670.31
7.1.51	D-DT-6294	BRK PANEL 33kV 800A 25kA FDR	each	Eskom Supply	R	4 670.31
7.1.52	D-DT-6310	BKR PANEL 33kV 1250A 31.5kA B/S	each	Eskom Supply	R	4 670.31
7.1.53	D-DT-6310	BRK PANEL 33kV 1250A 31.5kA TRFR	each	Eskom Supply	R	4 670.31
7.1.54	D-DT-6310	BRK PANEL 33kV 800A 31.5kA FDR	each	Eskom Supply	R	4 670.31
7.1.55	D-DT-6252	BKR KIOSK 22kV 1250A 20kA 31	each	Eskom Supply	R	4 397.65
7.1.56	D-DT-6252	BKR KIOSK 22kV 1250A 20kA 31 LOW	each	Eskom Supply	R	4 571.49
7.1.57	D-DT-6255	BKR PANEL 22kV 1250A 20kA B/S	each	Eskom Supply	R	4 670.31
7.1.58	D-DT-6255	BRK PANEL 22kV 1250A 20kA INCMR	each	Eskom Supply	R	4 670.31
7.1.59	D-DT-6255	BRK PANEL 22kV 800A 20kA FDR	each	Eskom Supply	R	4 670.31
7.1.60	D-DT-6293	BKR 22kV 1250A 20kA 20 3P	each	Eskom Supply	R	1 783.96
7.1.61	D-DT-6293	BKR 22kV 1250A 20kA 31 3P	each	Eskom Supply	R	1 783.96

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7.1.62	D-DT-6307	BKR 22kV 1250A 31.5kA 20 3P	each	Eskom Supply	R	1 783.96
7.1.63	D-DT-6307	BKR 22kV 1250A 31.5kA 31 3P	each	Eskom Supply	R	1 783.96
7.1.64	D-DT-6358	BKR PANEL 11kV 800A 25kA FDR (A)	each	Eskom Supply	R	1 783.96
7.1.65	D-DT-6358	BRK PANEL 11kV 800A 25kA FDR (B)	each	Eskom Supply	R	1 783.96
7.1.66	D-DT-6358	BKR PANEL 11kV 1250A 25kA B/S	each	Eskom Supply	R	1 783.96
7.1.67	D-DT-6358	BKR PANEL 11kV 1250A 25kA INCMR	each	Eskom Supply	R	1 783.96
7.1.68	D-DT-6358	BKR PANEL 11kV 1250A 25kA FDR (A)	each	Eskom Supply	R	1 783.96
7.1.69	D-DT-6358	BKR PANEL 11kV 2500A 25kA B/S	each	Eskom Supply	R	1 783.96
7.1.70	D-DT-6358	BKR PANEL 11kV 2500A 25kA INCMR	each	Eskom Supply	R	1 783.96
7.1.71	D-DT-6358	BRK PANEL 11kV 1250A 25kA FDR (B)	each	Eskom Supply	R	1 783.96
7.1.72	D-DT-6358	BKR PANEL 11kV 800A 25kA FDR A LOW	each	Eskom Supply	R	1 783.96
7.1.73	D-DT-6358	BRK PANEL 11kV 800A 25kA FDR B LOW	each	Eskom Supply	R	1 783.96
7.1.74	D-DT-6265	BKR,CIRC:KIOSK;2500 A;11 KV;3;25 KA	each	Eskom Supply	R	1 783.96
7.1.75	D-DT-6268	BKR 11kV 2500A 25kA 3P 20	each	Eskom Supply	R	1 783.96
7.1.76	D-DT-6268	BKR 11kV 2500A 25kA 3P 31	each	Eskom Supply	R	1 783.96
		CURRENT TRANSFORMER				
7.1.77	D-DT-6190	CT 132kV 2500A 40kA 2P2M2B500 31	each	Eskom Supply	R	1 285.68

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7.1.78	D-DT-6190	CT 132kV 2500A 40kA 2P2M2B1600 31	each	Eskom Supply	R	1 285.68
7.1.79	D-DT-6190	CT 132kV 2500A 40kA 2P2M2B2400 31	each	Eskom Supply	R	1 285.68
7.1.80	D-DT-6190	CT 132kV 200A 10kA/1s 2MR 31	each	Eskom Supply	R	1 285.68
7.1.81	D-DT-6198	CT 66kV 1600A 31.5kA 2P2M2B500 31	each	Eskom Supply	R	1 285.68
7.1.82	D-DT-6198	CT 66kV 1600A 31.5kA 2P2M2B1600 31	each	Eskom Supply	R	1 285.68
7.1.83	D-DT-6198	CT 66kV 200A 10kA/1s 2MR 31	each	Eskom Supply	R	1 285.68
7.1.84	D-DT-6191	CT 33kV 1600A 31.5kA 2P2M 31	each	Eskom Supply	R	1 285.68
7.1.85	D-DT-6192	CT 22kV 1600A 25kA 2P2M 31	each	Eskom Supply	R	1 285.68
7.1.86	D-DT-6192	CT 22kV 2500A 25kA 2P2M 31	each	Eskom Supply	R	1 285.68
		VOLTAGE TRANSFORMER				
7.1.87	D-DT-6170	VT 1PH 132kV/110V 100/50VA 31	each	Eskom Supply	R	1 082.68
7.1.88	D-DT-6171	VT 1PH 88kV/110V 100/50VA 31	each	Eskom Supply	R	1 082.68
7.1.89	D-DT-6176	VT 1PH 66kV/110V 100/50VA 31	each	Eskom Supply	R	1 082.68
7.1.90	D-DT-6177	VT 1PH 44kV/110V 100/50VA 31	each	Eskom Supply	R	1 082.68
7.1.91	D-DT-6172	VT 1PH 33kV/110V 100/50VA 31	each	Eskom Supply	R	1 082.68
7.1.92	D-DT-6175	VT PANEL 33kV/110V 50VA CL 0.2	each	Eskom Supply	R	1 082.68
7.1.93	D-DT-6173	VT 1PH 22kV/110V 100/50VA 31	each	Eskom Supply	R	1 082.68

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7.1.94	D-DT-6175	VT PANEL 22kV/110V 50VA CL 0.2	each	Eskom Supply	R	1 082.68
7.1.95	D-DT-6174	VT 1PH 11kV/110V 100/50VA 31	each	Eskom Supply	R	1 082.68
7.1.96	D-DT-6175	VT PANEL 11kV/110V 50VA CL 0.2 (A)	each	Eskom Supply	R	1 082.68
7.1.97	D-DT-6175	VT PANEL 11kV/110V 50VA CL 0.2 (B)	each	Eskom Supply	R	1 082.68
7.1.98	D-DT-6175	VT PANEL 6.6kV/110V 50VA CL 0.2 (A)	each	Eskom Supply	R	1 082.68
7.1.99	D-DT-6175	VT PANEL 6.6kV/110V 50VA CL 0.2 (B)	each	Eskom Supply	R	1 082.68
7.1.100	D-DT-6178	VT 1PH 6.6kV/110V 100/50VA 31	each	Eskom Supply	R	1 082.68
		NEC/NER/AUX				
7.1.101	D-DT-6145	NEC/NER/AUX TFR 44kV 360A 20	each	Eskom Supply	R	1 802.43
7.1.102	D-DT-6145	NEC/NER/AUX TFR 44kV 360A 31	each	Eskom Supply	R	1 802.43
7.1.103	D-DT-6142	NEC/NER/AUX TFR 33kV 360A 20	each	Eskom Supply	R	1 802.43
7.1.104	D-DT-6142	NEC/NER/AUX TFR 33kV 360A 31	each	Eskom Supply	R	1 802.43
7.1.105	D-DT-6142	NEC/NER/AUX TFR 33kV 960A 20	each	Eskom Supply	R	1 802.43
7.1.106	D-DT-6142	NEC/NER/AUX TFR 33kV 960A 31	each	Eskom Supply	R	1 802.43
7.1.107	D-DT-6141	NEC/NER/AUX TFR 22kV 360A 20	each	Eskom Supply	R	1 802.43
7.1.108	D-DT-6141	NEC/NER/AUX TFR 22kV 960A 20	each	Eskom Supply	R	1 802.43
7.1.109	D-DT-6141	NEC/NER/AUX TFR 22kV 360A 31	each	Eskom Supply	R	1 802.43

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7.1.110	D-DT-6141	NEC/NER/AUX TFR 22kV 960A 31	each	Eskom Supply	R	1 802.43
7.1.111	D-DT-6140	NEC/NER/AUX TFR 11kV 360A 20	each	Eskom Supply	R	1 802.43
7.1.112	D-DT-6140	NEC/NER/AUX TFR 11kV 960A 20	each	Eskom Supply	R	1 802.43
7.1.113	D-DT-6140	NEC/NER/AUX TFR 11kV 360A 31	each	Eskom Supply	R	1 802.43
7.1.114	D-DT-6140	NEC/NER/AUX TFR 11kV 960A 31	each	Eskom Supply	R	1 802.43
7.1.115	D-DT-6143	NEC/NER/AUX TFR 6.6kV 360A 20	each	Eskom Supply	R	1 802.43
7.1.116	D-DT-6143	NEC/NER/AUX TFR 6.6kV 360A 31	each	Eskom Supply	R	1 802.43
		TRANSFORMER				
7.1.117	D-DT-6120	TRFR 10MVA 132/11kV OLTC YNd1 31 D6120	each	Eskom Supply	R	2 645.19
7.1.118	D-DT-6120	TRFR 20MVA 132/11kV OLTC YNd1 31 D6120	each	Eskom Supply	R	2 645.19
7.1.119	D-DT-6120	TRFR 40MVA 132/11kV OLTC (HI) YNd1 31 D6120	each	Eskom Supply	R	2 645.19
7.1.120	D-DT-6120	TRFR 5MVA 132/11kV OLTC YNd1 31 D6120	each	Eskom Supply	R	2 645.19
7.1.121	D-DT-6120	TRFR 40MVA 132/11kV OLTC (SI) YNd1 31 D6120	each	Eskom Supply	R	2 645.19
7.1.122	D-DT-6120	TRFR 20MVA 132/11kV OLTC YNd1 31 H/D D6120	each	Eskom Supply	R	2 645.19
7.1.123	D-DT-6120	TRFR 40MVA 132/11kV OLTC YNd1 31 H/D D6120	each	Eskom Supply	R	2 645.19
7.1.124	D-DT-6122	TRFR 10MVA 132/22kV OLTC YNd1 31 D6122	each	Eskom Supply	R	2 645.19
7.1.125	D-DT-6122	TRFR 20MVA 132/22kV OLTC YNd1 31 D6122	each	Eskom Supply	R	2 645.19

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7.1.126	D-DT-6122	TRFR 40MVA 132/22kV OLTC YNd1 31 D6122	each	Eskom Supply	R	2 645.19
7.1.127	D-DT-6122	TRFR 5MVA 132/22kV OLTC YNd1 31 D6122	each	Eskom Supply	R	2 645.19
7.1.128	D-DT-6122	TRFR 20MVA 132/22kV OLTC YNd1 31 H/D D6122	each	Eskom Supply	R	2 645.19
7.1.129	D-DT-6122	TRFR 40MVA 132/22kV OLTC YNd1 31 H/D D6122	each	Eskom Supply	R	2 645.19
7.1.130	D-DT-6125	TRFR 10MVA 132/33kV OLTC YNd1 31 D6125	each	Eskom Supply	R	2 645.19
7.1.131	D-DT-6125	TRFR 20MVA 132/33kV OLTC YNd1 31 D6125	each	Eskom Supply	R	2 645.19
7.1.132	D-DT-6125	TRFR 40MVA 132/33kV OLTC YNd1 31 D6125	each	Eskom Supply	R	2 645.19
7.1.133	D-DT-6125	TRFR 80MVA 132/33kV OLTC YNd1 31 D6125	each	Eskom Supply	R	2 645.19
7.1.134	D-DT-6132	TRFR 10MVA 132/6.6kV OLTC YNd1 31 D6132	each	Eskom Supply	R	2 645.19
7.1.135	D-DT-6132	TRFR 20MVA 132/6.6kV OLTC (SI) YNd1 31 D6132	each	Eskom Supply	R	2 645.19
7.1.136	D-DT-6132	TRFR 20MVA 132/6.6kV OLTC (HI) YNd1 31 D6132	each	Eskom Supply	R	2 645.19
7.1.137	D-DT-6134	TRFR 20MVA 132/11kV OLTC YNyn6 D6134	each	Eskom Supply	R	2 645.19
7.1.138	D-DT-6134	TRFR 40 MVA 132/11kV OLTC YNyn6 D6134	each	Eskom Supply	R	2 645.19
7.1.139	D-DT-6276	TRFR 20MVA 132/44/22kV OLTC YNa0d1 31 D6276	each	Eskom Supply	R	2 645.19
7.1.140	D-DT-6276	TRFR 40MVA 132/44/22kV OLTC YNa0d1 31 D6276	each	Eskom Supply	R	2 645.19
7.1.141	D-DT-6276	TRFR 80MVA 132/44/22kV OLTC YNa0d1 31 D6276	each	Eskom Supply	R	2 645.19
7.1.142	D-DT-6277	TRFR 20MVA 132/66/22kV OLTC YNa0d1 31 D6277	each	Eskom Supply	R	2 645.19

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7.1.143	D-DT-6277	TRFR 40MVA 132/66/22kV OLTC YNa0d1 31 D6277	each	Eskom Supply	R	2 645.19
7.1.144	D-DT-6277	TRFR 80MVA 132/66/22kV OLTC YNa0d1 31 D6277	each	Eskom Supply	R	2 645.19
7.1.145	D-DT-6277	TRFR 160MVA 132/66/22kV OLTC YNa0d1 31 D6277	each	Eskom Supply	R	2 645.19
7.1.146	D-DT-6278	TRFR 20MVA 132/88/22kV OLTC YNa0d1 31 D6278	each	Eskom Supply	R	2 645.19
7.1.147	D-DT-6278	TRFR 40MVA 132/88/22kV OLTC YNa0d1 31 D6278	each	Eskom Supply	R	2 645.19
7.1.148	D-DT-6278	TRFR 80MVA 132/88/22kV OLTC YNa0d1 31 D6278	each	Eskom Supply	R	2 645.19
7.1.149	D-DT-6278	TRFR 160MVA 132/88/22kV OLTC YNa0d1 31 D6278	each	Eskom Supply	R	2 645.19
7.1.150	D-DT-6126	TRFR 5MVA 88/11kV OLTC YNd1 31 D6126	each	Eskom Supply	R	2 645.19
7.1.151	D-DT-6126	TRFR 10MVA 88/11kV OLTC YNd1 31 D6126	each	Eskom Supply	R	2 645.19
7.1.152	D-DT-6126	TRFR 20MVA 88/11kV OLTC YNd1 31 D6126	each	Eskom Supply	R	2 645.19
7.1.153	D-DT-6126	TRFR 40MVA 88/11kV OLTC (HI) YNd1 31 D6126	each	Eskom Supply	R	2 645.19
7.1.154	D-DT-6126	TRFR 40MVA 88/11kV OLTC (SI) YNd1 31 D6126	each	Eskom Supply	R	2 645.19
7.1.155	D-DT-6126	TRFR 20MVA 88/11kV OLTC YNd1 31 H/D D6126	each	Eskom Supply	R	2 645.19
7.1.156	D-DT-6126	TRFR 40MVA 88/11kV OLTC YNd1 31 H/D D6126	each	Eskom Supply	R	2 645.19
7.1.157	D-DT-6128	TRFR 5MVA 88/22kV OLTC YNd1 31 D6128	each	Eskom Supply	R	2 645.19
7.1.158	D-DT-6128	TRFR 10MVA 88/22kV OLTC YNd1 31 D6128	each	Eskom Supply	R	2 645.19
7.1.159	D-DT-6128	TRFR 20MVA 88/22kV OLTC YNd1 31 D6128	each	Eskom Supply	R	2 645.19

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7.1.160	D-DT-6128	TRFR 40MVA 88/22kV OLTC YNd1 31 D6128	each	Eskom Supply	R	2 645.19
7.1.161	D-DT-6128	TRFR 20MVA 88/22kV OLTC YNd1 31 H/D D6128	each	Eskom Supply	R	2 645.19
7.1.162	D-DT-6128	TRFR 40MVA 88/22kV OLTC YNd1 31 H/D D6128	each	Eskom Supply	R	2 645.19
7.1.163	D-DT-6131	TRFR 10MVA 88/33kV OLTC YNd1 31 D6131	each	Eskom Supply	R	2 645.19
7.1.164	D-DT-6131	TRFR 20MVA 88/33kV OLTC YNd1 31 D6131	each	Eskom Supply	R	2 645.19
7.1.165	D-DT-6131	TRFR 40MVA 88/33kV OLTC YNd1 31 D6131	each	Eskom Supply	R	2 645.19
7.1.166	D-DT-6131	TRFR 80MVA 88/33kV OLTC YNd1 31 D6131	each	Eskom Supply	R	2 645.19
7.1.167	D-DT-6270	TRFR 5MVA 88/6.6kV OLTC YNd1 31 D6270	each	Eskom Supply	R	2 645.19
7.1.168	D-DT-6270	TRFR 10MVA 88/6.6kV OLTC YNd1 31 D6270	each	Eskom Supply	R	2 645.19
7.1.169	D-DT-6270	TRFR 20MVA 88/6.6kV OLTC (SI) YNd1 31 D6270	each	Eskom Supply	R	2 645.19
7.1.170	D-DT-6270	TRFR 20MVA 88/6.6kV OLTC (HI) YNd1 31 D6270	each	Eskom Supply	R	2 645.19
7.1.171	D-DT-6291	TRFR 20MVA 88/44/22kV OLTC YNa0d1 31 D6291	each	Eskom Supply	R	2 645.19
7.1.172	D-DT-6291	TRFR 40MVA 88/44/22kV OLTC YNa0d1 31 D6291	each	Eskom Supply	R	2 645.19
7.1.173	D-DT-6291	TRFR 80MVA 88/44/22kV OLTC YNa0d1 31 D6291	each	Eskom Supply	R	2 645.19
7.1.174	D-DT-6301	TRFR 30MVA 88/44kV OLTC YNd1 31 D6301	each	Eskom Supply	R	2 645.19
7.1.175	D-DT-6301	TRFR 20MVA 88/44kV OLTC YNd1 31 D6301	each	Eskom Supply	R	2 645.19
7.1.176	D-DT-6301	TRFR 40MVA 88/44 kV OLTC YNd1 31 D6301	each	Eskom Supply	R	2 645.19

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7.1.177	D-DT-6280	TRFR 5MVA 66/6.6kV OLTC YNd1 31 D6280	each	Eskom Supply	R	2 645.19
7.1.178	D-DT-6280	TRFR 10MVA 66/6.6kV OLTC YNd1 31 D6280	each	Eskom Supply	R	2 645.19
7.1.179	D-DT-6280	TRFR 20MVA 66/6.6kV OLTC (SI) YNd1 31 D6280	each	Eskom Supply	R	2 645.19
7.1.180	D-DT-6280	TRFR 20MVA 66/6.6kV OLTC (HI) YNd1 31 D6280	each	Eskom Supply	R	2 645.19
7.1.181	D-DT-6281	TRFR 2,5MVA 66/11kV OLTC YNd1 31 D6281	each	Eskom Supply	R	2 645.19
7.1.182	D-DT-6281	TRFR 5MVA 66/11kV OLTC YNd1 31 D6281	each	Eskom Supply	R	2 645.19
7.1.183	D-DT-6281	TRFR 10MVA 66/11kV OLTC YNd1 31 D6281	each	Eskom Supply	R	2 645.19
7.1.184	D-DT-6281	TRFR 20MVA 66/11kV OLTC YNd1 31 D6281	each	Eskom Supply	R	2 645.19
7.1.185	D-DT-6281	TRFR 40MVA 66/11kV OLTC YNd1 31 D6281	each	Eskom Supply	R	2 645.19
7.1.186	D-DT-6281	TRFR 40MVA 66/11kV OLTC (HI) YNd1 31 D6281	each	Eskom Supply	R	2 645.19
7.1.187	D-DT-6282	TRFR 20,0MVA 66/11kV OLTC YNyn6 D6282	each	Eskom Supply	R	2 645.19
7.1.188	D-DT-6282	TRFR 40,0MVA 66/11kV OLTC YNyn6 D6282	each	Eskom Supply	R	2 645.19
7.1.189	D-DT-6283	TRFR 2,5MVA 66/22kV OLTC YNd1 31 D6283	each	Eskom Supply	R	2 645.19
7.1.190	D-DT-6283	TRFR 5MVA 66/22kV OLTC YNd1 31 D6283	each	Eskom Supply	R	2 645.19
7.1.191	D-DT-6283	TRFR 10MVA 66/22kV OLTC YNd1 31 D6283	each	Eskom Supply	R	2 645.19
7.1.192	D-DT-6283	TRFR 20MVA 66/22kV OLTC YNd1 31 D6283	each	Eskom Supply	R	2 645.19
7.1.193	D-DT-6283	TRFR 40MVA 66/22kV OLTC YNd1 31 D6283	each	Eskom Supply	R	2 645.19

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7.1.194	D-DT-6284	TRFR 5MVA 44/6.6kV OLTC YNd1 31 D6284	each	Eskom Supply	R	2 645.19
7.1.195	D-DT-6284	TRFR 10MVA 44/6.6kV OLTC YNd1 31 D6284	each	Eskom Supply	R	2 645.19
7.1.196	D-DT-6284	TRFR 20MVA 44/6.6kV OLTC (SI) YNd1 31 D6284	each	Eskom Supply	R	2 645.19
7.1.197	D-DT-6285	TRFR 2,5MVA 44/11kV OLTC YNd1 31 D6285	each	Eskom Supply	R	2 645.19
7.1.198	D-DT-6285	TRFR 5MVA 44/11kV OLTC YNd1 31 D6285	each	Eskom Supply	R	2 645.19
7.1.199	D-DT-6285	TRFR 10MVA 44/11kV OLTC YNd1 31 D6285	each	Eskom Supply	R	2 645.19
7.1.200	D-DT-6285	TRFR 20MVA 44/11kV OLTC YNd1 31 D6285	each	Eskom Supply	R	2 645.19
7.1.201	D-DT-6286	TRFR 5MVA 44/22kV OLTC YNd1 31 D6286	each	Eskom Supply	R	2 645.19
7.1.202	D-DT-6286	TRFR 10MVA 44/22kV OLTC YNd1 31 D6286	each	Eskom Supply	R	2 645.19
7.1.203	D-DT-6286	TRFR 20MVA 44/22kV OLTC YNd1 31 D6286	each	Eskom Supply	R	2 645.19
7.1.204	D-DT-6287	TRFR 2.5MVA 33/11kV OCTS YNyn0 31 D6287	each	Eskom Supply	R	2 645.19
7.1.205	D-DT-6287	TRFR 5MVA 33/11kV OLTC YNyn0 31 D6287	each	Eskom Supply	R	2 645.19
7.1.206	D-DT-6287	TRFR 10MVA 33/11kV OLTC YNyn0 31 D6287	each	Eskom Supply	R	2 645.19
7.1.207	D-DT-6287	TRFR 20MVA 33/11kV OLTC YNyn0 31 D6287	each	Eskom Supply	R	2 645.19
7.1.208	D-DT-6289	TRFR 2,5MVA 33/22kV OLTC YNyn0 31 D6289	each	Eskom Supply	R	2 645.19
7.1.209	D-DT-6289	TRFR 5MVA 33/22kV OLTC YNyn0 31 D6289	each	Eskom Supply	R	2 645.19
7.1.210	D-DT-6289	TRFR 10MVA 33/22kV OLTC YNyn0 31 D6289	each	Eskom Supply	R	2 645.19

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7.1.211	D-DT-6290	TRFR 2,5MVA 22/11kV OCTS YNyn0 31 D6290	each	Eskom Supply	R	2 645.19
7.1.212	D-DT-6290	TRFR 5MVA 22/11kV OLTC YNyn0 31 D6290	each	Eskom Supply	R	2 645.19
7.1.213	D-DT-6290	TRFR 10MVA 22/11kV OLTC YNyn0 31 D6290	each	Eskom Supply	R	2 645.19
7.1.214	D-DT-6290	TRFR 20MVA 22/11kV OLTC YNyn0 31 D6290	each	Eskom Supply	R	2 645.19
7.1.215	D-DT-6290	TRFR 1,25MVA 22/11kV OCTS YNyn0 31 D6290	each	Eskom Supply	R	2 645.19
7.1.216	D-DT-6300	TFR 100kVA 22kV/415V AUX 31 D6300	each	Eskom Supply	R	2 645.19
7.1.217	D-DT-6300	TFR 100kVA 11kV/415V AUX 31 D6300	each	Eskom Supply	R	2 645.19
		SURGE ARRESTERS				
7.1.218	D-DT 6210	S/ARR S/CL 132kV MCOV 84kV 31 D6210	each	Eskom Supply	R	553.64
7.1.219	D-DT 6210	S/ARR S/CL 132kV MCOV 84kV 20 D6210	each	Eskom Supply	R	553.64
7.1.220	D-DT 6211	S/ARR S/CL 88kV MCOV 56kV 20 D6211	each	Eskom Supply	R	553.64
7.1.221	D-DT 6211	S/ARR S/CL 88kV MCOV 56kV 31 D6211	each	Eskom Supply	R	553.64
7.1.222	D-DT 6212	S/ARR S/CL 66kV MCOV 48kV 31 D6212	each	Eskom Supply	R	553.64
7.1.223	D-DT 6212	S/ARR S/CL 66kV MCOV 48kV 20 D6212	each	Eskom Supply	R	553.64
7.1.224	D-DT 6213	S/ARR S/CL 33kV&44kV MCOV 36kV 31 D6214	each	Eskom Supply	R	553.64
7.1.225	D-DT 6213	S/ARR S/CL 33kV&44kV MCOV 36kV 20 D6214	each	Eskom Supply	R	553.64
7.1.226	D-DT 6215	S/ARR S/CL 22kV MCOV 24kV 31 D6215	each	Eskom Supply	R	553.64

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7.1.227	D-DT 6215	S/ARR S/CL 22kV MCOV 24kV 20 D6215	each	Eskom Supply	R	553.64
7.1.228	D-DT 6216	S/ARR S/CL 11kV MCOV 12kV 31 D6216	each	Eskom Supply	R	553.64
7.1.229	D-DT 6216	S/ARR S/CL 11kV MCOV 12kV 20 D6216	each	Eskom Supply	R	553.64
7.1.230	D-DT 6217	S/ARR S/CL 6.6kV MCOV 7.2kV 31 D6217	each	Eskom Supply	R	409.08
7.1.231	D-DT 6217	S/ARR S/CL 6.6kV MCOV 7.2kV 20 D6217	each	Eskom Supply	R	409.08
		POST INSULATORS				
7.1.232	D-DT-6230	INSUL:STN POST;C4-550;132 KV	each	Eskom Supply	R	553.64
7.1.233	D-DT-6231	INSUL:STN POST;C4-325;66 KV	each	Eskom Supply	R	553.64
7.1.234	D-DT-6232	INSUL:STN POST;C4-200;33 KV	each	Eskom Supply	R	553.64
7.1.235	D-DT-6233	INSUL:STN POST;C4-150;22 KV	each	Eskom Supply	R	553.64
7.1.236	D-DT-3042	INSUL,L/ROD 22kV 40kN 450C/L	each	Eskom Supply	R	553.64
Subtotal Item 7A						
Item No.	Refer	Description of the item	Unit			
				Supply	Install/Erect	

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7B		INSTALLATION OF EQUIPMENT cont.				
7.2		Miscellaneous: Supply, Transport to site and Install the following equipment:				
7.2.1	D-DT 6081	Joint-Ball Portable Earth	each	Quotation	R	55.36
7.2.2	D-DT-6050	Padlock, St Oper. Master North Reg	each	Quotation	R	18.45
7.2.3	D-DT-6050	Padlock, St Proh. Master North Reg	each	Quotation	R	18.45
7.2.4	D-DT 6292	Putty, Scotchfill 38mm W Roll	roll	Quotation	R	18.45
7.2.5	D-DT 6292	Tape, Electric 18W x 0.76 Thick	roll	Quotation	R	12.31
7.2.6	D-DT 6065	Control Cable Bracket	each	Quotation	R	18.45
7.2.7	D-DT 6055	Acrylic Cover 480X160mm ACC4	each	Quotation	R	18.45
7.2.8	D-DT-6097	Bolt, Hx Galv M16x45mm W/Hx Nut	each	Quotation	R	7.37
7.2.9	D-DT-3014	Washer, Rd Flat M16 29.6D 18.25Dia HL	each	Quotation	R	6.15
7.2.10	D-DT-3014	Washer, Taper Galv M16 38SQ 18.25Dia HL	each	Quotation	R	6.15
7.2.11	D-DT-6087	Spacer cond 38.3mm 150CRS S11	each	Quotation	R	79.98
7.2.12	D-DT-3031 S2	Strap, tie ST GALV 910x50x6	each	Quotation	R	18.45
7.2.13	D-DT-8006	Term kit 3C 11kV 50-95SQ OD XLPE	each	Quotation	R	1 575.54
7.2.14	D-DT-7015	Plate yoke triang 150mm CRS 120KN	each	Quotation	R	63.73
7.2.15	D-DT-7003	CLAMP S/WIRE	each	Quotation	R	76.65

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7.2.16	D-DT-6059	CLEVIS BALL 16mm IEC 120kN	each	Quotation	R	36.30
7.2.17	D-DT-6061	SOCK TONG 16mm IEC 120kN	each	Quotation	R	49.21
7.2.18	D-DT-7021	Sock-Clevis 16 mm 120 kN	each	Quotation	R	26.81
7.2.19	D-DT-7036	Wire strand, ST 14/2,65 11 000 MPA	each	Quotation	R	21.53
7.2.20	D-DT-3026	Thimble, St to fit 14 mm Dia wire	each	Quotation	R	18.45
7.2.21	D-DT-7036	Guygrip, D/end ST 13.21 19/2,65	each	Quotation	R	31.98
7.2.22	D-DT-8001	Cable 3C 11 kV 95 mm SQ Cu EUX3PCQ	each	Quotation	R	97.20
7.2.23	D-DT-6065	BRACKET-CONTROL CABLE	each	Quotation	R	84.58
7.2.24	D-DT-6000s1	TUBE AL 120mm OD x 4mm W THK 12m L	each	Quotation	R	186.55
7.2.25	D-DT-6040s2	END CAP, TBEC 120 COND WITH F/CLAMP	each	Quotation	R	93.25
7.2.26	D-DT-6040s1	END CAP, TBEC 120 PLAIN NO F/CLAMP	each	Quotation	R	93.25
7.2.27	D-DT-6055	COVER ACRYLIC 480x160mm ACC4	each	Quotation	R	67.67
7.2.28	D-DT-3136s8	COND,AAC BULL 38.25D INSU UNGRS	each	Quotation	R	86.13
7.2.29	D-DT 6155	Isol, STR 22kV 400A 12kA P/S	each	Quotation	R	293.47
7.2.30	D-DT 3082s2	Set Screw,HX Galv M16x65 Nut+ wash	each	Quotation	R	18.45
7.2.31	D-DT 6156s2	Isol, 22kV 400A 12kA P/S	each	Quotation	R	293.47
7.2.32	D-DT-3136s8	COND,AAC HORNET 16.25D INSU UNGRS	each	Quotation	R	26.44

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7.2.33	D-DT-3074s1	LUG, AL HORNET 1B M12 0DG I/C	each	Quotation	R	29.54
7.2.34	D-DT-6000s1	TUBE AL 80mm OD x 8mm W THK 10m L	each	Quotation	R	135.09
7.2.35	D-DT-6040s2	END CAP TBEC 80 COND WITH F/CLAMP	each	Quotation	R	99.41
7.2.36	D-DT-6040s1	END CAP TBEC 80 PLAIN NO F/CLAMP	each	Quotation	R	99.41
7.2.37	D-DT-6055	COVER ACRYLIC 350x1100mm ACC3	each	Quotation	R	76.88
7.2.38	D-DT-3031s2	STRAP, TIE ST GALV 910x50x6	each	Quotation	R	18.45
7.2.39	D-DT-3065s2	DEAD END, HELICALLY FORMED HORNET	each	Quotation	R	43.06
7.2.40	D-DT 3136	Cond,AAC C/pede 26.45D UNGRS	each	Quotation	R	38.14
7.2.41	D-DT 3136	Cond,AAC Bull 38.25D Insu UNGRS	each	Quotation	R	43.06
7.2.42	D-DT 3136	Cond,AAC Bull 38.25D UNGRS	each	Quotation	R	43.06
7.2.43	D-DT 3136s7	Cond, AAC Hornet 16.25D UNGRS	each	Quotation	R	30.76
7.2.44	D-DT 3136s8	Cond, AAC Hornet 16.25D INSU	each	Quotation	R	30.76
7.2.45	D-DT-3136s2	Cond, ARC Hare 14.16D UNGRS	each	Quotation	R	25.83
7.2.46	D-DT-3014	Washer, Taper Galv M16 38SQ 18.25Dia HL	each	Quotation	R	6.15
		<u>Power Cable</u>				
7.2.46		Install 630mm ² 1 Core Cu XLPE 11kV cable	m	Quotation	R	145.03
7.2.47		Termination kits ID 630mm ² set	Each	Quotation	R	3 172.07

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7.2.48		Termination kits OD 630mm ² set	Each	Quotation	R	3 172.07
7.2.49		Termination kits 95mm ² OD	Each	Quotation	R	1 783.35
Item 7B Subtotal						
Item No.	Refer	Description of the item	Unit			
7C		INSTALLATION OF EQUIPMENT cont.		Supply	Install/Erect	
7.3		<u>Clamp Assemblies:</u> Supply, Transport to site and Install the following clamp assemblies.				
7.3.1	D-DT-3074	<u>Termination Crimp Lug</u>				
7.3.1.1		LUG AL HORNET 1B M12 0DG 1/C	each	Quotation	R	36.30
7.3.1.2	Non Stock McWade: L406302	COMP. JUMPER TERMINAL LUG FOR COMP. DEAD ENDS BULL	each	Quotation	R	120.94
7.3.2	D-DT-6002	<u>EX-TYPE</u>				
7.3.2.1		EX 2	each	Quotation	R	162.36
7.3.2.2		EX 4	each	Quotation	R	175.87
7.3.3	D-DT-6006	<u>EXC-TYPE</u>				

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7.3.3.1		EXC 1	each	Quotation	R	136.32
7.3.3.2		EXC 2	each	Quotation	R	136.32
7.3.3.3		EXC 3	each	Quotation	R	136.32
7.3.4	D-DT-6010	<u>ETC-TYPE</u>				
7.3.4.1		ETC 9	each	Quotation	R	190.70
7.3.4.2		ETC 15	each	Quotation	R	190.70
7.3.5	D-DT-6013	<u>EYC-Type</u>				
7.3.5.1		EYC A,B,C,D,E,F,G,H,J,K,L,M	each	Quotation	R	190.70
7.3.5.2		EYC AA,AB,AC	each	Quotation	R	190.70
7.3.6	D-DT-6018	<u>Bolted Compression Type</u>				
7.3.6.1		SPC 1	each	Quotation	R	151.30
7.3.6.2		SPC 4	each	Quotation	R	158.21
7.3.7	D-DT-6022	<u>Y Type</u>				
7.3.7.1		Y 7	each	Quotation	R	190.70
7.3.8	D-DT-6025	<u>Fix Support Type</u>				
7.3.8.1		P 38/76/150	each	Quotation	R	150.71
7.3.8.2		P 38/127/150	each	Quotation	R	150.71

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7.3.9	D-DT-6027	<u>Stud Palm Bolt Type</u>				
7.3.9.1		STP 38	each	Quotation	R	156.48
Item 7C Subtotal						
Item No.	Refer	Description of the item	Unit	Supply		Install/Erect
7D		INSTALLATION OF EQUIPMENT cont.				
7.3.10	D-DT-6029	<u>Fix Support Type</u>				
7.3.10.1		KCP 26/127	each	Quotation	R	190.70
7.3.10.2		KCP 38/127	each	Quotation	R	190.70
7.3.11	D-DT-6109	<u>Y-Compression Palm Type</u>				
7.3.11.1		YC 16 0DG	each	Quotation	R	190.70
	D-DT-6013	YC2 ODG	each	Quotation	R	190.70
	D-DT-6013	YC4 45DG	each	Quotation	R	190.70
	D-DT-6013	YC6 90DG	each	Quotation	R	190.70

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7.3.12	D-DT-6115	<u>PEG Al Type</u>				
7.3.12.1		EPC 26	each	Quotation	R	138.40
7.3.12.2		EPC 38	each	Quotation	R	138.40
7.3.13	D-DT-6087	<u>Spacers</u>				
7.3.13.1		Spacer CRS S2	each	Quotation	R	136.32
		<u>Tubular clamps</u> Supply, Transport to site and Install the following clamp assemblies.	each	Quotation		
7.3.14	D-DT-6035	<u>Bus Stud Type</u>				
7.3.14.1		TBST 120/38/C	each	Quotation	R	190.70
7.3.15	D-DT-6039	<u>Fixed Busbar Support Type</u>				
7.3.15.1		TBFS 80-127	each	Quotation	R	190.70
7.3.15.2		TBFS 120-127	each	Quotation	R	190.70
7.3.16	D-DT-6040	<u>End Caps</u>				
7.3.16.1		TBEC 80 – Plain	each	Quotation	R	135.35
7.3.16.2		TBEC 120 – Plain	each	Quotation	R	138.40
7.3.16.3		TBEC 120 – with F/Clamp	each	Quotation	R	138.40
7.3.17	D-DT-6086	<u>Bus Coupler Type</u>				
7.3.17.1		TBSC 80-127	each	Quotation	R	190.70
7.3.17.2		TBSC120-127	each	Quotation	R	190.70

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7.3.17.3		TBFC 120-127	each	Quotation	R	190.70
7.3.18	D-DT-6090	<u>Compression Type</u>				
7.3.18.1		TBCT 120/26 C1 0DG	each	Quotation	R	190.70
7.3.18.2		TBCT 120/38 C1 0DG	each	Quotation	R	190.70
7.3.18.3		TBCT 120/38 C2 0DG	each	Quotation	R	190.70
7.3.19	D-DT-6091	<u>Compression Type</u>				
7.3.19.1		TBCT 80/38 C2	each	Quotation	R	190.70
7.3.20	D-DT-6093	<u>Expansion Type</u>				
7.3.20.1		TBFX 120-127FS 127PCD	each	Quotation	R	190.70
Item 7D Subtotal						
Item No.	Refer	Description of the item	Unit			
7E		INSTALLATION OF EQUIPMENT cont.		Supply	Install/Erect	
7.3.21	D-DT-6116	<u>Tube Bus Coupler Type</u>				
7.3.21.1		TBC 120/120	each	Quotation	R	190.70

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7.3.22	D-DT-6117	<u>Bus Palm Tap-Off Type</u>				
7.3.22.1		TBPT 80	each	Quotation	R	190.70
7.3.22.2		TBPT 120	each	Quotation	R	190.70
7.3.23	D-DT-6118	<u>Tube Sliding Support Type</u>				
7.3.23.1		TBSS120/127	each	Quotation	R	169.17
7.3.24	D-DT-6119	<u>Tap -Off Compression Type</u>				
7.3.24.1		TBTC 120/26 C1	each	Quotation	R	190.70
7.3.24.2		TBTC 120/38 C1	each	Quotation	R	190.70
7.3.25	Non-Stock	<u>Stud Mounted Expansion Type</u>				
7.3.25.1	McWade: C26103	TBHXS 120/38	each	Quotation	R	190.70
7.3.26	D-DT-8019	<u>Transformer Clamp</u>				
7.3.26.1		Black Polypropylene cable clamp	each	Quotation	R	43.06
7.3.26.6	D-DT-6029s2	CLAMP, F/SUPP 26.5mm KCP 26/127	each	Quotation	R	178.39
7.3.26.7	D-DT-6018s5	CLAMP, B/COMP 26.5mm PALM 0DG SPC13	each	Quotation	R	178.39
7.3.26.8	D-DT-6006s2	CLAMP, B/COMP 26.5mm-38mm 0DG KC2	each	Quotation	R	178.39
7.3.26.9	D-DT-6002s2	CLAMP, CROSS 26.5mm - 26mm K2	each	Quotation	R	178.39
7.3.26.10	D-DT 6115	CLAMP,PEG AL CENT 26.5mm EPC-26	each	Quotation	R	178.39
7.3.26.11	D-DT-6018	CLAMP B/COMP 26.5mm PALM 0DG EPC-A	each	Quotation	R	178.39

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7.3.26.12	D-DT-6018	CLAMP B/COMP 26.5mm PALM 45DG EPC-B	each	Quotation	R	178.39
7.3.26.13	D-DT-6119s1	CLAMP, TUBE TAP-OFF TBTC120/C1-26	each	Quotation	R	178.39
7.3.26.14	D-DT-6006s6	CLAMP, B/COMP 26.5mm-38mm 45DG KC6	each	Quotation	R	178.39
7.3.26.15	D-DT-6090s3	CLAMP, T S/COMP TBCT-120/26C1 0DEG	each	Quotation	R	178.39
7.3.26.16	D-DT-6116	CLAMP, TUBE TBC 120/120	each	Quotation	R	178.39
7.3.26.17	D-DT-6118s1	CLAMP, TUBE TBSS 120/127	each	Quotation	R	178.39
7.3.26.18	D-DT-6086s2	CLAMP, BUS COUPLER TBFC120-127	each	Quotation	R	147.64
7.3.26.19	D-DT-6002s2	CLAMP, CROSS 26.5mm-38mm K4	each	Quotation	R	178.39
7.3.26.20	D-DT-6006s1	CLAMP, B/COMP 26.5mm – 26mm 0DG KC1	each	Quotation	R	178.39
7.3.26.21	D-DT-6002s3	CLAMP CROSS 16.3mm – 38mm K3	each	Quotation	R	178.39
7.3.26.22	D-DT-6006s3	CLAMP, B/COMP 38.3mm – 38mm 0DG KC3	each	Quotation	R	178.39
7.3.26.23	D-DT-6090s2	CLAMP, S/COMP TBCT80/38/C1 0DG	each	Quotation	R	178.39
7.3.26.24	D-DT-6086s3	CLAMP, BUS COUPLER TBFC80-76	each	Quotation	R	147.64
7.3.26.25	D-DT-6086s1	CLAMP, BUS COUPLER TBFC80-76	each	Quotation	R	119.90
7.3.26.26	D-DT 6119s3	CLAMP, TUBE TAP-OFF TBTC80/C1-38	each	Quotation	R	178.39
7.3.26.27	D-DT-6006s4	CLAMP B/COMP 38.3mm – 38mm 45DG KC4	each	Quotation	R	178.39
7.3.26.28	D-DT-6010s2	CLAMP, T/COMP 38.3mm – 38.3mm 0DG TC10	each	Quotation	R	178.39

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7.3.26.29	D-DT-6115	CLAMP, PEG AL BULL 38.3mm EPC-38	each	Quotation	R	178.39
7.3.26.30	D-DT-6010s4	CLAMP, T/COMP 16.3mm-38.3mm TC15	each	Quotation	R	178.39
7.3.26.31	D-DT-6099s1	CLAMP T R12-19mm – T12-19mm UT2	each	Quotation	R	147.64
7.3.26.32	D-DT-3007	CLAMP, THIMBLE CLEV A/ALLOY 40kN	each	Quotation	R	99.41
7.3.26.33	D-DT 7009	CLAMP, SUSP PIVOTED 25.0-40.0 M14 M6A	each	Quotation	R	102.49
7.3.26.34	D-DT-6042s2	CLAMP PISTOL 4B 30mm-40mm	each	Quotation	R	120.94
7.3.26.35	D-DT-3007	CLAMP, THIMBLE CLEV A/ALLOY 40kN	each	Quotation	R	99.41
7.4		<u>Stringing and Conductor</u> Supply, Transport to site and Install the following tube and conductor:				
7.4.1	D-DT-4323	Aluminium Tube 12m x 120mm x 4mm for use on 132kV Busbar and Transverse Isolators	each	Quotation	R	1 267.23
7.4.2	D-DT-4802	Aluminium Tube 12mx120mmx4mm (4.5 tubes=54m) Tube to be cut into lengths of 6m for use on 22kV Road crossing	each	Quotation	R	1 267.23
7.4.3	D-DT-4648	Aluminium Tube 12mx120mmx4mm. (1.5 tubes=18m) Tube to be cut into 2m lengths for use on 22kV busbar cable end support	each	Quotation	R	1 267.23
7.4.4	D-DT-3136	Stringers and droppers – Bull	each	Quotation	R	86.13
7.4.5	D-DT-3136	Stringers and droppers – Bull Insulated	m	Quotation	R	86.13
7.4.6	D-DT-3136	Stringers and droppers – Centipede inclusive of vibration damping in tubes	m	Quotation	R	53.51
7.4.7	D-DT-3136	Stringers and droppers – Hornet Insulated	m	Quotation	R	26.44

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Item 7E Subtotal					
Item No.	Refer	Description of the item	Unit	Supply	Install/Erect
7F	2-NT/769 Sheet 4	INSTALLATION OF EQUIPMENT cont.			
7.5		Lighting/lightning masts: Supply, Transport to site and Install the following equipment:			
7.5.1	D-DT-6105	Lamp, Flood Light - 400W/230V HPS	each	Quotation	R 68.89
7.5.2	D-DT-6104	Holder Floodlight Lamp - 400/250W Note: All masts to be supplied complete with wiring and circuit breaker etc.	each	Quotation	R 301.44
7.5.3	D-DT-3128	1kV 4C 4SQ Cu BVX4ECV Cable	m	Quotation	R 18.45
7.5.4	D-DT-3070	Cable Glands (Cable Gland Adjust No. 1)	each	Quotation	R 35.13
7.5.5		Photo cell - Day night switch to be installed for all yard lights	each	Quotation	R 66.43
7.6		Pipe for Lighting: Supply, Transport to site and Install the following equipment.			
7.6.1	D-DT-5217 Sheet 6	PVC pipes, 50mm diameter (used in foundation, 3m per foundation)	m	Quotation	R 13.53
Subtotal Item 7F					

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Item No.	Refer	Description of the item	Unit		
				Supply	Install/Erect
8		SUBSTATION FENCING			
8.1	D-DT-5237 sheet 1 & 2	Supply, Transport to site and Install a new 2.4m Steel Palisade Fence	m	Quotation	R 218.99
		Supply, Transport to site and Install a new 2.4m Steel Clearview Fence	m	Quotation	R 350.63
8.2	D-DT-5237 Sheet 1	Supply, Transport to site and Install double leaf gates (5m)	each	Quotation	R 2 276.10
		Supply, Transport to site and Install double leaf gates (5m) for Clearview	each	Quotation	R 2 399.13
8.3	D-DT-5237 Sheet 1	Supply, Transport to site and Install a personnel gate	each	Quotation	R 1 168.80
8.4	0.54/398 rev. 9	Supply, Transport to site and Install a new barbed wire boundary fence around the area provided for future expansion of the substation.	m	Quotation	R 116.87
8.5	0.54/398 rev. 9	Supply, Transport to site and Install an insulating panel/fence. This is 4m of barbed wire boundary fence, using wooden poles for posts, between the substation fence and the normal barbed wire boundary fence, on both sides. Please Note: This insulating fence should not be connected to, thus insulated from, the substation earth grid, the ground or the substation fence and should have gaps of 200mm between the substation fence and the wire mesh fence.	m	Quotation	R 67.67
Item 8 Subtotal					
Item No.	Refer	Description of the item	Unit		
				Supply	Install/Erect

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9		SUBSTATION LABELS AND SIGNS				
9.1	D-DT-5047	<u>Equipment Labelling</u>				
9.1.1		Supply, Transport to site and Install outdoor equipment labels as specified in Volume 4, 2.5 page 23 – 25.	each	Quotation	R	123.03
9.2	D-DT-6114	<u>Phase Labels</u>				
9.2.1		Phase marker plate Blue/Red/White	each	Quotation	R	59.06
9.2.2		Phase marker plate bracket	each	Quotation	R	34.45
9.3		<u>Signs</u> Supply, Transport to site and Attach to Security Fence and Gates according to Eskom specification. Contractor to ensure that signs are attached at the correct positions / places. Refer to SCSASABK3 REV. 0 p.26 to 28				
9.3.1	D-DT 6072	Sign, ABC - Unauthorised Entry & Interfering	each	Quotation	R	60.74
9.3.2	D-DT-6073	Sign, DE - Sign Fire First Aid	each	Quotation	R	83.05
9.3.3	D-DT 6074	Sign, F - Prohibitive Fence and Gate	each	Quotation	R	51.52
9.3.4	D-DT-6075	Sign, G - Hard Hat Area	each	Quotation	R	51.52
9.3.5	D-DT-5047	Gate number 1 to 5	each	Quotation	R	64.60
9.3.6	D-DT 6112	Sign, DCSS 1 – Battery Room	each	Quotation	R	76.44
9.3.7	D-DT 6112	Sign, DCSS 2 – Battery Cabinet	each	Quotation	R	81.00
9.3.8	D-DT 6112	Sign, DCSS 3 – Combined Battery Room	each	Quotation	R	84.89
9.3.9	D-DT-6113	Sign, GA 19 – Informative - Eye Wash	each	Quotation	R	86.13

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9.3.10	D-DT-6113	Sign, GA 20 – Informative – Emergency Shower	each	Quotation	R	83.05
9.3.11	D-DT-6113	Sign, PV 5 – Drinking Water Prohibitive	each	Quotation	R	83.05
Item 9 Subtotal						
Item No.	Refer	Description of the item	Unit			
				Supply	Install/Erect	
10		DISMANTLING				
10.1		Remove trench covers	m	R 0.00	R	83.05
10.2		Remove yard stone and set aside for re-use	m ²	R 0.00	R	55.36
10.3		Remove cables	m	R 0.00	R	15.41
10.4		Demolish foundations and cart away	ea	R 0.00	R	2 146.30
10.5		Disassemble and remove steelwork	ea	R 0.00	R	1 696.30
10.6		Remove 11 -44kv S/arr, insulator, etc	ea	R 0.00	R	512.43
10.7		Remove 11 - 44kV CT, VT, small equipment	ea	R 0.00	R	707.44
10.8		Remove 11 - 44kV Breaker, NEC, large equipment (indoor breakers)	ea	R 0.00	R	707.44
10.9		Remove 66 - 132kV S/arr, insulator, etc	ea	R 0.00	R	707.44
10.10		Remove 66 - 132kV CT, VT, small equipment	ea	R 0.00	R	707.44

