

PROJECT NAME:		START DATE:
CONTRACTOR:		END DATE:
CONTRACT #:		
PO NUMBER:		Number of connections
SUMMARY PAGE		0
SECTION	DESCRIPTION	GRAND TOTAL
A	PRELIMINARY AND GENERAL ITEMS	R 0.00
B	BUSH CLEARING & TREE FELLING	R 0.00
C	EXCAVATIONS	R 0.00
D	PLANTING OF POLES	R 0.00
E	Single Phase MV Structure (DOWNWIRE EXCL BUT BONDING INCL)	R 0.00
F	ASSEMBLE MV STAYS	R 0.00
G	ASSEMBLE SINGLE PHASE LV STRUCTURES	R 0.00
H	ASSEMBLE LV STAYS	R 0.00
I	POLE TOP BOX INSTALLATION	R 0.00
J	CONDUCTOR STRINGING (TENSION, REGULATE & BIND IN)	R 0.00
K	EQUIPMENT INSTALLATION	R 0.00
L	EARTHING INSTALLATION	R 0.00
M	SERVICE CONNECTION INSTALLATION	R 0.00
N	SERVICE CONDUCTOR INSTALLATION	R 0.00
O	UNDERGROUND CABLE INSTALLATION	R 0.00
P	MV/LV CABLE TERMINATION	R 0.00
Q	CABLE JOINT	R 0.00
R	EQUIPMENT DISMANTLING	R 0.00
S	LABELLING	R 0.00
T	EQUIPMENT TESTING	R 0.00
U	AS - BUILTS	R 0.00
V	MISCELLANEOUS	R 0.00
W	TRANSPORT	R 0.00
X	LABOUR ONLY	R 0.00
Y	INFILLS	R 0.00
Z	ADHOC MATERIAL	R 0.00
TOTAL EXCLUDING 15% VAT		R 0.00

15% VAT	R 0.00
TOTAL INCLUDING 15% VAT	R 0.00
COST PER CONNECTION	#DIV/0!

PROJECT NAME:

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Bill No:1	PRELIMINARY AND GENERAL ITEMS			SCOPE			
No	DESCRIPTION			UNIT	QTY	RATE	AMOUNT
A	FIXED CHARGE ITEMS						
A.1	Site Establishment:	The Contractor shall establish the site camp and maintain throughout the construction period and allow for removal of such upon completion of Works. The Eskom Representative reserves the right to negotiate the rates for rental arrangements based on the project scope and magnitude.					
A.1.1.		Office and Meeting Room complete as per P&G's Guideline	Sum		R 21,228.83	R 0.00	
A.1.2.		Stores	Sum		R 18,437.64	R 0.00	
A.1.3.		Sanitation	Sum		R 2,684.55	R 0.00	
A.1.4.		Electricity	Sum		R 2,982.83	R 0.00	
A.1.5.		Supply and Install Diamond mesh fencing at 1.8 meters high	m		R 225.88	R 0.00	
A.1.6.		Supply and Install Diamond mesh Lockable Gate 1.8m high x 3.6m wide	each		R 2,591.00	R 0.00	
A.1.7.		Project Preparation	Sum		R 29,592.89	R 0.00	
A.2.	Sign Board Labour						
A.2.1		Contractor shall erect on site, maintain throughout the construction duration(Safety)	each		R 499.18	R 0.00	
A.2.2		Project sign board	each		R 4,233.56	R 0.00	
A.4.	Health and Safety measures (In terms of 34-333)	Safety & Health, Environmental					
A.4.1		Compliance with OH&S Act & Construction Regulations.	Sum		R 39,308.33	R 0.00	
A.5.	Materials Management						
A.5.1		The Contractor shall make allowance to receive at Eskom stores, offload and stack the free-issue materials supplied to the contractor.	Sum		R 13,558.34	R 0.00	
A.6.	Contractual requirements	Comply ,maintain all insurance and statutory contributions, etc.					
A.6.1		Allowance to Comply ,maintain all insurance and statutory contributions, etc. (Actual cost will be paid at the end of the project and proof of policy must be provided and must be compliant to contractual requirements)	Sum		cost + 5% fee	R 0.00	
		Sub-Total A					R 0.00

B.		TIME RELATED ITEMS					
B.1	Site Establishment						
B.1.2.		Site office 6m x 3m with aircon	Weeks		R 2,056.30	R 0.00	
B.1.3.		Site Storage 6m x 3m	Weeks		R 1,330.55	R 0.00	
B.1.4.		Water	Weeks		R 508.44	R 0.00	
B.1.5.		Sanitation (service)	Weeks		R 1,715.13	R 0.00	
B.1.6.		Electricity (Eskom/Munic supply)	Weeks		R 379.63	R 0.00	
B.1.7.		Electricity (Generator 6.5kVA)	Weeks		R 3,132.84	R 0.00	
B.2	Accommodation	Accommodation Allowance is for the Contractors Staff excluding the casual labourers which are assumed to be residing in the area where the works are executed.					
B.2.1.		Staff Accommodation Allowance	Weeks		R 1,491.42	R 0.00	
B.3	Security						
B.3.1.		Security on site - 24 Hour Unarmed Security (Must be registered with the appropriate body)	Weeks		cost + 5% fee inline with PSIRA	R 0.00	
B.4.	Labour	The Contractor need to submit Weekly Time Sheets for all hourly compensation claims and a Daily attendance register					
B.4.1.		<i>Supervisor per team</i>	hourly		R 120.44	R 0.00	
B.4.2.		<i>Construction Manager (SACPMP Registered)</i>	hourly		R 245.50	R 0.00	
B.4.3.		<i>Storeman (Storeman is required to reconcile and quantify All material on site including Eskom supplied material using the correct material return to stores forms. The Storeman shall adhere to the implementation and maintenance plan for Materials Management System for the duration of the contract).</i>	hourly		R 69.01	R 0.00	
B.4.4.		Community Liaison Officer	Daily (Max)		R 423.36	R 0.00	
B.4.5.		Safety Officer (SACPMP Registered)	hourly		R 168.17	R 0.00	
					Sub-Total B	R 0.00	
					Total P & G's Carried To Summary	R 0.00	

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BILL OF ACTIVITIES						
ITEM	REFERENCE DRAWING	DESCRIPTION	UNIT	LABOUR RATE	LABOUR TOTAL	GRAND TOTAL
PRELIMINARY AND GENERAL ITEMS						
SUB-TOTAL A						
B BUSH CLEARING & TREE FELLING						
In the event where the contractor is required to cut, remove and clear trees on site. This activity shall be used to execute such work provided that the quotation submitted is from a contractor who meets all the necessary requirements for Bush Clearing plus fee.				ACCEPTED QUOTE	5%	
1		Bush Clearing and Tree Felling (Scattered Formation)	m	R 0.00	R 0.00	R 0.00
2		Bush Clearing and Tree Felling (Dense Formation)	m2	R 0.00	R 0.00	R 0.00
SUB-TOTAL B						
R 0.00						
C EXCAVATIONS						
Excavate only as per Eskom Standard for Holes and Trenches for Poles, Stays and Struts. All material will be elsewhere measured.						
1 STAYS & STRUTS						
1.1	D-DT-0350	LV Stay Back-Actor or Hand	Each	R 214.10	R 0.00	R 0.00
1.2	D-DT-0350	LV Stay auger	Each	R 1,580.13	R 0.00	R 0.00
1.3	D-DT-0350	LV Strut Back-Actor or Hand	Each	R 214.10	R 0.00	R 0.00
1.4	D-DT-0350	LV Strut auger	Each	R 1,580.13	R 0.00	R 0.00
1.5	D-DT-0337	LV Short Strut Back-Actor or Hand	Each	R 214.10	R 0.00	R 0.00
1.6	D-DT-0337	LV Short Strut auger	Each	R 1,580.13	R 0.00	R 0.00
1.7	D-DT-0350	MV Stay Back-Actor or Hand	Each	R 234.54	R 0.00	R 0.00
1.8	D-DT-0350	MV Stay auger	Each	R 1,594.15	R 0.00	R 0.00
1.9	D-DT-0350	MV Strut Back-Actor or Hand	Each	R 167.74	R 0.00	R 0.00
1.10	D-DT-0350	MV Strut auger	Each	R 1,594.15	R 0.00	R 0.00
2 WOOD POLES						
2.1	D-DT-0330	5m Pole Wood Back-Actor or Hand (1.0m Deep)	Each	R 167.74	R 0.00	R 0.00
2.2	D-DT-0330	5m Pole Wood auger (1.0m Deep)	Each	R 1,215.49	R 0.00	R 0.00
2.3	D-DT-0330	5m Pole Wood Hard Rock Drilling (1.0m Deep)	Each	R 1,070.36	R 0.00	R 0.00
2.4	D-DT-0330	5m Pole Wood Back-Actor or Hand (1.5m Deep)	Each	R 218.04	R 0.00	R 0.00
2.5	D-DT-0330	5m Pole Wood auger (1.5m Deep)	Each	R 1,580.13	R 0.00	R 0.00
2.6	D-DT-0330	5m Pole Wood Hard Rock Drilling (1.5m Deep)	Each	R 1,498.50	R 0.00	R 0.00
2.7	D-DT-0330	7m Pole Wood Back-Actor or Hand (1.3m Deep)	Each	R 268.37	R 0.00	R 0.00
2.8	D-DT-0330	7m Pole Wood auger (1.3m Deep)	Each	R 1,805.87	R 0.00	R 0.00
2.9	D-DT-0330	7m Pole Wood Hard Rock Drilling (1.3m Deep)	Each	R 1,712.57	R 0.00	R 0.00
2.10	D-DT-1866	8m Wooden Pole/X-Arm 160-179 Top Diameter Back-Actor or Hand (1.3m Deep)	Each	R 251.61	R 0.00	R 0.00
2.11	D-DT-1866	8m Wooden Pole/X-Arm 160-179 Top Diameter auger (1.3m Deep)	Each	R 1,823.24	R 0.00	R 0.00
2.12	D-DT-1866	8m Wooden Pole/X-Arm 160-179 Top Diameter Hard Rock Drilling (1.3m Deep)	Each	R 1,926.65	R 0.00	R 0.00
2.13	D-DT-0330	9m Pole Wood Back-Actor or Hand (1.5m Deep)	Each	R 335.48	R 0.00	R 0.00
2.14	D-DT-0330	9m Pole Wood auger (1.5m Deep)	Each	R 2,568.86	R 0.00	R 0.00
2.15	D-DT-0330	9m Pole Wood Hard Rock Drilling (1.5m Deep)	Each	R 2,756.65	R 0.00	R 0.00
2.16	D-DT-0330	10m Pole Wood Back-Actor or Hand (1.7m Deep)	Each	R 369.03	R 0.00	R 0.00
2.17	D-DT-0330	10m Pole Wood auger (1.7m Deep)	Each	R 2,674.08	R 0.00	R 0.00
2.18	D-DT-0330	10m Pole Wood Hard Rock Drilling (1.7m Deep)	Each	R 2,880.03	R 0.00	R 0.00
2.19	D-DT-0330	11m Pole Wood Back-Actor or Hand (1.8m Deep)	Each	R 402.97	R 0.00	R 0.00
2.20	D-DT-0330	11m Pole Wood auger (1.8m Deep)	Each	R 2,917.17	R 0.00	R 0.00
2.21	D-DT-0330	11m Pole Wood Hard Rock Drilling (1.8m Deep)	Each	R 3,046.96	R 0.00	R 0.00
2.22	D-DT-0330	12m Pole Wood Back-Actor or Hand (2.0m Deep)	Each	R 335.48	R 0.00	R 0.00
2.23	D-DT-0330	12m Pole Wood auger (2.0m Deep)	Each	R 3,786.54	R 0.00	R 0.00
2.24	D-DT-0330	12m Pole Wood Hard Rock Drilling (2.0m Deep)	Each	R 2,568.86	R 0.00	R 0.00
2.25	D-DT-0330	13m - 16m Pole Wood Back-Actor or Hand (2.2m Deep)	Each	R 369.03	R 0.00	R 0.00
2.26	D-DT-0330	13m - 16m Pole Wood auger (2.2m Deep)	Each	R 2,674.08	R 0.00	R 0.00
2.27	D-DT-0330	13m - 16m Pole Wood Hard Rock Drilling (2.2m Deep)	Each	R 2,782.93	R 0.00	R 0.00
2.30	D-DT-0330	18m Pole Wood Back-Actor or Hand (2.4m Deep)	Each	R 402.97	R 0.00	R 0.00
2.31	D-DT-0330	18m Pole Wood auger (2.4m Deep)	Each	R 2,917.17	R 0.00	R 0.00
2.32	D-DT-0330	18m Pole Wood Hard Rock Drilling (2.4m Deep)	Each	R 3,251.38	R 0.00	R 0.00
3 CONCRETE POLES						
3.1	D-DT-0330	11m Pole Concrete Back-Actor or Hand (1.8m Deep)	Each	R 301.91	R 0.00	R 0.00
3.2	D-DT-0330	11m Pole Concrete auger (1.8m Deep)	Each	R 2,187.88	R 0.00	R 0.00
3.3	D-DT-0330	11m Pole Concrete Hard Rock Drilling (1.8m Deep)	Each	R 2,354.79	R 0.00	R 0.00
3.4	D-DT-0330	12m Pole Concrete Pole Back-Actor or Hand (2m Deep)	Each	R 335.48	R 0.00	R 0.00
3.5	D-DT-0330	12m Pole Concrete Pole auger (2m Deep)	Each	R 3,786.54	R 0.00	R 0.00
3.6	D-DT-0330	12m Pole Concrete Hard Rock Drilling (1.0m Deep)	Each	R 2,568.86	R 0.00	R 0.00
3.7	D-DT-0330	13m Pole Concrete Back-Actor or Hand (2.2m Deep)	Each	R 369.03	R 0.00	R 0.00
3.8	D-DT-0330	13m Pole Concrete auger (2.2m Deep)	Each	R 2,674.08	R 0.00	R 0.00
3.9	D-DT-0330	13m Pole Concrete Hard Rock Drilling (1.0m Deep)	Each	R 2,782.93	R 0.00	R 0.00
3.10	D-DT-0330	14m Pole Concrete Back-Actor or Hand (2.3m Deep)	Each	R 385.78	R 0.00	R 0.00
3.11	D-DT-0330	14m Pole Concrete auger (2.3m Deep)	Each	R 2,795.62	R 0.00	R 0.00
3.12	D-DT-0330	14m Pole Concrete Hard Rock Drilling (2.3m Deep)	Each	R 2,997.00	R 0.00	R 0.00
4 Heavy Conductor Wood Poles						
4.1	D-DT-0330	11m Pole Back-Actor or Hand - 1800mm Deep x 700mm Diameter	Each	R 301.91	R 0.00	R 0.00
4.2	D-DT-0330	11m Pole Back-Actor or Hand - 1800mm Deep x 800mm Diameter	Each	R 301.91	R 0.00	R 0.00
4.3	D-DT-0330	11m Pole Back-Actor or Hand - 1800mm Deep x 1000mm Diameter	Each	R 301.91	R 0.00	R 0.00
4.4	D-DT-0330	11m Pole Back-Actor or Hand - 1800mm Deep x 1000mm Diameter - Add 6 Pockets of Cement to Moistened Excavated Soil	Each	R 933.32	R 0.00	R 0.00
4.5	D-DT-0330	11m Pole Back-Actor or Hand - 1800mm Deep x 1000mm Diameter - Clay and Turf - Add 8 Pockets of Cement to Moistened Imported Soil	Each	R 1,143.79	R 0.00	R 0.00
4.6	D-DT-0330	11m Pole Back-Actor or Hand - 1800mm Deep x 1200mm Diameter - Add 6 Pockets of Cement to Moistened Excavated Soil	Each	R 933.32	R 0.00	R 0.00
4.7	D-DT-0330	11m Pole Back-Actor or Hand - 1800mm Deep x 1200mm Diameter - Clay and Turf - Add 8 Pockets of Cement to Moistened Imported Soil	Each	R 933.32	R 0.00	R 0.00
4.8	D-DT-0330	11m Pole Back-Actor or Hand - 1800mm Deep x 1800mm Diameter - Add 6 Pockets of Cement to Moistened Excavated Soil	Each	R 933.32	R 0.00	R 0.00
4.9	D-DT-0330	11m Pole Back-Actor or Hand - 1800mm Deep x 1800mm Diameter - Clay and Turf - Add 8 Pockets of Cement to Moistened Imported Soil	Each	R 1,143.79	R 0.00	R 0.00
4.10	D-DT-0330	11m Pole Back-Actor or Hand - 1800mm Deep x 1800mm Diameter - Add 12 Pockets of Cement to Moistened/Imported Excavated Soil	Each	R 1,598.29	R 0.00	R 0.00
4.11	D-DT-0330	11m Pole Back-Actor or Hand - 1800mm Deep x 2000mm Diameter - Add 12 Pockets of Cement to Moistened/Imported Excavated Soil	Each	R 1,598.29	R 0.00	R 0.00
4.12	D-DT-0330	11m Pole Back-Actor or Hand - 1800mm Deep x 2200mm Diameter - Add 12 Pockets of Cement to Moistened/Imported Excavated Soil	Each	R 1,598.29	R 0.00	R 0.00
4.13	D-DT-0330	11m Pole Back-Actor or Hand - 1800mm Deep x 2500mm Diameter - Add 12 Pockets of Cement to Moistened/Imported Excavated Soil	Each	R 1,598.29	R 0.00	R 0.00
4.14	D-DT-0330	12m Pole Back-Actor or Hand - 2000mm Deep x 700mm Diameter	Each	R 372.75	R 0.00	R 0.00
4.15	D-DT-0330	12m Pole Back-Actor or Hand - 2000mm Deep x 800mm Diameter	Each	R 372.75	R 0.00	R 0.00
4.16	D-DT-0330	12m Pole Back-Actor or Hand - 2000mm Deep x 1000mm Diameter	Each	R 372.75	R 0.00	R 0.00
4.17	D-DT-0330	12m Pole Back-Actor or Hand - 2000mm Deep x 1000mm Diameter - Add 6 Pockets of Cement to Moistened Excavated Soil	Each	R 1,004.16	R 0.00	R 0.00
4.18	D-DT-0330	12m Pole Back-Actor or Hand - 2000mm Deep x 1000mm Diameter - Clay and Turf - Add 8 Pockets of Cement to Moistened Imported Soil	Each	R 1,214.63	R 0.00	R 0.00
4.19	D-DT-0330	12m Pole Back-Actor or Hand - 2000mm Deep x 1200mm Diameter - Add 6 Pockets of Cement to Moistened Excavated Soil	Each	R 1,004.16	R 0.00	R 0.00

5.26	D-DT-0330	12m Pole Back-Actor or Hand - 2000mm Deep x 2000mm Diameter - Add 6 Pockets of Cement to Moistened Excavated Soil	Each	R 1,635.56	R 0.00	R 0.00
5.27	D-DT-0330 & 240-758831148	12m Pole Back-Actor or Hand - 2000mm Deep x 2000mm Diameter - Clay and Turf - Add 8 Pockets of Cement to Moistened Imported Soil	Each	R 385.78	R 0.00	R 0.00
5.28	D-DT-0330 & 240-758831148	12m Pole Back-Actor or Hand - 2000mm Deep x 2000mm Diameter Add 12 Pockets of Cement to Moistened/Imported Excavated Soil	Each	R 385.78	R 0.00	R 0.00
5.29	D-DT-0330 & 240-758831148	12m Pole Back-Actor or Hand - 2000mm Deep x 2500mm Diameter Add 12 Pockets of Cement to Moistened/Imported Excavated Soil	Each	R 385.78	R 0.00	R 0.00
5.30	D-DT-0330 & 240-758831148	12m Pole Back-Actor or Hand - 2000mm Deep x 3000mm Diameter - Add 12 Pockets of Cement to Moistened/Imported Excavated Soil	Each	R 1,017.19	R 0.00	R 0.00
5.31	D-DT-0330	13m - 14m Pole Back-Actor or Hand - 2200mm Deep x 700mm Diameter	Each	R 1,227.66	R 0.00	R 0.00
5.32	D-DT-0330	13m - 14m Pole Back-Actor or Hand - 2200mm Deep x 900mm Diameter	Each	R 1,017.19	R 0.00	R 0.00
5.33	D-DT-0330	13m - 14m Pole Back-Actor or Hand - 2200mm Deep x 1000mm Diameter	Each	R 1,227.66	R 0.00	R 0.00
5.34	D-DT-0330	13m - 14m Pole Back-Actor or Hand - 2200mm Deep x 1200mm Diameter - Add 6 Pockets of Cement to Moistened Excavated Soil	Each	R 1,017.19	R 0.00	R 0.00
5.35	D-DT-0330 & 240-758831148	13m - 14m Pole Back-Actor or Hand - 2200mm Deep x 1200mm Diameter - Clay and Turf - Add 8 Pockets of Cement to Moistened Imported Soil	Each	R 1,227.66	R 0.00	R 0.00
5.36	D-DT-0330	13m - 14m Pole Back-Actor or Hand - 2200mm Deep x 1250mm Diameter - Add 6 Pockets of Cement to Moistened Excavated Soil	Each	R 1,648.59	R 0.00	R 0.00
5.37	D-DT-0330 & 240-758831148	13m - 14m Pole Back-Actor or Hand - 2200mm Deep x 1250mm Diameter - Clay and Turf - Add 8 Pockets of Cement to Moistened Imported Soil	Each	R 1,648.59	R 0.00	R 0.00
5.38	D-DT-0330	13m - 14m Pole Back-Actor or Hand - 2200mm Deep x 1500mm Diameter	Each	R 1,648.59	R 0.00	R 0.00
5.39	D-DT-0330	13m - 14m Pole Back-Actor or Hand - 2200mm Deep x 1500mm Diameter - Add 6 Pockets of Cement to Moistened Excavated Soil	Each	R 1,648.59	R 0.00	R 0.00
5.40	D-DT-0330 & 240-758831148	13m - 14m Pole Back-Actor or Hand - 2200mm Deep x 1500mm Diameter - Clay and Turf - Add 8 Pockets of Cement to Moistened Imported Soil	Each	R 1,648.59	R 0.00	R 0.00
5.41	D-DT-0330	13m - 14m Pole Back-Actor or Hand - 2200mm Deep x 2000mm Diameter - Add 6 Pockets of Cement to Moistened Excavated Soil	Each	R 1,648.59	R 0.00	R 0.00
5.42	D-DT-0330 & 240-758831148	13m - 14m Pole Back-Actor or Hand - 2200mm Deep x 2000mm Diameter - Clay and Turf - Add 8 Pockets of Cement to Moistened Imported Soil	Each	R 1,648.59	R 0.00	R 0.00
5.43	D-DT-0330 & 240-758831148	13m - 14m Pole Back-Actor or Hand - 2200mm Deep x 2000mm Diameter Add 12 Pockets of Cement to Moistened/Imported Excavated Soil	Each	R 1,648.59	R 0.00	R 0.00
5.44	D-DT-0330 & 240-758831148	13m - 14m Pole Back-Actor or Hand - 2200mm Deep x 2500mm Diameter Add 12 Pockets of Cement to Moistened/Imported Excavated Soil	Each	R 1,648.59	R 0.00	R 0.00
5.45	D-DT-0330 & 240-758831148	13m - 14m Pole Back-Actor or Hand - 2200mm Deep x 3000mm Diameter - Add 12 Pockets of Cement to Moistened/Imported Excavated Soil	Each	R 1,648.59	R 0.00	R 0.00
6		Free Standing Poles				
6.1	2-WT/0000	9m Pole Free Standing 18kN Back-Actor or Hand (1.5m Deep) - Soil Type 1 & 2	Each	R 377.08	R 0.00	R 0.00
6.2	D-DT-1650	12m Pole Free Standing 8kN Back-Actor or Hand (2.5m Deep) - Soil Type 1 & 2	Each	R 377.08	R 0.00	R 0.00
6.3	D-DT-1650	12m Pole Free Standing 8kN Back-Actor or Hand (2.5m Deep) - Soil Type 3	Each	R 565.63	R 0.00	R 0.00
6.4	D-DT-1650	12m Pole Free Standing 8kN Back-Actor or Hand (2.5m Deep) - Soil Type 4	Each	R 754.17	R 0.00	R 0.00
6.5	D-DT-1651	12m Pole Free Standing 15kN Back-Actor or Hand (2.5m Deep) - Soil Type 1 & 2	Each	R 707.03	R 0.00	R 0.00
6.6	D-DT-1651	12m Pole Free Standing 15kN Back-Actor or Hand (2.5m Deep) - Soil Type 3	Each	R 1,060.55	R 0.00	R 0.00
6.7	D-DT-1651	12m Pole Free Standing 15kN Back-Actor or Hand (2.5m Deep) - Soil Type 4	Each	R 1,414.07	R 0.00	R 0.00
6.8	D-DT-1652	12m Pole Free Standing 27kN Back-Actor or Hand (2.5m Deep) - Soil Type 1 & 2	Each	R 1,272.66	R 0.00	R 0.00
6.9	D-DT-1652	12m Pole Free Standing 27kN Back-Actor or Hand (2.5m Deep) - Soil Type 3	Each	R 1,908.99	R 0.00	R 0.00
6.10	D-DT-1652	12m Pole Free Standing 27kN Back-Actor or Hand (2.5m Deep) - Soil Type 4	Each	R 2,545.32	R 0.00	R 0.00
6.11	D-DT-1653	12m Pole Free Standing 42kN Back-Actor or Hand (2.5m Deep) - Soil Type 1	Each	R 1,979.69	R 0.00	R 0.00
6.12	D-DT-1653	12m Pole Free Standing 42kN Back-Actor or Hand (2.5m Deep) - Soil Type 2	Each	R 1,979.69	R 0.00	R 0.00
6.13	D-DT-1653	12m Pole Free Standing 42kN Back-Actor or Hand (2.5m Deep) - Soil Type 3	Each	R 2,969.54	R 0.00	R 0.00
6.14	D-DT-1653	12m Pole Free Standing 42kN Back-Actor or Hand (2.5m Deep) - Soil Type 4	Each	R 3,959.39	R 0.00	R 0.00
6.15	D-DT-1654	12m Pole Free Standing 58kN Back-Actor or Hand (2.5m Deep) - Soil Type 1	Each	R 2,733.86	R 0.00	R 0.00
6.16	D-DT-1654	12m Pole Free Standing 58kN Back-Actor or Hand (2.5m Deep) - Soil Type 2	Each	R 2,733.86	R 0.00	R 0.00
6.17	D-DT-1654	12m Pole Free Standing 58kN Back-Actor or Hand (2.5m Deep) - Soil Type 3	Each	R 4,100.80	R 0.00	R 0.00
6.18	D-DT-1654	12m Pole Free Standing 58kN Back-Actor or Hand (2.5m Deep) - Soil Type 4	Each	R 4,100.80	R 0.00	R 0.00
6.19	D-DT-1655	12m Pole Free Standing Terminal Back-Actor or Hand (2.5m Deep) - Soil Type 1	Each	R 377.08	R 0.00	R 0.00
6.20	D-DT-1655	12m Pole Free Standing Terminal Back-Actor or Hand (2.5m Deep) - Soil Type 2	Each	R 377.08	R 0.00	R 0.00
6.21	D-DT-1655	12m Pole Free Standing Terminal Back-Actor or Hand (2.5m Deep) - Soil Type 3	Each	R 565.63	R 0.00	R 0.00
6.22	D-DT-1655	12m Pole Free Standing Terminal Back-Actor or Hand (2.5m Deep) - Soil Type 4	Each	R 754.17	R 0.00	R 0.00
6.23	D-DT-1656	12m Pole Free Standing 73kN Back-Actor or Hand (2.5m Deep) - Soil Type 1	Each	R 3,440.90	R 0.00	R 0.00
6.24	D-DT-1656	12m Pole Free Standing 73kN Back-Actor or Hand (2.5m Deep) - Soil Type 2	Each	R 3,440.90	R 0.00	R 0.00
6.25	D-DT-1656	12m Pole Free Standing 73kN Back-Actor or Hand (2.5m Deep) - Soil Type 3	Each	R 5,161.35	R 0.00	R 0.00
6.26	D-DT-1656	12m Pole Free Standing 73kN Back-Actor or Hand (2.5m Deep) - Soil Type 4	Each	R 5,161.35	R 0.00	R 0.00

6.27	D-DT-1657	12m Pole Free Standing 106kN Back-Actor or Hand (2.5m Deep) - Soil Type 1	Each	R 4,996.37	R 0.00	R 0.00
6.28	D-DT-1657	12m Pole Free Standing 106kN Back-Actor or Hand (2.5m Deep) - Soil Type 2	Each	R 4,996.37	R 0.00	R 0.00
6.29	D-DT-1657	12m Pole Free Standing 106kN Back-Actor or Hand (2.5m Deep) - Soil Type 3	Each	R 7,494.56	R 0.00	R 0.00
6.30	D-DT-1650	13m Pole Free Standing 8kN Back-Actor or Hand (2.5m Deep) - Soil Type 1 & 2	Each	R 377.08	R 0.00	R 0.00
6.31	D-DT-1650	13m Pole Free Standing 8kN Back-Actor or Hand (2.5m Deep) - Soil Type 3	Each	R 565.63	R 0.00	R 0.00
6.32	D-DT-1650	13m Pole Free Standing 8kN Back-Actor or Hand (2.5m Deep) - Soil Type 4	Each	R 754.17	R 0.00	R 0.00
6.33	D-DT-1651	13m Pole Free Standing 15kN Back-Actor or Hand (2.5m Deep) - Soil Type 1 & 2	Each	R 707.03	R 0.00	R 0.00
6.34	D-DT-1651	13m Pole Free Standing 15kN Back-Actor or Hand (2.5m Deep) - Soil Type 3	Each	R 1,060.55	R 0.00	R 0.00
6.35	D-DT-1651	13m Pole Free Standing 15kN Back-Actor or Hand (2.5m Deep) - Soil Type 4	Each	R 1,414.07	R 0.00	R 0.00
6.36	D-DT-1652	13m Pole Free Standing 27kN Back-Actor or Hand (2.5m Deep) - Soil Type 1 & 2	Each	R 1,272.86	R 0.00	R 0.00
6.37	D-DT-1652	13m Pole Free Standing 27kN Back-Actor or Hand (2.5m Deep) - Soil Type 3	Each	R 1,908.99	R 0.00	R 0.00
6.38	D-DT-1652	13m Pole Free Standing 27kN Back-Actor or Hand (2.5m Deep) - Soil Type 4	Each	R 2,545.32	R 0.00	R 0.00
6.39	D-DT-1653	13m Pole Free Standing 42kN Back-Actor or Hand (2.5m Deep) - Soil Type 1	Each	R 1,979.69	R 0.00	R 0.00
6.40	D-DT-1653	13m Pole Free Standing 42kN Back-Actor or Hand (2.5m Deep) - Soil Type 2	Each	R 1,979.69	R 0.00	R 0.00
6.41	D-DT-1653	13m Pole Free Standing 42kN Back-Actor or Hand (2.5m Deep) - Soil Type 3	Each	R 2,969.54	R 0.00	R 0.00
6.42	D-DT-1653	13m Pole Free Standing 42kN Back-Actor or Hand (2.5m Deep) - Soil Type 4	Each	R 3,959.39	R 0.00	R 0.00
6.43	D-DT-1654	13m Pole Free Standing 58kN Back-Actor or Hand (2.5m Deep) - Soil Type 1	Each	R 2,733.86	R 0.00	R 0.00
6.44	D-DT-1654	13m Pole Free Standing 58kN Back-Actor or Hand (2.5m Deep) - Soil Type 2	Each	R 2,733.86	R 0.00	R 0.00
6.45	D-DT-1654	13m Pole Free Standing 58kN Back-Actor or Hand (2.5m Deep) - Soil Type 3	Each	R 4,100.80	R 0.00	R 0.00
6.46	D-DT-1654	13m Pole Free Standing 58kN Back-Actor or Hand (2.5m Deep) - Soil Type 4	Each	R 4,100.80	R 0.00	R 0.00
6.47	D-DT-1655	13m Pole Free Standing Terminal Back-Actor or Hand (2.5m Deep) - Soil Type 1	Each	R 377.08	R 0.00	R 0.00
6.48	D-DT-1655	13m Pole Free Standing Terminal Back-Actor or Hand (2.5m Deep) - Soil Type 2	Each	R 377.08	R 0.00	R 0.00
6.49	D-DT-1655	13m Pole Free Standing Terminal Back-Actor or Hand (2.5m Deep) - Soil Type 3	Each	R 565.63	R 0.00	R 0.00
6.50	D-DT-1655	13m Pole Free Standing Terminal Back-Actor or Hand (2.5m Deep) - Soil Type 4	Each	R 754.17	R 0.00	R 0.00
6.51	D-DT-1656	13m Pole Free Standing 73kN Back-Actor or Hand (2.5m Deep) - Soil Type 1	Each	R 3,440.90	R 0.00	R 0.00
6.52	D-DT-1656	13m Pole Free Standing 73kN Back-Actor or Hand (2.5m Deep) - Soil Type 2	Each	R 3,440.90	R 0.00	R 0.00
6.53	D-DT-1656	13m Pole Free Standing 73kN Back-Actor or Hand (2.5m Deep) - Soil Type 3	Each	R 5,161.35	R 0.00	R 0.00
6.54	D-DT-1656	13m Pole Free Standing 73kN Back-Actor or Hand (2.5m Deep) - Soil Type 4	Each	R 5,161.35	R 0.00	R 0.00
6.55	D-DT-1657	13m Pole Free Standing 106kN Back-Actor or Hand (2.5m Deep) - Soil Type 1	Each	R 4,996.37	R 0.00	R 0.00
6.56	D-DT-1657	13m Pole Free Standing 106kN Back-Actor or Hand (2.5m Deep) - Soil Type 2	Each	R 4,996.37	R 0.00	R 0.00
6.57	D-DT-1657	13m Pole Free Standing 106kN Back-Actor or Hand (2.5m Deep) - Soil Type 3	Each	R 7,494.56	R 0.00	R 0.00
SUB-TOTAL C						R 0.00
D	PLANTING OF POLES					
Planting including backfilling and compaction are measured here. The costs are also inclusive of plant and equipment required to plant the Structures. Stay, Struts and Flying Stay are elsewhere measured. All backfill material included in price						
1	Soil Type 1					
1.1	D-DT-0058	5m Wooden Pole 80-100mm Top Diameter Soil Type 1	Each	R 153.04	R 0.00	R 0.00
1.2	D-DT-0058	5m Wooden Pole 80-100mm Top Diameter Soil Type 2	Each	R 433.21	R 0.00	R 0.00
1.3	D-DT-0058	5m Wooden Pole 80-100mm Top Diameter Soil Type 3	Each	R 1,199.44	R 0.00	R 0.00
1.4	D-DT-0058	5m Wooden Pole 80-100mm Top Diameter Soil Type 4	Each	R 1,063.97	R 0.00	R 0.00
1.5	D-DT-0066	6m Wooden Pole/X-Arm 160-179 Top Diameter Soil Type 1	Each	R 183.64	R 0.00	R 0.00
1.6	D-DT-0066	6m Wooden Pole/X-Arm 160-179 Top Diameter Soil Type 2	Each	R 247.92	R 0.00	R 0.00
1.7	D-DT-0066	6m Wooden Pole/X-Arm 160-179 Top Diameter Soil Type 3	Each	R 1,679.20	R 0.00	R 0.00
1.8	D-DT-0066	6m Wooden Pole/X-Arm 160-179 Top Diameter Soil Type 4	Each	R 1,276.75	R 0.00	R 0.00
1.9	D-DT-0050	7m Wooden Pole 100-120mm Top Diameter Soil Type 1	Each	R 183.63	R 0.00	R 0.00
1.10	D-DT-0050	7m Wooden Pole 100-120mm Top Diameter Soil Type 2	Each	R 247.91	R 0.00	R 0.00
1.11	D-DT-0050	7m Wooden Pole 100-120mm Top Diameter Soil Type 3	Each	R 1,679.20	R 0.00	R 0.00
1.12	D-DT-0050	7m Wooden Pole 100-120mm Top Diameter Soil Type 4	Each	R 1,489.54	R 0.00	R 0.00
1.13	D-DT-0050	7m Wooden Pole 120-139mm Top Diameter Soil Type 1	Each	R 214.24	R 0.00	R 0.00
1.14	D-DT-0050	7m Wooden Pole 120-139mm Top Diameter Soil Type 2	Each	R 289.22	R 0.00	R 0.00
1.15	D-DT-0050	7m Wooden Pole 120-139mm Top Diameter Soil Type 3	Each	R 1,679.20	R 0.00	R 0.00
1.16	D-DT-0050	7m Wooden Pole 120-139mm Top Diameter Soil Type 4	Each	R 1,489.54	R 0.00	R 0.00
1.17	D-DT-1866	8m Wooden Pole/X-Arm 160-179 Top Diameter Soil Type 1	Each	R 244.86	R 0.00	R 0.00
1.18	D-DT-0050	8m Wooden Pole/X-Arm 160-179 Top Diameter Soil Type 2	Each	R 330.56	R 0.00	R 0.00
1.19	D-DT-0050	8m Wooden Pole/X-Arm 160-179 Top Diameter Soil Type 3	Each	R 1,919.09	R 0.00	R 0.00
1.20	D-DT-0050	8m Wooden Pole/X-Arm 160-179 Top Diameter Soil Type 4	Each	R 1,702.33	R 0.00	R 0.00
1.21	D-DT-0055	9m Wooden Pole 140-159mm Top Diameter Soil Type 1	Each	R 263.47	R 0.00	R 0.00
1.22	D-DT-0055	9m Wooden Pole 140-159mm Top Diameter Soil Type 2	Each	R 355.69	R 0.00	R 0.00
1.23	D-DT-0055	9m Wooden Pole 140-159mm Top Diameter Soil Type 3	Each	R 2,158.97	R 0.00	R 0.00
1.24	D-DT-0055	9m Wooden Pole 140-159mm Top Diameter Soil Type 4	Each	R 1,915.12	R 0.00	R 0.00
1.25	D-DT-0055	9m Wooden Pole 160-179 mm Top Diameter Soil Type 1	Each	R 296.41	R 0.00	R 0.00
1.26	D-DT-0055	9m Wooden Pole 160-179 mm Top Diameter Soil Type 2	Each	R 400.16	R 0.00	R 0.00
1.27	D-DT-0055	9m Wooden Pole 160-179 mm Top Diameter Soil Type 3	Each	R 2,158.97	R 0.00	R 0.00
1.28	D-DT-0055	9m Wooden Pole 160-179 mm Top Diameter Soil Type 4	Each	R 1,915.12	R 0.00	R 0.00
1.29	D-DT-0055	9m Wooden Pole 180-199mm Top Diameter Soil Type 1	Each	R 329.35	R 0.00	R 0.00
1.30	D-DT-0055	9m Wooden Pole 180-199mm Top Diameter Soil Type 2	Each	R 444.62	R 0.00	R 0.00
1.31	D-DT-0055	9m Wooden Pole 180-199mm Top Diameter Soil Type 3	Each	R 2,158.97	R 0.00	R 0.00
1.32	D-DT-0055	9m Wooden Pole 180-199mm Top Diameter Soil Type 4	Each	R 1,915.12	R 0.00	R 0.00
1.33	D-DT-0052	10m Wooden Pole 160-179mm Top Diameter H4 Soil Type 1	Each	R 308.51	R 0.00	R 0.00
1.34	D-DT-0052	10m Wooden Pole 160-179mm Top Diameter H4 Soil Type 2	Each	R 416.49	R 0.00	R 0.00
1.35	D-DT-0052	10m Wooden Pole 160-179mm Top Diameter H4 Soil Type 3	Each	R 2,398.86	R 0.00	R 0.00
1.36	D-DT-0052	10m Wooden Pole 160-179mm Top Diameter H4 Soil Type 4	Each	R 2,127.91	R 0.00	R 0.00
1.37	D-DT-0052	10m Wooden Pole 160-179mm Top Diameter H5 Soil Type 1	Each	R 308.51	R 0.00	R 0.00
1.38	D-DT-0052	10m Wooden Pole 160-179mm Top Diameter H5 Soil Type 2	Each	R 416.49	R 0.00	R 0.00
1.39	D-DT-0052	10m Wooden Pole 160-179mm Top Diameter H5 Soil Type 3	Each	R 2,398.86	R 0.00	R 0.00

1.142	D-DT-0054	14m Wooden Pole 200-219mm Top Diameter H5 Soil Type 2	Each	R 740.29	R 0.00	R 0.00
1.143	D-DT-0054	14m Wooden Pole 200-219mm Top Diameter H5 Soil Type 3	Each	R 3,118.51	R 0.00	R 0.00
1.144	D-DT-0054	14m Wooden Pole 200-219mm Top Diameter H5 Soil Type 4	Each	R 2,766.28	R 0.00	R 0.00
1.145	D-DT-0057	15m Wooden Pole 160-179mm Top Diameter Soil Type 1	Each	R 548.37	R 0.00	R 0.00
1.146	D-DT-0057	15m Wooden Pole 160-179mm Top Diameter Soil Type 2	Each	R 740.29	R 0.00	R 0.00
1.147	D-DT-0057	15m Wooden Pole 160-179mm Top Diameter Soil Type 3	Each	R 3,598.29	R 0.00	R 0.00
1.148	D-DT-0057	15m Wooden Pole 160-179mm Top Diameter Soil Type 4	Each	R 3,191.86	R 0.00	R 0.00
1.149	D-DT-0057	15m Wooden Pole 190-199mm Top Diameter Soil Type 1	Each	R 548.37	R 0.00	R 0.00
1.150	D-DT-0057	15m Wooden Pole 190-199mm Top Diameter Soil Type 2	Each	R 740.29	R 0.00	R 0.00
1.151	D-DT-0057	15m Wooden Pole 190-199mm Top Diameter Soil Type 3	Each	R 3,598.29	R 0.00	R 0.00
1.152	D-DT-0057	15m Wooden Pole 190-199mm Top Diameter Soil Type 4	Each	R 3,191.86	R 0.00	R 0.00
1.153	D-DT-0057	15m Wooden Pole 200-219mm Top Diameter Soil Type 1	Each	R 493.35	R 0.00	R 0.00
1.154	D-DT-0057	15m Wooden Pole 200-219mm Top Diameter Soil Type 2	Each	R 666.01	R 0.00	R 0.00
1.155	D-DT-0057	15m Wooden Pole 200-219mm Top Diameter Soil Type 3	Each	R 3,598.29	R 0.00	R 0.00
1.156	D-DT-0057	15m Wooden Pole 200-219mm Top Diameter Soil Type 4	Each	R 3,191.86	R 0.00	R 0.00
1.157	D-DT-0049	16m Wooden Pole 180-199mm Top Diameter Soil Type 1	Each	R 542.48	R 0.00	R 0.00
1.158	D-DT-0049	16m Wooden Pole 180-199mm Top Diameter Soil Type 2	Each	R 732.35	R 0.00	R 0.00
1.159	D-DT-0049	16m Wooden Pole 180-199mm Top Diameter Soil Type 3	Each	R 3,838.17	R 0.00	R 0.00
1.160	D-DT-0049	16m Wooden Pole 180-199mm Top Diameter Soil Type 4	Each	R 3,404.66	R 0.00	R 0.00
1.161	D-DT-0049	16m Wooden Pole 200-219mm Top Diameter Soil Type 1	Each	R 596.74	R 0.00	R 0.00
1.162	D-DT-0049	16m Wooden Pole 200-219mm Top Diameter Soil Type 2	Each	R 805.60	R 0.00	R 0.00
1.163	D-DT-0049	16m Wooden Pole 200-219mm Top Diameter Soil Type 3	Each	R 3,838.17	R 0.00	R 0.00
1.164	D-DT-0049	16m Wooden Pole 200-219mm Top Diameter Soil Type 4	Each	R 3,404.66	R 0.00	R 0.00
1.165	D-DT-0048	18m Wooden Pole 180-199mm Top Diameter Soil Type 1	Each	R 596.52	R 0.00	R 0.00
1.166	D-DT-0048	18m Wooden Pole 180-199mm Top Diameter Soil Type 2	Each	R 805.31	R 0.00	R 0.00
1.167	D-DT-0048	18m Wooden Pole 180-199mm Top Diameter Soil Type 3	Each	R 4,317.94	R 0.00	R 0.00
1.168	D-DT-0048	18m Wooden Pole 180-199mm Top Diameter Soil Type 4	Each	R 3,830.24	R 0.00	R 0.00
1.169	D-DT-0048	18m Wooden Pole 200-219mm Top Diameter Soil Type 1	Each	R 656.17	R 0.00	R 0.00
1.170	D-DT-0048	18m Wooden Pole 200-219mm Top Diameter Soil Type 2	Each	R 885.83	R 0.00	R 0.00
1.171	D-DT-0048	18m Wooden Pole 200-219mm Top Diameter Soil Type 3	Each	R 4,317.94	R 0.00	R 0.00
1.172	D-DT-0048	18m Wooden Pole 200-219mm Top Diameter Soil Type 4	Each	R 3,830.24	R 0.00	R 0.00
2		Concrete Poles		R 0.00		
2.1	D-DT-0017	11m Concrete Pole 10kN Ultimate Load	Each	R 377.08	R 0.00	R 0.00
2.2	D-DT-0015	12m Concrete Pole 10kN Ultimate Load	Each	R 411.36	R 0.00	R 0.00
2.3	D-DT-0016	13m Concrete Pole 10kN Ultimate Load	Each	R 445.64	R 0.00	R 0.00
2.4	D-DT-0018	14m Concrete Pole 10kN Ultimate Load	Each	R 479.92	R 0.00	R 0.00
3		Free Standing(Unsupported)		R 0.00		
3.1	PA09599B01	9m Concrete Pole 18kN	Each	R 377.08	R 0.00	R 0.00
3.2	D-DT-1650	12m Concrete Pole 8kN	Each	R 377.08	R 0.00	R 0.00
3.3	D-DT-1651	12m Concrete Pole 15kN	Each	R 707.03	R 0.00	R 0.00
3.4	D-DT-1652	12m Concrete Pole 27kN	Each	R 1,272.66	R 0.00	R 0.00
3.5	D-DT-1653	12m Concrete Pole 42kN	Each	R 1,979.69	R 0.00	R 0.00
3.6	D-DT-1654	12m Concrete Pole 58kN	Each	R 2,733.86	R 0.00	R 0.00
3.7	D-DT-1655	12m Concrete Pole 65kN - Terminal Structure	Each	R 3,063.81	R 0.00	R 0.00
3.8	D-DT-1656	12m Concrete Pole 73kN	Each	R 3,440.90	R 0.00	R 0.00
3.9	D-DT-1657	12m Concrete Pole 106kN	Each	R 4,996.37	R 0.00	R 0.00
3.10	D-DT-1650	13m Concrete Pole 8kN	Each	R 408.51	R 0.00	R 0.00
3.11	D-DT-1651	13m Concrete Pole 15kN	Each	R 765.95	R 0.00	R 0.00
3.12	D-DT-1652	13m Concrete Pole 27kN	Each	R 1,378.72	R 0.00	R 0.00
3.13	D-DT-1653	13m Concrete Pole 42kN	Each	R 2,144.67	R 0.00	R 0.00
3.14	D-DT-1654	13m Concrete Pole 58kN	Each	R 2,961.69	R 0.00	R 0.00
3.15	D-DT-1655	13m Concrete Pole 65kN - Terminal Structure	Each	R 3,319.13	R 0.00	R 0.00
3.16	D-DT-1656	13m Concrete Pole 73kN	Each	R 3,727.64	R 0.00	R 0.00
3.17	D-DT-1657	13m Concrete Pole 106kN	Each	R 5,412.74	R 0.00	R 0.00
SUB-TOTAL D						R 0.00
E	Single Phase MV Structure (DOWNWIRE EXCL BUT BONDING INCL)					
	Supply and erect MV support structures as per Eskom DDT 0400, 1300, 1700, 1800 drawings and OU specific SI Engineering instructions. Auxiliary equipment such as bonding, jumpers, jumper terminations, pole and x-arm mounting and mounting hardware, conductor attachment hardware and insulators to be included. Poles are measured elsewhere, crossarms are included. Stay, strut material measured elsewhere. Pole, stay and strut excavations are measured elsewhere. Where road crossing structures are to be used the line hardware needs to be changed to include : For intermediate a suitable fullwrap road crossing tie and for a strain structure a 3bolt suitable pistol grip. Other relevant road crossing hardware to be included where required. Road crossings to be inserted in BOQ where required and marked with "RX" as part of the description. MV intermediate structures that fall within high lightning zones in the OU shall have the a spark gap device installed on its BIL downwire. Refer DDT3134. All other intermediate structures will have a normal BIL. All line hardware					
		Intermediate - 0 deg				
1.1	1390	Phase / phase - T-frame / 2m Steel X-arm – Intermediate - 0° Deviation	Each	R 298.27	R 0.00	R 0.00
1.2	1390	Phase / phase - T-frame / 2m Steel X-arm – Intermediate - 0° Deviation -RX	Each	R 298.27	R 0.00	R 0.00
1.3	1390	Phase / phase - T-frame / 2m Steel X-arm – Intermediate - 0° Deviation -With Spark Gap device	Each	R 298.27	R 0.00	R 0.00
1.4	1390	Phase / phase - T-frame / 2m Steel X-arm – Intermediate - 0° Deviation -With Spark Gap device - RX	Each	R 298.27	R 0.00	R 0.00
1.5	1370	Phase / phase - H-Pole / 4,5m Wood X-arm – Intermediate - 0° Deviation	Each	R 475.60	R 0.00	R 0.00
1.6	1370	Phase / phase - H-Pole / 4,5m Wood X-arm – Intermediate - 0° Deviation -RX	Each	R 475.60	R 0.00	R 0.00
1.7	1370	Phase / phase - H-Pole / 4,5m Wood X-arm – Intermediate - 0° Deviation -With Spark Gap device	Each	R 508.95	R 0.00	R 0.00
1.8	1370	Phase / phase - H-Pole / 4,5m Wood X-arm – Intermediate - 0° Deviation -With Spark Gap device-RX	Each	R 508.95	R 0.00	R 0.00
		Strainer - Small (1 - 30) deg				
2.1	1371	Phase / phase – H-Pole / 4.5m Wood x-arm – Intermediate – Small (1 –10°) deviation	Each	R 473.44	R 0.00	R 0.00
2.2	1371	Phase / phase – H-Pole / 4.5m Wood x-arm – Intermediate – Small (1 –10°) deviation-RX	Each	R 473.44	R 0.00	R 0.00
2.3	1391	Phase / phase - T-frame/ 2m Steel X-arm – Intermediate - Small (1- +/-10°) Deviation	Each	R 298.27	R 0.00	R 0.00
2.4	1391	Phase / phase - T-frame/ 2m Steel X-arm – Intermediate - Small (1- +/-10°) Deviation -RX	Each	R 260.98	R 0.00	R 0.00
		Strainer - 0 deg				
3.1	1340	Phase / phase – Delta/2.5M Wooden X-arm –Strain - 0° Deviation	Each	R 299.63	R 0.00	R 0.00
3.2	1340	Phase / phase – Delta/2.5M Wooden X-arm –Strain - 0° Deviation Rx	Each	R 299.63	R 0.00	R 0.00
3.3	1340B	Phase / phase – Delta/2.5M Wooden X-arm –Strain - 0° Deviation	Each	R 299.63	R 0.00	R 0.00
3.4	1340B	Phase / phase – Delta/2.5M Wooden X-arm –Strain - 0° Deviation Rx	Each	R 299.63	R 0.00	R 0.00
3.5	1340B	Phase / phase – Delta/2.5M Wooden X-arm –Strain - 0° Deviation With Spark Gap Device	Each	R 322.11	R 0.00	R 0.00
3.6	1340B	Phase / phase – Delta/2.5M Wooden X-arm –Strain - 0° Deviation With Spark Gap Device-Rx	Each	R 322.11	R 0.00	R 0.00
3.7	1343	Phase / phase – Delta/2.5M Wooden X-arm –Strain - 0° Deviation	Each	R 299.63	R 0.00	R 0.00
3.8	1343	Phase / phase – Delta/2.5M Wooden X-arm –Strain - 0° Deviation - Rx	Each	R 299.63	R 0.00	R 0.00
3.9	1373	Phase / phase - H-Pole / 4,5m Wood X-arm – Strain – 0° Deviation	Each	R 473.44	R 0.00	R 0.00
3.10	1373	Phase / phase - H-Pole / 4,5m Wood X-arm – Strain – 0° Deviation - RX	Each	R 473.44	R 0.00	R 0.00

Strainer - Medium (1 - 60) deg						
4.1	1344	Phase / phase - Delta/2.5M Wooden X-arm -Strain - Medium (1-60°) Deviation	Each	R 299.63	R 0.00	R 0.00
4.2	1344	Phase / phase - Delta/2.5M Wooden X-arm -Strain - Medium (1-60°) Deviation -Rx	Each	R 299.63	R 0.00	R 0.00
4.3	1374	Phase / phase - H-Pole / 4,5m Wood X-arm - Strain - Medium(1°-60°) Deviation	Each	R 473.44	R 0.00	R 0.00
4.4	1374	Phase / phase - H-Pole / 4,5m Wood X-arm - Strain - Medium(1°-60°) Deviation -RX	Each	R 473.44	R 0.00	R 0.00
Strainer - Terminal						
5.1	1346	Phase / phase - Delta/2.5M Wood X-arm - Strain - Terminal	Each	R 299.63	R 0.00	R 0.00
5.2	1346	Phase / phase - Delta/2.5M Wood X-arm - Strain - Terminal -Rx	Each	R 299.63	R 0.00	R 0.00
5.3	1376	Phase / phase - H-Pole / 4,5m Wood X-arm - Strain - Terminal	Each	R 473.44	R 0.00	R 0.00
5.4	1376	Phase / phase - H-Pole / 4,5m Wood X-arm - Strain - Terminal -RX	Each	R 473.44	R 0.00	R 0.00
Take-Off						
6.1	1811	Phase / phase Take-off - Vertical (600mm spacing)	Each	R 177.54	R 0.00	R 0.00
6.2	1811	Phase / phase Take-off - Vertical (600mm spacing)-RX	Each	R 177.54	R 0.00	R 0.00
6.3	1814	Phase / phase Take-off - 2.5m Wooden X-arm	Each	R 223.70	R 0.00	R 0.00
6.4	1814	Phase / phase Take-off - 2.5m Wooden X-arm-RX	Each	R 223.70	R 0.00	R 0.00
6.5	1815	Phase / phase Take-off - 2 x 2.5m Wooden X-arm	Each	R 355.08	R 0.00	R 0.00
6.6	1815	Phase / phase Take-off - 2 x 2.5m Wooden X-arm-RX	Each	R 355.08	R 0.00	R 0.00
6.7	1816	Phase / phase Take-off - H-Pole (3,5m Wooden X-arm)	Each	R 414.26	R 0.00	R 0.00
6.8	1816	Phase / phase Take-off - H-Pole (3,5m Wooden X-arm)-RX	Each	R 414.26	R 0.00	R 0.00
6.9	1817	Phase / phase Take-off - H-Pole (2 x 3,5m Wooden X-arm)	Each	R 473.44	R 0.00	R 0.00
6.10	1817	Phase / phase Take-off - H-Pole (2 x 3,5m Wooden X-arm) -RX	Each	R 473.44	R 0.00	R 0.00
Assemble Three Phase MV Structures (Downwire excluded but Bonding Included)						
Intermediate - 0 deg						
7.1	D-DT-1700	3 Phase - Staggered Vertical (450mm Spacing)	Each	R 251.12	R 0.00	R 0.00
7.2	D-DT-1710	3 Phase - Staggered Vertical (600mm Spacing)	Each	R 251.12	R 0.00	R 0.00
7.3	D-DT-1720	3 Phase - Delta (450mm Stud)	Each	R 251.12	R 0.00	R 0.00
7.4	D-DT-1730	3 Phase - Delta (Intermediate T' Crossarm)	Each	R 251.12	R 0.00	R 0.00
7.5	D-DT-1740	3 Phase - Delta / 2,5m Wood Crossarm	Each	R 287.00	R 0.00	R 0.00
7.6	D-DT-1750	3 Phase - Delta / 4,5m Wood Crossarm	Each	R 569.45	R 0.00	R 0.00
7.7	D-DT-1760	3 Phase - H-Pole / 3,5m Wood Crossarm	Each	R 455.56	R 0.00	R 0.00
7.8	D-DT-1770	3 Phase - H-Pole / 4,5m Wood Crossarm	Each	R 455.56	R 0.00	R 0.00
7.9	D-DT-1785	MV Heavy Conductor - 3 Phase Staggered Vertical 800mm Spacing	Each	R 569.45	R 0.00	R 0.00
7.10	D-DT-1790	MV Heavy Conductor - 3 Phase - Delta - 3500mm Wooden Crossarm	Each	R 569.45	R 0.00	R 0.00
7.11	D-DT-1793	MV Heavy Conductor - 22kV H-Pole Suspension Structure General Arrangement	Each	R 569.45	R 0.00	R 0.00
7.12	D-DT-1870	Three Phase T-Frame / 2m Steel Crossarm	Each	R 287.00	R 0.00	R 0.00
7.13	1740B	3 Phase - Delta / 2,5m Wood X-arm - Intermediate - 0° Deviation	Each	R 298.27	R 0.00	R 0.00
7.14	1740B	3 Phase - Delta / 2,5m Wood X-arm - Intermediate - 0° Deviation - RX	Each	R 298.27	R 0.00	R 0.00
7.15	1740B	3 Phase - Delta / 2,5m Wood X-arm - Intermediate - 0° Deviation - With Spark Gap Device	Each	R 320.64	R 0.00	R 0.00
7.16	1740B	3 Phase - Delta / 2,5m Wood X-arm - Intermediate - 0° Deviation - With Spark Gap Device-RX	Each	R 320.64	R 0.00	R 0.00
7.17	1750	3 Phase - Delta / 4,5m Wood X-arm - Intermediate - 0° Deviation - RX	Each	R 569.45	R 0.00	R 0.00
7.18	1750	3 Phase - Delta / 4,5m Wood X-arm - Intermediate - 0° Deviation - With Spark Gap Device	Each	R 569.45	R 0.00	R 0.00
7.19	1750	3 Phase - Delta / 4,5m Wood X-arm - Intermediate - 0° Deviation - With Spark Gap Device-RX	Each	R 569.45	R 0.00	R 0.00
7.20	1710	3 Phase - Staggered Vertical (600mm Spacing) Intermediate 0° Deviation Rx	Each	R 251.12	R 0.00	R 0.00
7.21	1770	3 Phase - H-Pole / 4,5m Wood X-arm - Intermediate - 0° Deviation - RX	Each	R 473.44	R 0.00	R 0.00
7.22	1770	3 Phase - H-Pole / 4,5m Wood X-arm - Intermediate - 0° Deviation - With Spark Gap Device	Each	R 455.56	R 0.00	R 0.00
7.23	1770	3 Phase - H-Pole / 4,5m Wood X-arm - Intermediate - 0° Deviation - With Spark Gap Device -RX	Each	R 455.56	R 0.00	R 0.00
7.24	1790	Heavy Conductor - 3 Phase Delta-3500mm Wooden X-arm Intermediate 0° Deviation Rx	Each	R 569.45	R 0.00	R 0.00
7.25	1710	3 Phase - Staggered Vertical (600mm Spacing) Intermediate 0° Deviation Rx	Each	R 251.12	R 0.00	R 0.00
Intermediate - (0 - 10) deg						
8.1	D-DT-1701	3 Phase - Vertical (450mm Spacing)	Each	R 251.12	R 0.00	R 0.00
8.2	D-DT-1711	3 Phase - Vertical (600mm Spacing)	Each	R 251.12	R 0.00	R 0.00
8.3	D-DT-1771	3 Phase - H-Pole / 4,5m Wood Crossarm	Each	R 455.56	R 0.00	R 0.00
8.4	D-DT-1871	Three Phase T-Frame / 2m Steel Crossarm	Each	R 287.00	R 0.00	R 0.00
8.5	1771	3 Phase - H-Pole / 4,5m Wood X-arm - Intermediate - Small(1°-±10°) Deviation -RX	Each	R 455.56	R 0.00	R 0.00
8.6	1711	3 Phase - Vertical (600mm Spacing) Intermediate-Small (1- ±10°) Deviation Rx	Each	R 251.12	R 0.00	R 0.00
Intermediate - (15 - 30) deg						
9.1	D-DT-1702	3 Phase - Vertical (450mm Spacing)	Each	R 251.12	R 0.00	R 0.00
9.2	D-DT-1712	3 Phase - Vertical (600mm Spacing)	Each	R 251.12	R 0.00	R 0.00
9.3	1712	3 Phase - Vertical (600mm Spacing) Intermediate-Medium (±15-30°) Deviation Rx	Each	R 251.12	R 0.00	R 0.00
Strainer - 0 deg						
10.1	D-DT-1703	3 Phase - Vertical (450mm Spacing)	Each	R 287.00	R 0.00	R 0.00
10.2	D-DT-1713	3 Phase - Vertical (600mm Spacing)	Each	R 287.00	R 0.00	R 0.00
10.3	D-DT-1733	3 Phase - Delta / 1,3m Steel Crossarm	Each	R 287.00	R 0.00	R 0.00
10.4	D-DT-1743	3 Phase - 600mm Phase Spacing Delta / 2,5m Wood Crossarm	Each	R 322.88	R 0.00	R 0.00
10.5	D-DT-1747	3 Phase - 600mm Phase Spacing Delta / 2 x 2,5m Wood Crossarm	Each	R 569.45	R 0.00	R 0.00
10.6	D-DT-1747	3 Phase - 800mm Phase Spacing Delta / 2 x 2,5m Wood Crossarm	Each	R 569.45	R 0.00	R 0.00
10.7	D-DT-1753	3 Phase - Delta / 4,5m Wood Crossarm	Each	R 569.45	R 0.00	R 0.00
10.8	D-DT-1763	3 Phase - Delta / 3,5m Wood Crossarm	Each	R 569.45	R 0.00	R 0.00
10.9	D-DT-1767	3 Phase - H-Pole / 2 x 3,5m Wood Crossarm	Each	R 990.85	R 0.00	R 0.00
10.10	D-DT-1773	3 Phase - H-Pole / 4,5m Wood Crossarm	Each	R 455.56	R 0.00	R 0.00
10.11	D-DT-1777	3 Phase - H-Pole / 2 x 4,5m Wood Crossarm	Each	R 990.85	R 0.00	R 0.00
10.12	D-DT-1783	3 Phase - Trips	Each	R 1,025.01	R 0.00	R 0.00
10.13	D-DT-1786	MV Heavy Conductor - 22kV 3 Phase - Vertical 800mm Spacing	Each	R 569.45	R 0.00	R 0.00
10.14	D-DT-1794	MV Heavy Conductor - 22kV H-Pole Braced	Each	R 569.45	R 0.00	R 0.00
10.15	1767	3 Phase - H-Pole / 2 x 3,5m Wood X-arm - Strain - 0° Deviation -RX	Each	R 990.85	R 0.00	R 0.00
10.16	1773	3 Phase - H-Pole / 4,5m Wood X-arm - Strain - 0° Deviation-RX	Each	R 455.56	R 0.00	R 0.00
10.17	1777	3 Phase - H-Pole / 2 x 4,5m Wood X-arm - Strain - 0° Deviation - RX	Each	R 990.85	R 0.00	R 0.00
10.18	1713	3 Phase - Vertical (600mm Spacing) Strain 0° Deviation Rx	Each	R 287.00	R 0.00	R 0.00
10.19	1743	3 Phase - Delta / 2,5m Wood X-arm - Strain - 0° Deviation -RX	Each	R 322.88	R 0.00	R 0.00
10.20	1747	3 Phase - Delta / 2 x 2,5m Wood X-arm - Strain - 0° Deviation -RX	Each	R 569.45	R 0.00	R 0.00
10.21	1753	3 Phase - Delta / 4,5m Wood X-arm - Strain - 0° Deviation -RX	Each	R 569.45	R 0.00	R 0.00
10.22	1763	3 Phase - H-Pole / 3,5m Wood X-arm - Strain - 0° Deviation -RX	Each	R 569.45	R 0.00	R 0.00
10.23	1785	3 Phase - Staggered Vertical (800mm spacing) 0° Deviation Rx Wood Poles Rx	Each	R 569.45	R 0.00	R 0.00
10.24	1786	3 Phase - Vertical (800mm spacing) Strain 0° Deviation 10kN Wood Poles Rx	Each	R 569.45	R 0.00	R 0.00

10.25	1783	3 Phase – Trips – Strain - 0° Deviation (Front view) -RX	Each	R 1,025.01	R 0.00	R 0.00
10.26	1794	Heavy Conductor H-Pole Braced In-Line strain-RX	Each	R 569.45	R 0.00	R 0.00
11		Strainer - Small (1 - 30) deg				
11.1	D-DT-1704	3 Phase - Vertical (450mm Spacing)	Each	R 287.00	R 0.00	R 0.00
11.2	D-DT-1714	3 Phase - Vertical (600mm Spacing)	Each	R 287.00	R 0.00	R 0.00
11.3	D-DT-1734	3 Phase - Delta / 1,3m Steel Crossarm	Each	R 322.88	R 0.00	R 0.00
11.4	D-DT-1787	MV Heavy Conductor - 22kV 3 Phase - Vertical 800mm Spacing	Each	R 569.45	R 0.00	R 0.00
11.5	1714	3 Phase - Vertical (600mm Spacing) Strain - Small(1-30°) Deviation Rx	Each	R 287.00	R 0.00	R 0.00
11.6	1787	3 Phase - Vertical (800mm spacing) Strain 0-30° Deviation 10kN Wood Poles Rx	Each	R 569.45	R 0.00	R 0.00
12		Strainer - Medium (1 - 60) deg				
12.1	D-DT-1744	3 Phase - Delta / 2,5m Wood Crossarm	Each	R 322.88	R 0.00	R 0.00
12.2	D-DT-1748	3 Phase - Delta / 2 x 2,5m Wood Crossarm	Each	R 569.45	R 0.00	R 0.00
12.3	D-DT-1754	3 Phase - Delta / 4,5m Wood Crossarm	Each	R 569.45	R 0.00	R 0.00
12.4	D-DT-1754	3 Phase - Delta / 2 x 4,5m Wood Crossarm	Each	R 569.45	R 0.00	R 0.00
12.5	D-DT-1764	3 Phase - H-Pole / 3,5m Wood Crossarm	Each	R 569.45	R 0.00	R 0.00
12.6	D-DT-1768	3 Phase - Pole / 2 x 3,5m Wood Crossarm	Each	R 990.85	R 0.00	R 0.00
12.7	D-DT-1774	3 Phase - H-Pole / 4,5m Wood Crossarm	Each	R 455.56	R 0.00	R 0.00
12.8	D-DT-1778	3 Phase - Pole / 2 x 4,5m Wood Crossarm	Each	R 990.85	R 0.00	R 0.00
12.9	D-DT-1795	MV Heavy Conductor - 22kV H-Pole Braced	Each	R 569.45	R 0.00	R 0.00
12.10	1744	3 Phase - Delta / 2,5m Wood X-arm - Strain – Medium(1°-60°) Deviation -RX	Each	R 322.88	R 0.00	R 0.00
12.11	1748	3 Phase - Delta / 2 x 2,5m Wood X-arm - Strain - Medium(1°-60°) Deviation -RX	Each	R 569.45	R 0.00	R 0.00
12.12	1754	3 Phase - Delta / 4,5m Wood X-arm - Strain – Medium(1°-60°) Deviation -RX	Each	R 569.45	R 0.00	R 0.00
12.13	1754	3 Phase - Delta / 2x4,5m Wood X-arm - Strain – Medium(1°-60°) Deviation -RX	Each	R 569.45	R 0.00	R 0.00
12.14	1764	3 Phase - H-Pole / 3,5m Wood X-arm - Strain - Medium(1°-60°) Deviation -RX	Each	R 569.45	R 0.00	R 0.00
12.15	1768	3 Phase - H-Pole / 2 x 3,5m Wood X-arm – Strain - Medium(1°-60°) Deviation -RX	Each	R 990.85	R 0.00	R 0.00
12.16	1774	3 Phase – H-Pole / 4,5m Wood X-arm - Strain - Medium(1°-60°) Deviation -RX	Each	R 455.56	R 0.00	R 0.00
12.17	1778	3 Phase – H-Pole / 2 x 4,5m Wood X-arm – Strain – Medium(1°-60°) Deviation -RX	Each	R 990.85	R 0.00	R 0.00
12.18	1795	Heavy Conductor H-Pole Braced Angle strain (1-60°)-RX	Each	R 569.45	R 0.00	R 0.00
13		Strainer - Large (61- 90) deg				
13.1	D-DT-1705	3 Phase - Vertical (450mm Spacing)	Each	R 322.88	R 0.00	R 0.00
13.2	D-DT-1715	3 Phase - Vertical (600mm Spacing)	Each	R 287.00	R 0.00	R 0.00
13.3	D-DT-1735	3 Phase - Delta / 1,3m Steel Crossarm	Each	R 287.00	R 0.00	R 0.00
13.4	D-DT-1742	3 Phase - Delta 2,5m Wood Crossarm / 1700 Steel Crossarm	Each	R 521.64	R 0.00	R 0.00
13.5	D-DT-1742	3 Phase - Delta 2,5m Wood Crossarm / 2,5m Wood Crossarm	Each	R 521.64	R 0.00	R 0.00
13.6	D-DT-1745	3 Phase - Delta 2 x 2,5m Wood Crossarm / 1700 Steel Crossarm	Each	R 569.45	R 0.00	R 0.00
13.7	D-DT-1745	3 Phase - Delta 2 x 2,5m Wood Crossarm / 2 x 2,5m Wood Crossarm	Each	R 569.45	R 0.00	R 0.00
13.8	D-DT-1745	3 Phase - Delta 1 x 2,5m Wood Crossarm / 1700 Steel Crossarm	Each	R 569.45	R 0.00	R 0.00
13.9	D-DT-1745	3 Phase - Delta 2,5m Wood Crossarm 2,5m Wood Crossarm	Each	R 569.45	R 0.00	R 0.00
13.10	D-DT-1784	3 Phase - Trips	Each	R 1,025.01	R 0.00	R 0.00
13.11	D-DT-1788	MV Heavy Conductor - 22kV 3 Phase - Vertical 800mm Spacing	Each	R 569.45	R 0.00	R 0.00
13.12	D-DT-1791	MV Heavy Conductor - 22kV 3 Phase - Vertical 800mm Spacing (Double Wood Poles)	Each	R 1,043.27	R 0.00	R 0.00
13.13	D-DT-1792	MV Heavy Conductor - 22kV 3 Phase - Vertical 800mm Spacing (Double Wood Poles)	Each	R 1,043.27	R 0.00	R 0.00
13.14	D-DT-1873	3 Phase - H-Pole / 2 x 4,5m Wooden Crossarm	Each	R 990.85	R 0.00	R 0.00
13.15	1715	3 Phase - Vertical (600mm Spacing) Strain - Large(30-90°) Deviation Rx	Each	R 287.00	R 0.00	R 0.00
13.16	1745	3 Phase - Delta / 2 x 2,5m wood x-arms/1700 WOOD x-arm - strain - (60° - 90°) deviation-RX	Each	R 569.45	R 0.00	R 0.00
13.17	1745	3 Phase - Delta / 2 x 2,5m wood x-arms/ 3x2.5 wood x-arms - strain - (60° - 90°) deviation	Each	R 569.45	R 0.00	R 0.00
13.18	1745	3 Phase - Delta / 2 x 2,5m wood x-arms/ 3x2.5 wood x-arms - strain - (60° - 90°) deviation-RX	Each	R 569.45	R 0.00	R 0.00
13.19	1784	3 Phase – Trips – Strain - Large(1°-90°) Deviation (Front view) -RX	Each	R 1,025.01	R 0.00	R 0.00
13.20	1873	3 Phase H-pole /2X4.5m Wooden X-arm Strain Large (60-90°) Deviation Rx	Each	R 990.85	R 0.00	R 0.00
14		Strainer - Terminal				
14.1	D-DT-1706	3 Phase - Vertical (450mm Spacing)	Each	R 287.00	R 0.00	R 0.00
14.2	D-DT-1716	3 Phase - Vertical (600mm Spacing)	Each	R 251.12	R 0.00	R 0.00
14.3	D-DT-1736	3 Phase - Delta / 1,3m Steel Crossarm	Each	R 287.00	R 0.00	R 0.00
14.4	D-DT-1746	3 Phase - Delta / 2,5M Wood Crossarm	Each	R 322.88	R 0.00	R 0.00
14.5	D-DT-1749	3 Phase - Delta / 2 x 2,5m Wood Crossarm	Each	R 569.45	R 0.00	R 0.00
14.6	D-DT-1756	3 Phase - Delta / 4,5M Wood Crossarm	Each	R 569.45	R 0.00	R 0.00
14.7	D-DT-1766	3 Phase - H-pole / 3,5m Wood Crossarm	Each	R 569.45	R 0.00	R 0.00
14.8	D-DT-1769	3 Phase - H-pole / 2 x 3,5m Wood Crossarm	Each	R 990.85	R 0.00	R 0.00
14.9	D-DT-1776	3 Phase - H-pole / 4,5m Wood Crossarm	Each	R 455.56	R 0.00	R 0.00
14.10	D-DT-1779	3 Phase - H-pole / 2 x 4,5m Wood Crossarm	Each	R 990.85	R 0.00	R 0.00
14.11	D-DT-1789	MV Heavy Conductor - 22kV 3 Phase - Vertical 800mm Spacing	Each	R 569.45	R 0.00	R 0.00
14.12	D-DT-1796	MV Heavy Conductor - 22kV H-Pole Braced	Each	R 569.45	R 0.00	R 0.00
14.13	1746	3 Phase - Delta / 2,5m Wood X-arm - Strain – Terminal -RX	Each	R 335.55	R 0.00	R 0.00
14.14	1749	3 Phase - Delta / 2 x 2,5m Wood X-arm - Strain - Terminal -RX	Each	R 591.80	R 0.00	R 0.00
14.15	1756	3 Phase - Delta / 4,5m Wood X-arm - Strain – Terminal -RX	Each	R 591.80	R 0.00	R 0.00
14.16	1766	3 Phase - H-Pole / 3,5m Wood X-arm - Strain - Terminal -RX	Each	R 591.80	R 0.00	R 0.00
14.17	1769	3 Phase - H-Pole / 2 x 3,5m Wood X-arm - Strain – Terminal -RX	Each	R 1,029.73	R 0.00	R 0.00
14.18	1776	3 Phase – H-Pole / 4,5m Wood X-arm - Strain - Terminal -RX	Each	R 473.44	R 0.00	R 0.00
14.19	1779	3 Phase – H-Pole / 2 x 4,5m Wood X-arm – Strain – Terminal-RX	Each	R 1,029.73	R 0.00	R 0.00
14.20	1789	3 Phase - Vertical (800mm spacing) Strain -Terminal (10kN Wood Poles) Rx	Each	R 591.80	R 0.00	R 0.00
14.21	1716	3 Phase - Vertical (600mm Spacing) Strain - Terminal Rx	Each	R 260.98	R 0.00	R 0.00
14.22	1796	Heavy Conductor H-Pole Braced Terminal structure-RX	Each	R 591.80	R 0.00	R 0.00
14.23	1793	Heavy Conductor H-Pole Suspension Structure-RX	Each	R 591.80	R 0.00	R 0.00
14.24	1793	Heavy Conductor H-Pole Suspension Structure- With Spark Gap Device	Each	R 627.31	R 0.00	R 0.00
14.25	1793	Heavy Conductor H-Pole Suspension Structure- With Spark Gap Device-RX	Each	R 627.31	R 0.00	R 0.00
15		Take-Off				
15.1	D-DT-1800	3 Phase Take-Off - Vertical (450mm Spacing)	Each	R 251.12	R 0.00	R 0.00
15.2	D-DT-1801	3 Phase Take-Off - Vertical (600mm Spacing)	Each	R 251.12	R 0.00	R 0.00
15.3	D-DT-1803	3 Phase Take-Off - Delta / 1,3m Steel Crossarm	Each	R 251.12	R 0.00	R 0.00
15.4	D-DT-1804	3 Phase Take-Of - 2,5M Wooden Crossarm	Each	R 251.12	R 0.00	R 0.00
15.5	D-DT-1805	3 Phase Take-Of - 2 x 2,5M Wooden Crossarm	Each	R 455.56	R 0.00	R 0.00
15.6	D-DT-1806	3 Phase Take-Of - H-Pole 3,5M Wooden Crossarm	Each	R 398.62	R 0.00	R 0.00
15.7	D-DT-1807	3 Phase Take-Of - H-Pole 2 x 3,5M Wooden Crossarm	Each	R 455.56	R 0.00	R 0.00
15.8	D-DT-1808	3 Phase Take-Off - 1.7m Steel Crossarm (Fox)	Each	R 199.30	R 0.00	R 0.00
15.9	D-DT-1809	3 Phase Take-Off - 1.7m Steel Crossarm (Hare)	Each	R 199.30	R 0.00	R 0.00
15.10	1801	3 Phase Take-off – Vertical 600mm Spacing Rx	Each	R 251.12	R 0.00	R 0.00
15.11	1804	3 Phase Take-off - 2.5m Wooden X-arm-RX	Each	R 251.12	R 0.00	R 0.00
15.12	1805	3 Phase Take-off - 2 x 2,5m Wooden X-arm-RX	Each	R 455.56	R 0.00	R 0.00
15.13	1806	3 Phase Take-off - H-Pole (3,5m Wooden X-arm)-RX	Each	R 398.62	R 0.00	R 0.00
15.14	1807	3 Phase Take-off - H-Pole (2 x 3,5m Wooden X-arm) -RX	Each	R 455.56	R 0.00	R 0.00
15.15	(OU Specific Drawing No)	Erect goal posts, supply and erect temporary structures and traffic signs and regulate traffic during construction for all road crossings/railways crossings . (This includes any loss of production during road crossings and ensuring that access is maintained to roads and properties as well as any fees by Prov. Traffic Dept)	Each	R 3,587.44	R 0.00	R 0.00

SUB-TOTAL E						R 0.00
F		ASSEMBLE MV STAYS				
Supply and install stays, flying stays, struts Hip Stay including backfilling & compaction. Accessories include staywire, stayrods, stay plates, soil anchors, stay insulators, guy grips stay mounting brackets, mounting hardware, anti climbing devices, stayguards and danger labels. Poles and excavations are measured elsewhere. The installation and erection of strut poles are measured here. All hardware purchased will be paid elsewhere as cost plus fee.						
1.1	D-DT-0341	Make-Off Conventional Stay	Each	R 421.67	R 0.00	R 0.00
1.2	D-DT-0343	Make-Off Flying Stay	Each	R 503.34	R 0.00	R 0.00
1.3	D-DT-0342/0351	Make-Off Strut Pole	Each	R 373.72	R 0.00	R 0.00
1.4	D-DT-0344	Hip Stay	Each	R 659.80	R 0.00	R 0.00
1.5	0357 (Sh 1 of 3)	LV/MV-ROCK ANCHOR INSTALLATION (EXPANDABLE SHELL & RESIN TYPE)	Each	R 297.25	R 0.00	R 0.00
1.6	0357 (Sh 2 of 3)	LV/MV-ROCK ANCHOR INSTALLATION (2 EYED ROD AND PIN TYPE)	Each	R 237.80	R 0.00	R 0.00
1.7	0357 (Sh 3 of 3)	MV- SOFT ROCK ANCHOR INSTALLATION	Each	R 237.80	R 0.00	R 0.00
SUB-TOTAL F						R 0.00
G		ASSEMBLE SINGLE PHASE LV STRUCTURES				
Supply and erect LV support structures as per Eskom DDT 1100(only use insulated neutral ABC). Auxiliary equipment such as strain clamps, suspension clamps, cable ties, IPC's , end caps, LV shackle insulators, binding wires, D brackets, dead end preforms, threaded rods, pigtail bolts, eyenuts, terminations to be included. Pole, stay and strut material and excavations are measured elsewhere. All hardware purchased will be paid elsewhere as cost plus fee.A436						
1		A. List of single-phase ABC wood pole				
1.1	1153	LV 1 phase insulated/bare neutral ABC Suspension Assembly (0° - 30°)	Each	R 88.77	R 0.00	R 0.00
1.2	1154	LV 1 phase insulated/bare neutral ABC Terminal Assembly	Each	R 118.36	R 0.00	R 0.00
1.3	1155	LV 1 phase insulated/bare neutral ABC Strain Assembly (0° - 60°)	Each	R 118.36	R 0.00	R 0.00
1.4	1156	LV 1 phase insulated/bare neutral LV 2 phase bare neutral (60° - 90°)	Each	R 118.36	R 0.00	R 0.00
1.5	1157	LV 1 phase insulated/bare neutral ABC T from Intermediate	Each	R 118.36	R 0.00	R 0.00
1.6	1158	LV 1 phase insulated/bare neutral ABC Cross Intermediate Suspension Assembly	Each	R 147.95	R 0.00	R 0.00
1.7	1159	LV 1 phase insulated/bare neutral ABC T from Strain	Each	R 177.54	R 0.00	R 0.00
1.8	1160	LV 1 phase insulated/bare neutral ABC X Intermediate-Strain Assembly	Each	R 207.13	R 0.00	R 0.00
ASSEMBLE DUAL PHASE LV STRUCTURES						
Supply and erect LV support structures as per Eskom DDT 1100(only use insulated neutral ABC). Auxiliary equipment such as strain clamps, suspension clamps, cable ties, IPC's , end caps, LV shackle insulators, binding wires, D brackets, dead end preforms, threaded rods, pigtail bolts, eyenuts, terminations to be included. Pole, stay and strut material and excavations are measured elsewhere. All hardware purchased will be paid elsewhere as cost plus fee.A436						
2		B. List of Dual - phase ABC wood pole				
2.1	1145	LV 2 phase insulated/bare neutral ABC Suspension Assembly (0° - 30°)	Each	R 88.77	R 0.00	R 0.00
2.2	1146	LV 2 phase insulated/bare neutral ABC Terminal Assembly	Each	R 118.36	R 0.00	R 0.00
2.3	1147	LV 2 phase insulated/bare neutral ABC Strain Assembly (0° - 60°)	Each	R 118.36	R 0.00	R 0.00
2.4	1148	LV 2 phase insulated/bare neutral ABC Strain Assembly (60° - 90°)	Each	R 118.36	R 0.00	R 0.00
2.5	1149	LV 2 phase insulated/bare neutral ABC T from Intermediate	Each	R 118.36	R 0.00	R 0.00
2.6	1150	LV 2 phase insulated/bare neutral ABC Intermediate Suspension Assembly	Each	R 147.95	R 0.00	R 0.00
2.7	1151	LV 2 phase insulated/bare neutral ABC T from Strain	Each	R 177.54	R 0.00	R 0.00
2.8	1152	LV 2 phase insulated/bare neutral ABC X Intermediate-Strain Assembly	Each	R 207.13	R 0.00	R 0.00
ASSEMBLE 3 PHASE LV STRUCTURES						
Supply and erect LV support structures as per Eskom DDT 1100(only use insulated neutral ABC). Auxiliary equipment such as strain clamps, suspension clamps, cable ties, IPC's , end caps, LV shackle insulators, binding wires, D brackets, dead end preforms, threaded rods, pigtail bolts, eyenuts, terminations to be included. Pole, stay and strut material and excavations are measured elsewhere. All hardware purchased will be paid elsewhere as cost plus fee.A436						
3		A. List of 3-phase ABC wood pole				
3.1	D-DT-1100	LV - 3 Phase insulated/bare neutral ABC Suspension Assembly 0-30 Deg.	Each	R 111.04	R 0.00	R 0.00
3.2	D-DT-1121	LV - 3 Phase insulated/bare neutral ABC Strain Assembly 0-60 Deg.	Each	R 148.05	R 0.00	R 0.00
3.3	D-DT-1122	LV - 3 Phase insulated/bare neutral ABC Strain Assembly 60-90 Deg.	Each	R 148.05	R 0.00	R 0.00
3.4	D-DT-1120	LV - 3 Phase insulated/bare neutral ABC Terminal Assembly	Each	R 148.05	R 0.00	R 0.00
3.5	D-DT-1140	LV - 3 Phase insulated/bare neutral ABC T-Off Assembly from Intermediate	Each	R 148.05	R 0.00	R 0.00
3.6	D-DT-1141	LV - 3 Phase insulated/bare neutral ABC Cross Intermediate - Intermediate Assembly	Each	R 185.07	R 0.00	R 0.00
3.7	D-DT-1142	LV - 3 Phase insulated/bare neutral ABC T-Off Assembly From Strain	Each	R 222.08	R 0.00	R 0.00
3.8	D-DT-1143	LV - 3 Phase insulated/bare neutral ABC Cross Intermediate - Strain Assembly	Each	R 259.09	R 0.00	R 0.00
SUB-TOTAL G						R 0.00
H		ASSEMBLE LV STAYS				
Supply and install stays, flying stays, struts Short Stay including backfilling & compaction. Accessories include staywire, stayrods, stay plates, soil anchors, stay insulators, guy grips stay mounting brackets, mounting hardware, anti climbing devices, stayguards and danger labels. Poles and excavations are measured elsewhere. The installation and erection of strut poles are measured here. All hardware purchased will be paid elsewhere as cost plus fee.						
1.1	D-DT-0341	Make-Off Conventional Stay	Each	R 400.58	R 0.00	R 0.00
1.2	D-DT-0343	Make-Off Flying Stay	Each	R 478.18	R 0.00	R 0.00
1.3	D-DT-0342/0351	Make-Off Strut Pole	Each	R 355.04	R 0.00	R 0.00
1.4	D-DT-0344	Make-Off Short Strut Pole	Each	R 355.04	R 0.00	R 0.00
SUB-TOTAL H						R 0.00
I		POLE TOP BOX INSTALLATION				
Install on a wooden and/or concrete pole a pole mounted distribution box as specified complete with pole mounting brackets (including sealing), cable ties, PG clamps, miniature circuit breaker(s), neutral, phase and earth bars, insulated copper tails for connecting to LV ABC, insulation piercing connectors and factory installed cable openings. Included shall be the stainless steel strapping, buckles and terminations of the tails onto the LV ABC. Eskom D-DT standards as amended will apply.						
1.1	D-DT-3236	2 Way Fibre Glass Box for Split Metering	Each	R 209.67	R 0.00	R 0.00
1.2	D-DT-3236	4 Way Fibre Glass Box for Split Metering	Each	R 209.67	R 0.00	R 0.00
1.3	D-DT-3055	8 Way Fibre Glass Box for Split Metering	Each	R 209.67	R 0.00	R 0.00
1.4	D-DT-3236	2 Way Steel Box for Split Metering	Each	R 314.49	R 0.00	R 0.00
1.5	D-DT-3236	4 Way Steel Box for Split Metering	Each	R 314.49	R 0.00	R 0.00
1.6	D-DT-3236	6 Way Steel Box for Split Metering	Each	R 314.49	R 0.00	R 0.00
1.7	D-DT-3236	8 Way Steel Box for Split Metering	Each	R 314.49	R 0.00	R 0.00
1.8	3055	BOX,POLE TOP SPLIT METER 2-WAY 50A D3055	Each	R 314.49	R 0.00	R 0.00
1.9	3055	BOX,POLE TOP SPLIT METER 4-WAY 50A D3055	Each	R 314.49	R 0.00	R 0.00
1.10	3055	BOX,POLE TOP SPLIT METER 2-WAY 120A D3055	Each	R 314.49	R 0.00	R 0.00
1.11	3055	BOX,POLE TOP SPLIT METER 8-WAY 50A D3055	Each	R 314.49	R 0.00	R 0.00
SUB-TOTAL I						R 0.00
J		CONDUCTOR STRINGING (TENSION, REGULATE & BIND IN)				
Install Eskom issued marked conductor. Material quantity to allow for 5% sag in addition to actual conductor length quantity. Installation includes handling, stringing and final sagging. This will be for greased ungreased conductor						

1.1		Fox Conductor 1-Phase	m	R 4.55	R 0.00	R 0.00
1.2		Fox Full Tension Joint*	Each	R 111.52	R 0.00	R 0.00
1.3		Mink Conductor 1-Phase	m	R 4.55	R 0.00	R 0.00
1.4		Mink Full Tension Joint*	Each	R 111.52	R 0.00	R 0.00
1.5		Hare Conductor 1-Phase	m	R 4.55	R 0.00	R 0.00
1.6		Hare Full Tension Joint*	Each	R 111.52	R 0.00	R 0.00
1.7		Chickadee Conductor 1-Phase	m	R 19.11	R 0.00	R 0.00
1.8		Chickadee Full Tension Joint*	Each	R 210.25	R 0.00	R 0.00
1.9		Kingbird Conductor 1-Phase	m	R 19.11	R 0.00	R 0.00
1.10		Kingbird Full Tension Joint*	Each	R 210.25	R 0.00	R 0.00
1.11	3136	MV Bare AAAC Pine Greased	m	R 4.55	R 0.00	R 0.00
1.12		Pine Conductor Full Tension Joint	Each	R 111.52	R 0.00	R 0.00
1.13	3136	MV Bare AAAC Oak Greased	m	R 4.55	R 0.00	R 0.00
1.14		Oak Conductor Full Tension Joint	Each	R 111.52	R 0.00	R 0.00
1.15	3136	MV Bare AAAC 35mmsq Greased	m	R 4.55	R 0.00	R 0.00
1.16	0831	35mm sq. Full Tension Joint* 2 Core	Each	R 111.52	R 0.00	R 0.00
1.17	0831	35mm sq. Full Tension Joint* 3 Core	Each	R 167.89	R 0.00	R 0.00
1.18	0831	35mm sq. Full Tension Joint* 4 Core	Each	R 446.08	R 0.00	R 0.00
1.19		35 mm sq. ABC 3-phase	m	R 4.55	R 0.00	R 0.00
1.20	0800 series	70mm sq. Full Tension Joint* 4 Core	Each	R 111.52	R 0.00	R 0.00
1.21		70 mm sq. ABC 3-phase	m	R 4.55	R 0.00	R 0.00
1.22	3141	COND,ABC 2C XLPE 35SQ INS NEUT	m	R 2.78	R 0.00	R 0.00
1.23	3141	COND,ABC 3C XLPE 35SQ INS NEUT	m	R 2.96	R 0.00	R 0.00
1.24	3141	COND,ABC 4C XLPE 35SQ INS NEUT	m	R 3.95	R 0.00	R 0.00
1.25	3141	COND,ABC 3C XLPE 70SQ INS NEUT	m	R 2.96	R 0.00	R 0.00
1.26	3141	COND,ABC 4C XLPE 70SQ INS NEUT	m	R 3.95	R 0.00	R 0.00
SUB-TOTAL J						R 0.00
K	EQUIPMENT INSTALLATION					
Install Transformer/Recloser/Voltage Regulator/MV Metering Units as per relevant Eskom DDT 1800 Series Assembly Drawing and OU Specific SI Engineering Instructions. All Auxiliary Equipment to include Station and Distribution MV, LV Surge Arrestors, Control Boxes, Metering Kiosks, Jumper Terminations, Anti Climbing Devices, LDPE Pipe Covered Jumpers as per 02TB-023 and Danger Labels, Channel Irons, Cradles, Standoff Insulators, Conductor Busbars and suitable Equipment Labels & X Arms. Pole Planting, Stays, Struts, Isolators Earthing Material and Excavations are elsewhere measured. Transformers/Reclosers/Voltage Regulators and MV Metering Units will be Eskom Free Issue Material. Main Line Structures and Auxiliary Equipment are elsewhere measured. All material purchased will be paid elsewhere as cost plus fee.						
1	Transformers					
1.1	D-DT-1862	Install 5-Pole Double Platform Mounted Transformer Structure	Each	R 3,260.22	R 0.00	R 0.00
1.2	D-DT-1863	Install 2-Pole Platform Mounted Transformer Structure	Each	R 2,942.07	R 0.00	R 0.00
1.3	D-DT-1864	Install 5-Pole Double Platform Mounted Transformer Structure (Out of Line)	Each	R 4,449.78	R 0.00	R 0.00
1.4	D-DT-1865	Install 2-Pole Platform Mounted Transformer Structure (Out of Line)	Each	R 2,942.07	R 0.00	R 0.00
1.5	D-DT-1865B	Transformer - Out of- Line 100kVA to 200kVA	Each	R 2,942.07	R 0.00	R 0.00
1.6	D-DT-1866	Install Single Pole Mounted Out of Line Transformer Structure (Out of Line)	Each	R 2,587.14	R 0.00	R 0.00
1.7	D-DT-1866B	Transformer - Out of- Line 16kVA to 100kVA/64kVA	Each	R 2,587.14	R 0.00	R 0.00
1.8	D-DT-3021	Relocate - 300-500kVA x 3-Phase	Each	R 9,929.43	R 0.00	R 0.00
1.9	D-DT-3021	Install Transformer - 300-500kVA x 3-Phase	Each	R 8,002.79	R 0.00	R 0.00
1.10	D-DT-3021	Relocate - 200kVA x 3-Phase	Each	R 4,823.71	R 0.00	R 0.00
1.11	D-DT-3021	Install Transformer - 200kVA x 3-Phase	Each	R 2,942.07	R 0.00	R 0.00
1.12	D-DT-3021	Relocate - 100kVA x 3-Phase	Each	R 4,823.71	R 0.00	R 0.00
1.13	D-DT-3021	Install Transformer - 100kVA x 3-Phase	Each	R 2,942.07	R 0.00	R 0.00
1.14	D-DT-3021	Relocate - 50kVA x 3-Phase	Each	R 2,979.71	R 0.00	R 0.00
1.15	D-DT-3021	Install Transformer - 50kVA x 3-Phase	Each	R 2,587.15	R 0.00	R 0.00
1.16	D-DT-3021	Relocate - 25kVA x 3-Phase	Each	R 2,979.71	R 0.00	R 0.00
1.17	D-DT-3021	Install Transformer - 25kVA x 3-Phase	Each	R 2,587.15	R 0.00	R 0.00
1.18	D-DT-3021	Relocate Transformer - 16kVA x 1-Phase	Each	R 2,979.71	R 0.00	R 0.00
1.19	D-DT-3021	Install Transformer - 16kVA x 1-Phase	Each	R 2,587.15	R 0.00	R 0.00
1.20		Install Labels (Chromadek)	Each	R 559.22	R 0.00	R 0.00
1.21	1860	Transformer - 5-100kVA Single Pole Mounted	Each	R 1,992.46	R 0.00	R 0.00
1.22	1861	TRANSFORMER - 100-200kVA / 2-POLE PLATFORM MOUNTED (H-POLE) GENERAL ARRANGEMENT	Each	R 2,067.93	R 0.00	R 0.00
2	Transformer MV Protection					
2.1	D-DT-1849	Equipment Links Cut-Outs Or Disconnectors 2.5m Wood Crossarm / Single Pole	Each	R 514.84	R 0.00	R 0.00
2.2	D-DT-1850	Section / Equipment Links Or Disconnectors 1.3m Steel Crossarm / Single Pole	Each	R 514.84	R 0.00	R 0.00
2.3	D-DT-1869	Section / Equipment Links Cut/Out Or Disconnectors 1.7m Steel Crossarm/Single Pole	Each	R 308.90	R 0.00	R 0.00
2.4	D-DT-0261	Install Surge Arresters (3-phase)	Each	R 416.96	R 0.00	R 0.00
2.5		Install Labels (Chromadek)	Each	R 559.22	R 0.00	R 0.00
3	Transformer LV Protection					
3.1	D-DT-0309	80A Morsdorf Type Fuses - 3-Phase	Set	R 228.04	R 0.00	R 0.00
3.2	D-DT-0309	125A Morsdorf Type Fuses - 3-Phase	Set	R 456.10	R 0.00	R 0.00
3.3	D-DT-0309	160A Morsdorf Type Fuses - 3-Phase	Set	R 456.10	R 0.00	R 0.00
3.4	D-DT-3034	150A MCCB - 3-Phase(Circuit breaker)	Each	R 456.10	R 0.00	R 0.00
3.5	D-DT-3034	300A MCCB - 3-Phase(Circuit breaker)	Each	R 499.50	R 0.00	R 0.00
3.6	0309	Three phase trf and LV fuse holder connection - ABC conductor-40A NH00	Set	R 134.34	R 0.00	R 0.00
3.7	0309	Three phase trf and LV fuse holder connection - ABC conductor-63A NH00	Set	R 134.34	R 0.00	R 0.00
3.8	0309	Dual phase trf and LV fuse holder connection - ABC conductor- 40A NH00	Set	R 134.34	R 0.00	R 0.00
3.9	0309	Dual phase trf and LV fuse holder connection - ABC conductor- 63A NH00	Set	R 134.34	R 0.00	R 0.00
3.10	0309	Dual phase trf and LV fuse holder connection - ABC conductor- 80A NH00	Set	R 228.04	R 0.00	R 0.00
3.11	0309	Dual phase trf and LV fuse holder connection - ABC conductor-125A NH00	Set	R 456.10	R 0.00	R 0.00
3.12	0309	Dual phase trf and LV fuse holder connection - ABC conductor-160A NH00	Set	R 456.10	R 0.00	R 0.00
3.13	0309	Single phase trf and LV fuse holder connection - ABC conductor-40A NH00	Set	R 134.34	R 0.00	R 0.00
3.14	0309	Single phase trf and LV fuse holder connection - ABC conductor-63A NH00	Set	R 134.34	R 0.00	R 0.00
3.15	0309	Single phase trf and LV fuse holder connection - ABC conductor-80A NH00	Set	R 228.04	R 0.00	R 0.00
3.16	0309	Single phase trf and LV fuse holder connection - ABC conductor-125A NH00	Set	R 456.10	R 0.00	R 0.00
3.17	0309	Single phase trf and LV fuse holder connection - ABC conductor-160A NH00	Set	R 456.10	R 0.00	R 0.00
3.18		Install Data Concentrator (Complete)	Each	R 145.15	R 0.00	R 0.00
3.19		Install Summation meter (Complete)	Each	R 145.15	R 0.00	R 0.00
3.20		Install Labels (Chromadek)	Each	R 559.22	R 0.00	R 0.00
4	Pole Mounted Sectionalizer					
4.1	D-DT-1821	Install Sectionalizer Structure	Each	R 1,155.99	R 0.00	R 0.00

4.2	D-DT-1828	Install Sectionalizer - Out-Of-Line Structure	Each	R 1,733.98	R 0.00	R 0.00
4.3	D-DT-1821	Install Sectionalizer	Each	R 1,733.98	R 0.00	R 0.00
4.4	D-DT-1848	Section Links Cut/Outs Or Disconnectors 2.5m Wood Crossarm / Single Pole	Each	R 308.90	R 0.00	R 0.00
4.5	D-DT-1852	Equipment Links - Cut-Outs Or Disconnectors - 3.5/4.5m Wood Crossarm / H-Pole	Each	R 514.84	R 0.00	R 0.00
4.6	D-DT-1853	Equipment Isolating (In-Out) Links - Cut-Outs Or Disconnectors - 2 x 2.5m Wood Crossarm / H-Pole	Each	R 926.70	R 0.00	R 0.00
4.7	D-DT-1854	Equipment Isolating (In-Out) Links - Cut-Outs Or Disconnectors - 4.5m Wood Crossarm / Out-Of-Line	Each	R 926.70	R 0.00	R 0.00
4.8	D-DT-1857	3 Phase Switch Disconnector Ganged, Link Stick Operated Horizontal Assembly H-Pole 1800 And 2200 Centres	Each	R 617.80	R 0.00	R 0.00
4.9	D-DT-1858	3 Phase Switch Disconnector Ganged, Link Stick Operated Assembly Single Pole Mounted	Each	R 617.80	R 0.00	R 0.00
4.10	D-DT-1875	Equipment Isolating (In-Out) Links Cut/Outs Or Disconnectors 2x2.4m Steel Crossarm / H-Pole	Each	R 926.70	R 0.00	R 0.00
4.11	D-DT-0261	Install Surge Arresters	Each	R 416.96	R 0.00	R 0.00
4.12		Install Labels (Chromadek)	Each	R 559.22	R 0.00	R 0.00
5		Pole Mounted Recloser				
5.1	D-DT-1825	Install Recloser Structure	Each	R 1,771.76	R 0.00	R 0.00
5.2	D-DT-1829	Install Recloser - Out-Of-Line Structure	Each	R 2,024.85	R 0.00	R 0.00
5.3	D-DT-0272	Install Recloser On Existing Structure	Each	R 2,024.85	R 0.00	R 0.00
5.4	D-DT-1848	Section Links Cut/Outs Or Disconnectors 2.5m Wood Crossarm / Single Pole	Each	R 308.90	R 0.00	R 0.00
5.5	D-DT-1852	Equipment Links - Cut-Outs Or Disconnectors - 3.5/4.5m Wood Crossarm / H-Pole	Each	R 514.84	R 0.00	R 0.00
5.6	D-DT-1853	Equipment Isolating (In-Out) Links - Cut-Outs Or Disconnectors - 2 x 2.5m Wood Crossarm / H-Pole	Each	R 926.70	R 0.00	R 0.00
5.7	D-DT-1854	Equipment Isolating (In-Out) Links - Cut-Outs Or Disconnectors - 4.5m Wood Crossarm / Out-Of-Line	Each	R 926.70	R 0.00	R 0.00
5.8	D-DT-1857	3 Phase Switch Disconnector Ganged, Link Stick Operated Horizontal Assembly H-Pole 1800 And 2200 Centres	Each	R 617.80	R 0.00	R 0.00
5.9	D-DT-1858	3 Phase Switch Disconnector Ganged, Link Stick Operated Assembly Single Pole Mounted	Each	R 617.80	R 0.00	R 0.00
5.10	D-DT-1875	Equipment Isolating (In-Out) Links Cut/Outs Or Disconnectors 2x2.4m Steel Crossarm / H-Pole	Each	R 926.70	R 0.00	R 0.00
5.11	D-DT-0270	Install Auxiliary Transformer	Each	R 2,587.15	R 0.00	R 0.00
5.12	D-DT-0261	Install Surge Arresters	Each	R 416.96	R 0.00	R 0.00
5.13		Install Labels (Chromadek)	Each	R 559.22	R 0.00	R 0.00
5.14	D-DT-1829B	Recloser structure – General arrangement (INCLUDING PMRTV) (sheet 1 of 2) (Bypass structure not included)	Each	R 2,358.75	R 0.00	R 0.00
6		Voltage Regulator				
6.1	D-DT-1830	Install Voltage Regulator - 11/22kV 100/200A Open Delta Structure	Each	R 2,406.78	R 0.00	R 0.00
6.2	D-DT-1831	Install Voltage Regulator - 11/22kV 100/200A Closed Delta Structure	Each	R 2,406.78	R 0.00	R 0.00
6.3	D-DT-1833	Install Voltage Regulator - 11/22kV 100/200A Open Delta - Out-Of-Line Structure	Each	R 2,750.61	R 0.00	R 0.00
6.4	1833B	Regulator - 100 / 200A Open Delta – General Arrangement (sheet 1 of 3)	Each	R 3,204.18	R 0.00	R 0.00
6.5	D-DT-1834	Install Voltage Regulator - 11/22kV 100/200A Closed Delta - Out-Of-Line Structure	Each	R 2,750.61	R 0.00	R 0.00
6.6	1834B	Regulator - 100 / 200A Closed Delta - General Arrangement (Sheet 1 of 2)	Each	R 3,204.18	R 0.00	R 0.00
6.7	D-DT-3119	Install Voltage Regulator On Existing Structure	Each	R 3,204.18	R 0.00	R 0.00
6.8	D-DT-1848	Section Links Cut/Outs Or Disconnectors 2.5m Wood Crossarm / Single Pole	Each	R 308.90	R 0.00	R 0.00
6.9	D-DT-1851	Equipment Links - Cut-Outs Or Disconnectors - 2.5m Wood Crossarm / H-Pole	Each	R 308.90	R 0.00	R 0.00
6.10	D-DT-1852	Equipment Links - Cut-Outs Or Disconnectors - 3.5/4.5m Wood Crossarm / H-Pole	Each	R 514.84	R 0.00	R 0.00
6.11	D-DT-1854	Equipment Isolating (In-Out) Links - Cut-Outs Or Disconnectors - 4.5m Wood Crossarm / Out-Of-Line	Each	R 514.84	R 0.00	R 0.00
6.12	D-DT-1857	3 Phase Switch Disconnector Ganged, Link Stick Operated Horizontal Assembly H-Pole 1800 And 2200 Centres	Each	R 617.80	R 0.00	R 0.00
6.13	D-DT-1858	3 Phase Switch Disconnector Ganged, Link Stick Operated Assembly Single Pole Mounted	Each	R 617.80	R 0.00	R 0.00
6.14	D-DT-1874	Equipment Links Or Disconnectors 2.4m Steel Crossarm / H-Pole	Each	R 926.70	R 0.00	R 0.00
6.15	D-DT-0261	Install Surge Arresters	Each	R 416.96	R 0.00	R 0.00
6.16		Install Labels (Chromadek)	Each	R 559.22	R 0.00	R 0.00
7		Pole Mounted CT-VT Unit				
7.1	D-DT-1839	Install MV CT / VT Metering Bulk Tariff Out-Of-Line Structure	Each	R 2,024.85	R 0.00	R 0.00
7.2	D-DT-1840	Install MV CT / VT Metering Bulk Tariff In Line Structure	Each	R 2,024.85	R 0.00	R 0.00
7.3	D-DT-1841	Install CT/VT Metering Statistical Structure	Each	R 2,406.78	R 0.00	R 0.00
7.4	D-DT-1846	Install CT/VT Metering Statistical Out-Of-Line Structure	Each	R 2,406.78	R 0.00	R 0.00
7.5	D-DT-3118	Install CT/VT unit	Each	R 2,750.61	R 0.00	R 0.00
7.6	D-DT-1848	Section Links Cut/Outs Or Disconnectors 2.5m Wood Crossarm / Single Pole	Each	R 308.90	R 0.00	R 0.00
7.7	D-DT-1850	Section / Equipment Links Or Disconnectors 1.3m Steel Crossarm / Single Pole	Each	R 234.71	R 0.00	R 0.00
7.8	D-DT-1852	Equipment Links - Cut-Outs Or Disconnectors - 3.5/4.5m Wood Crossarm / H-Pole	Each	R 514.84	R 0.00	R 0.00
7.9	D-DT-1853	Equipment Isolating (In-Out) Links - Cut-Outs Or Disconnectors - 2 x 2.5m Wood Crossarm / H-Pole	Each	R 926.70	R 0.00	R 0.00
7.10	D-DT-1854	Equipment Isolating (In-Out) Links - Cut-Outs Or Disconnectors - 4.5m Wood Crossarm / Out-Of-Line	Each	R 514.84	R 0.00	R 0.00
7.11	D-DT-1857	3 Phase Switch Disconnector Ganged, Link Stick Operated Horizontal Assembly H-Pole 1800 And 2200 Centres	Each	R 617.80	R 0.00	R 0.00
7.12	D-DT-1858	3 Phase Switch Disconnector Ganged, Link Stick Operated Assembly Single Pole Mounted	Each	R 617.80	R 0.00	R 0.00
7.13	D-DT-1875	Equipment Isolating (In-Out) Links Cut/Outs Or Disconnectors 2x2.4m Steel Crossarm / H-Pole	Each	R 926.70	R 0.00	R 0.00
7.14	D-DT-3236	Install CT/VT Metering Kiosk	Each	R 175.17	R 0.00	R 0.00
7.15	D-DT-0261	Install Surge Arresters	Each	R 416.96	R 0.00	R 0.00
7.16		Install Labels (Chromadek)	Each	R 559.22	R 0.00	R 0.00
8		Pole Mounted Shunt Capacitor Banks				
8.1	D-DT-1832	Install Capacitor Structure	Each	R 2,750.61	R 0.00	R 0.00
8.2	D-DT-3218	Install Capacitor Bank	Each	R 2,750.61	R 0.00	R 0.00
8.3	D-DT-1849	Equipment Links Cut-Outs Or Disconnectors 2.5m Wood Crossarm / Single Pole	Each	R 514.84	R 0.00	R 0.00
8.4	D-DT-1850	Section / Equipment Links Or Disconnectors 1.3m Steel Crossarm / Single Pole	Each	R 514.84	R 0.00	R 0.00
8.5	D-DT-0261	Install Surge Arresters	Each	R 416.96	R 0.00	R 0.00
8.6		Install Labels (Chromadek)	Each	R 559.22	R 0.00	R 0.00
9		Line Arrester				
9.1		Install Equipment Links	Each	R 692.49	R 0.00	R 0.00
9.2	D-DT-1842	Line Arresters 1.3m Long Steel Crossarm Staggered Vertical Configuration	Each	R 416.96	R 0.00	R 0.00
9.3	D-DT-1843	Line Arresters 2.5m Long Wooden Crossarm Vertical Configuration	Each	R 416.96	R 0.00	R 0.00
9.4	D-DT-1844	Line Arresters H-Pole Configuration	Each	R 482.29	R 0.00	R 0.00
9.5	D-DT-1845	Line Arresters Delta Configuration	Each	R 416.96	R 0.00	R 0.00
9.6		Install Labels (Chromadek)	Each	R 559.22	R 0.00	R 0.00
10		3 Phase Sectional Links				
10.1	D-DT-1847	Section Links Cut/Outs Or Disconnectors 3.5/4.5m Wood Crossarm / H-Pole	Each	R 514.84	R 0.00	R 0.00

10.2	D-DT-1848	Section Links Cut/Outs Or Disconnectors 2.5m Wood Crossarm / Single Pole	Each	R 308.90	R 0.00	R 0.00
10.3	D-DT-1850	Section / Equipment Links Or Disconnectors 1.3m Steel Crossarm / Single Pole		R 308.90	R 0.00	R 0.00
10.4	D-DT-1857	3 Phase Switch Disconnector Ganged, Link Stick Operated Horizontal Assembly H-Pole 1800 And 2200 Centres	Each	R 617.80	R 0.00	R 0.00
10.5	D-DT-1858	3 Phase Switch Disconnector Ganged, Link Stick Operated Assembly Single Pole Mounted	Each	R 617.80	R 0.00	R 0.00
10.6	D-DT-1869	Section / Equipment Links Cut/Out Or Disconnectors 1.7m Steel Crossarm/Single Pole	Each	R 308.90	R 0.00	R 0.00
10.7		Install Labels (Chromadek)	Each	R 559.22	R 0.00	R 0.00
11		Bird Flight Diverter				
11.1	D-DT-3029	Install Bird Flight Diverter	Each	R 8.47	R 0.00	R 0.00
12		Miniature Substation				
12.1		Prepare Site Including Excavation and Compaction for Pre-Cast Plinth	m ²	R 420.40	R 0.00	R 0.00
12.2	D-DT-0859	Install Pre-Cast Plinth	Each	R 5,651.77	R 0.00	R 0.00
12.3	D-DT-0859	Install Miniature Substation	Each	R 2,426.15	R 0.00	R 0.00
12.4	D-DT-3034	MCCB - 3-Phase	Each	R 499.50	R 0.00	R 0.00
12.5		Vermin Proofing	Each	R 560.85	R 0.00	R 0.00
12.6		Stenciling	Each	R 21.41	R 0.00	R 0.00
12.7		Install Labels (Chromadek and Aluminium)	SET	R 559.22	R 0.00	R 0.00
12.8	D-DT-3409	Install Vertical Fuse Pillar	Each	R 272.16	R 0.00	R 0.00
12.9	D-DT-3181	Install NH02 Fuse	Each	R 272.16	R 0.00	R 0.00
13		Ring Main Unit				
13.1		Prepare Site Including Excavation and Compaction for Pre-Cast Plinth	m ²	R 420.40	R 0.00	R 0.00
13.2	D-DT-0863	Install Pre-Cast Plinth	Each	R 2,854.29	R 0.00	R 0.00
13.3	D-DT-8060	Install Ring Main Unit	Each	R 1,712.57	R 0.00	R 0.00
13.4		Vermin Proofing	Each	R 560.85	R 0.00	R 0.00
13.5		Stenciling	p/letter	R 21.41	R 0.00	R 0.00
13.6		Install Labels (Chromadek)	Each	R 559.22	R 0.00	R 0.00
14		Ground Mounted CT-VT Unit				
14.1		Prepare Site Including Excavation and Compaction for Pre-Cast Plinth	m ²	R 420.40	R 0.00	R 0.00
14.2	D-DT-0865	Install Pre-Cast Plinth	Each	R 2,854.29	R 0.00	R 0.00
14.3	D-DT-0865	Install CT-VT Unit	Each	R 1,213.07	R 0.00	R 0.00
14.4		Vermin Proofing	Each	R 560.85	R 0.00	R 0.00
14.5		Stenciling	p/letter	R 21.41	R 0.00	R 0.00
14.6		Install Labels (Chromadek)	Each	R 559.22	R 0.00	R 0.00
15		Meter Kiosk				
15.1		Prepare Site Including Excavation and Compaction for Pre-Cast Plinth	m ²	R 420.40	R 0.00	R 0.00
15.2	D-DT-0865	Install Pre-Cast Plinth	Each	R 3,353.79	R 0.00	R 0.00
15.3	D-DT-0865	Install LPU Meter Kiosk	Each	R 175.17	R 0.00	R 0.00
15.4	D-DT-3236	4 Way High Risk Steel Kiosk	Each	R 860.42	R 0.00	R 0.00
15.5	D-DT-3236	6 Way High Risk Steel Kiosk	Each	R 860.42	R 0.00	R 0.00
15.6	D-DT-3236	8 Way High Risk Steel Kiosk	Each	R 860.42	R 0.00	R 0.00
15.7	D-DT-3236	12 Way High Risk Steel Kiosk	Each	R 860.42	R 0.00	R 0.00
15.8		Energy Management Units (Meter)	Each	R 490.07	R 0.00	R 0.00
15.9		Vermin Proofing	Each	R 560.85	R 0.00	R 0.00
15.10		Stenciling	p/letter	R 21.41	R 0.00	R 0.00
15.11		Install Labels (Chromadek)	Each	R 559.22	R 0.00	R 0.00
SUB-TOTAL K						R 0.00
L		EARTHING INSTALLATION				
MV & LV Earthing Trenching shall include Excavation, Backfilling, Compaction and Installation of electrode and conductor as per the Eskom Standard for Earthing						
1		Transformer - MV Earthing				
1.1		Excavation - length long, 0.5m deep and 0.6m wide	m ³	R 178.39	R 0.00	R 0.00
1.2	D-DT-3139	16mm sq. Bare Stranded Cu Conductor	m	R 14.27	R 0.00	R 0.00
1.3	D-DT-3137	16mm sq. Insulated Stranded Cu Conductor	m	R 14.27	R 0.00	R 0.00
1.4	D-DT-3091	Earth Electrode (Type as per the design)	Each	R 299.70	R 0.00	R 0.00
1.5		Backfill - length long, 0.5m deep and 0.6m wide	m ³	R 145.57	R 0.00	R 0.00
2		Transformer - LV Earthing				
2.1		Excavation - length long, 0.5m deep and 0.6m wide	m ³	R 178.39	R 0.00	R 0.00
2.2	D-DT-3139	16mm sq. Bare Stranded Cu Conductor	m	R 14.27	R 0.00	R 0.00
2.3	D-DT-3137	16mm sq. Insulated Stranded Cu Conductor	m	R 14.27	R 0.00	R 0.00
2.4	D-DT-3091	Earth Electrode (Type as per the design)	Each	R 299.70	R 0.00	R 0.00
2.5		Backfill - length long, 0.5m deep and 0.6m wide	m ³	R 145.57	R 0.00	R 0.00
3		Other Overhead System Equipment Earthing - Capacitor Bank / CT-VT Unit / Line Arrester / Recloser / Sectionalizer / Voltage Regulator				
3.1		Excavation - length long, 0.5m deep and 0.6m wide	m ³	R 178.39	R 0.00	R 0.00
3.2	D-DT-3139	16mm sq. Bare Stranded Cu Conductor	m	R 14.27	R 0.00	R 0.00
3.3	D-DT-3137	16mm sq. Insulated Stranded Cu Conductor	m	R 14.27	R 0.00	R 0.00
3.4	D-DT-3091	Earth Electrode (Type as per the design)	Each	R 299.70	R 0.00	R 0.00
3.5		Backfill - length long, 0.5m deep and 0.6m wide	m ³	R 145.57	R 0.00	R 0.00
4		Other Underground System Equipment Earthing - Miniature Substation / Ring Main Unit / CT-VT Unit				
4.1		Excavation - length long, 0.5m deep and 0.6m wide	m ³	R 178.39	R 0.00	R 0.00
4.2	D-DT-3139	16mm sq. Bare Stranded Cu Conductor	m	R 14.27	R 0.00	R 0.00
4.3	D-DT-3091	Earth Electrode (Type as per the design)	Each	R 299.70	R 0.00	R 0.00
4.4		Backfill - length long, 0.5m deep and 0.6m wide	m ³	R 145.57	R 0.00	R 0.00
5		Earthing Installation excluding trenching				
5.1	D-DT-3066	MV Earthing (Type 1 Crowfoot)	Each	R 3,386.85	R 0.00	R 0.00
5.2	D-DT-3066	MV Earthing (Type 2 Crowfoot)	Each	R 3,749.73	R 0.00	R 0.00
5.3	D-DT-3066	MV Earthing (Type 3 Crowfoot)	Each	R 4,112.60	R 0.00	R 0.00
5.4	D-DT-3066	MV Earthing (Type 4 Crowfoot)	Each	R 4,354.52	R 0.00	R 0.00
SUB-TOTAL - L						R 0.00
M		SERVICE CONNECTION INSTALLATION				
House Connections include installation of ready board, mounting hardware, wooden backboards, customer interface units, conduit pipe, excavations and backfilling of underground connection, capturing of customer data including GPS coordinates. Digging and bulleting for road crossing including installation of sleeves and warning tape are measured here						
1.1	D-DT-0360	Overhead service connection direct to dwelling (from the pole top box to the pre-paid meter) (Type A) to brick dwelling	Each	R 87.13	R 0.00	R 0.00
1.2	D-DT-0360	Overhead service connection with service pole (from the pole top box to the pre-paid meter) (Type B) to mud dwelling	Each	R 87.13	R 0.00	R 0.00
1.3	D-DT-0367	Underground Service Connection	Each	R 593.67	R 0.00	R 0.00
1.4		25mm Conduit LDPE Pipe	m	R 178.39	R 0.00	R 0.00
1.5	D-DT-0854	Excavation - 0.75m Deep and 0.45 Wide	m ³	R 178.39	R 0.00	R 0.00
1.6		Road Crossing - Digging	m	R 1,120.31	R 0.00	R 0.00
1.7		Road Crossing - Bulleting	Each	R 509.95	R 0.00	R 0.00
1.8	D-DT-8018	Install Sleeves	m	R 5.71	R 0.00	R 0.00
1.9	D-DT-0854	Laying of Warning Tape	m	R 3.33	R 0.00	R 0.00
1.10	D-DT-0854	Backfill - 0.75m Deep and 0.45 Wide	m ³	R 145.57	R 0.00	R 0.00

2		Split / Smart Metering				
2.1	D-DT-3145	Customer Interface Unit	Each	R 42.34	R 0.00	R 0.00
2.2	D-DT-3176	Split Meter Ready-Board	Each	R 214.07	R 0.00	R 0.00
2.3	D-ST-2351	Wooden Backboard for Ready board mounting (for Tin and Mud houses)	Each	R 178.39	R 0.00	R 0.00
2.4		Split Meter Installation	Each	R 393.12	R 0.00	R 0.00
2.5		Capture and Upload of Customer Data New & Existing Including GPS Coordinates	Each	R11.76	R 0.00	R 0.00
SUB-TOTAL M						R 0.00
N		Service Conductor Installation: Accessories for Service Conductor installation shall include installation of pigtails, bolts, strain clamps, threaded rod, cable saddles, stringing of all types of service cable. Installation of poles and its accessories are measured elsewhere				
1	D-DT-3140	6mm sq Tinned Copper Airdac with Communication Core	m	R2.59	R 0.00	R 0.00
3	D-DT-0384	Kicker Pole Dressing	Each	R33.13	R 0.00	R 0.00
4	D-DT-0384	Shack Pole Dressing	Each	R33.13	R 0.00	R 0.00
5	D-DT-3128	16mm sq Underground	m	R7.79	R 0.00	R 0.00
6	0366	Service suspension assembly	Each	R 29.59	R 0.00	R 0.00
7	0384	Service strain assembly/arrangement	Each	R 59.18	R 0.00	R 0.00
SUB-TOTAL N						R 0.00
O		Underground Cable Installation: installation of underground cable include trenching for excavation in general trench, rail/road crossing or along the road, directional drilling & excavation for end pits, backfilling of trench, supply of accessories includes appropriate sleeves, supply & compaction of imported bedding and blanket soil. Laying of warning tape and installation of cable route markers. Laying of cable shall be in accordance with Eskom standard of laying cables. After the execution of the works, reinstatement on gardens, pavements, driveways and tarred surfaces shall be measured here				
1		Trenching				
1.1	D-DT-0854	Excavation - General Trench - 1.0m Deep and 0.45m Wide	m ³	R178.39	R0.00	R0.00
1.2	D-DT-0854	Excavation - Rail/Road Crossing Trench - 1.6m Deep and 0.45m Wide	m ³	R178.39	R0.00	R0.00
1.3	D-DT-0854	Excavation - Along The Road Trench - 1.3m Deep and 0.45m Wide	m ³	R178.39	R0.00	R0.00
1.4		Install Barricading	m	R49.95	R0.00	R0.00
1.5		Install Shoring	m	R272.16	R0.00	R0.00
1.6	D-DT-0854	Compact Blanket Soil	m ²	R145.57	R 0.00	R 0.00
1.7	D-DT-0854	Sifted Soil - 0.25m High and 0.45m Wide	m ²	R 145.57	R 0.00	R 0.00
1.8		Dispose of unused Excavated Material at approved disposal site	m ³	R 296.35	R 0.00	R 0.00
1.9	D-DT-0854	Imported Soil - 0.25m High and 0.45m Wide	m ³	R 463.82	R 0.00	R 0.00
2		Road & Rail Crossing				
2.1		Directional Drilling (Supply Invoice + 5%)	m	R 0.00	R 0.00	R 0.00
2.2		Excavate Start and End Pits	m ³	R 178.39	R 0.00	R 0.00
2.3		Supply and Install appropriate sleeve	Each	R 388.99	R 0.00	R 0.00
2.4		Rail, river and Road -pipe jacking method including access holes, shoring as well as handling of equipment-(outsourced) Supply Invoice + 5%	m	R 0.00	R 0.00	R 0.00
3		Road crossing trench import of backfill material and compaction				
3.1	D-DT0854	Application of tar according to municipal standard - Supply Invoice + 5%	m ²	R 0.00	R 0.00	R 0.00
3.2		Bedding soil for cable	m	R 15.98	R 0.00	R 0.00
3.3		Blanket soil for cable	m ³	R 15.98	R 0.00	R 0.00
3.4		G5 filling for cable	m ³	R 21.31	R 0.00	R 0.00
4		Compacting Bedding Soil				
4.1	D-DT-0854	Sifted Soil - 0.15m High and 0.45m Wide	m ²	R 145.57	R 0.00	R 0.00
4.2	D-DT-0854	Imported Soil - 0.15m High and 0.45m Wide	m ²	R 421.01	R 0.00	R 0.00
5		Laying of Cable				
5.1	D-DT-0854	Laying of 3-Core 50mm sq. MV Cable	m	R 21.41	R 0.00	R 0.00
5.2	D-DT-0854	Laying of 3-Core 95mm sq. MV Cable	m	R 48.38	R 0.00	R 0.00
5.3	D-DT-0854	Laying of 3-Core 185mm sq. MV Cable	m	R 78.62	R 0.00	R 0.00
5.4	D-DT-0854	Laying of 3-Core 300mm sq. MV Cable	m	R 145.15	R 0.00	R 0.00
5.5	D-DT-0854	Laying of 4-Core 16mm sq. LV Cable	m	R 21.41	R 0.00	R 0.00
5.6	D-DT-0854	Laying of 4-Core 25mm sq. LV Cable	m	R 21.41	R 0.00	R 0.00
5.7	D-DT-0854	Laying of 4-Core 35mm sq. LV Cable	m	R 21.41	R 0.00	R 0.00
5.8	D-DT-0854	Laying of 4-Core 50mm sq. LV Cable	m	R 21.41	R 0.00	R 0.00
5.9	D-DT-0854	Laying of 4-Core 70mm sq. LV Cable	m	R 42.34	R 0.00	R 0.00
5.10	D-DT-0854	Laying of 4-Core 120mm sq. LV Cable	m	R 70.16	R 0.00	R 0.00
5.11	D-DT-0854	Laying of 4-Core 185mm sq. LV Cable	m	R 78.62	R 0.00	R 0.00
5.12	D-DT-0854	Laying of 4-Core 240mm sq. LV Cable	m	R 145.15	R 0.00	R 0.00
6		Compacting Blanket Soil				
6.1	D-DT-0854	Sifted Soil - 0.25m High and 0.45m Wide	m ²	R 145.57	R 0.00	R 0.00
6.2	D-DT-0854	Imported Soil - 0.25m High and 0.45m Wide	m ²	R 421.01	R 0.00	R 0.00
7		Backfilling of the Cable Trench				
7.1	D-DT-0854	General Trench - 0.6m High and 0.45m Wide	m ³	R 145.57	R 0.00	R 0.00
7.2	D-DT-0854	Rail/Road Crossing Trench - 1.2m High and 0.45m Wide	m ³	R 145.57	R 0.00	R 0.00
7.3	D-DT-0854	Along The Road Trench - 0.9m High and 0.45m Wide	m ³	R 145.57	R 0.00	R 0.00
7.4	D-DT-0854	Laying of Warning Tape	m	R 3.33	R 0.00	R 0.00
7.5	D-DT-8012	Installation of Cable Route Markers	Each	R 171.26	R 0.00	R 0.00
7.6		Re-instatement of Gardens	m ²	R 272.75	R 0.00	R 0.00
7.7		Re-instatement of Pavements	m ²	R 328.32	R 0.00	R 0.00
7.8		Re-instatement of Driveways	m ²	R 2,090.77	R 0.00	R 0.00
7.9		Re-instatement of Tarred surfaces	m ²	R 934.78	R 0.00	R 0.00
SUB-TOTAL O						R 0.00
P		MV/LV CABLE TERMINATION				
Termination of cable shall be done in accordance with Eskom standard of terminating cables for the termination onto air-filled cable, termination onto overhead line cable in their deferent classifications. Termination material are free issue, unless otherwise ordered and/or specified by the Project Manger to supply all accessories on an as and when required basis as cost plus fee.						
1		LV Cable Termination onto Air-Filled Cable Termination Enclosure				
1.1		Install 2-Core 16mm sq. LV Bare Termination	Each	R 1,512.77	R 0.00	R 0.00
1.2		Install 4-Core 16mm sq. LV Bare Termination	Each	R 1,512.77	R 0.00	R 0.00
1.3		Install 4-Core 25mm sq. LV Bare Termination	Each	R 1,512.77	R 0.00	R 0.00
1.4		Install 4-Core 35mm sq. LV Bare Termination	Each	R 1,512.77	R 0.00	R 0.00
1.5		Install 4-Core 50mm sq. LV Bare Termination	Each	R 1,512.77	R 0.00	R 0.00
1.6		Install 4-Core 70mm sq. LV Bare Termination	Each	R 1,512.77	R 0.00	R 0.00
1.7		Install 4-Core 120mm sq. LV Bare Termination	Each	R 1,512.77	R 0.00	R 0.00
1.8		Install 4-Core 185mm sq. LV Bare Termination	Each	R 1,512.77	R 0.00	R 0.00
1.9		Install 4-Core 240mm sq. LV Bare Termination	Each	R 1,512.77	R 0.00	R 0.00
1.10		Install 3-Core 50mm sq. Shrouded Termination	Each	R 1,512.77	R 0.00	R 0.00
2		MV Cable Termination onto Air-Filled Cable Termination Enclosure				
2.1	D-DT-8011	Install 3-Core 50mm sq. Shrouded Termination	Each	R 1,512.77	R 0.00	R 0.00
2.2	D-DT-8006	Install 3-Core 50mm sq. Unscreened Separable Connector Termination	Each	R 1,926.65	R 0.00	R 0.00
2.3	D-DT-8006	Install 3-Core 50mm sq. Unscreened Separable Connector Extended Screen Termination	Each	R 1,926.65	R 0.00	R 0.00
2.4	D-DT-8006	Install 3-Core 50mm sq. Screened Separable Connector Termination	Each	R 1,926.65	R 0.00	R 0.00

2.5	D-DT-8011	Install 3-Core 95mm sq. Shrouded Termination	Each	R 1,512.77	R 0.00	R 0.00
2.6	D-DT-8006	Install 3-Core 95mm sq. Unscreened Separable Connector Termination	Each	R 1,926.65	R 0.00	R 0.00
2.7	D-DT-8006	Install 3-Core 95mm sq. Unscreened Separable Connector Extended Screen Termination	Each	R 1,926.65	R 0.00	R 0.00
2.8	D-DT-8006	Install 3-Core 95mm sq. Screened Separable Connector Termination	Each	R 1,926.65	R 0.00	R 0.00
2.9	D-DT-8011	Install 3-Core 185mm sq. Shrouded Termination	Each	R 1,512.77	R 0.00	R 0.00
2.10	D-DT-8006	Install 3-Core 185mm sq. Unscreened Separable Connector Termination	Each	R 1,926.65	R 0.00	R 0.00
2.11	D-DT-8006	Install 3-Core 185mm sq. Unscreened Separable Connector Extended Screen Termination	Each	R 1,926.65	R 0.00	R 0.00
2.12	D-DT-8006	Install 3-Core 185mm sq. Screened Separable Connector Termination	Each	R 2,105.04	R 0.00	R 0.00
2.13	D-DT-8011	Install 3-Core 300mm sq. Shrouded Termination	Each	R 1,512.77	R 0.00	R 0.00
2.14	D-DT-8006	Install 3-Core 300mm sq. Unscreened Separable Connector Termination	Each	R 1,926.65	R 0.00	R 0.00
2.15	D-DT-8006	Install 3-Core 300mm sq. Unscreened Separable Connector Extended Screen Termination	Each	R 1,926.65	R 0.00	R 0.00
2.16	D-DT-8006	Install 3-Core 300mm sq. Screened Separable Connector Termination	Each	R 2,105.04	R 0.00	R 0.00
3		MV Cable Termination onto Overhead Line from Substation				
3.1	D-DT-0850	Install 50mm sq O/D Termination	Each	R 1,080.07	R 0.00	R 0.00
3.2	D-DT-0851	Install 50mm sq O/D Termination	Each	R 1,080.07	R 0.00	R 0.00
3.3	D-DT-0850	Install 95mm sq O/D Termination	Each	R 1,080.07	R 0.00	R 0.00
3.4	D-DT-0851	Install 95mm sq O/D Termination	Each	R 1,080.07	R 0.00	R 0.00
3.5	D-DT-0850	Install 185mm sq O/D Termination	Each	R 1,080.07	R 0.00	R 0.00
3.6	D-DT-0851	Install 185mm sq O/D Termination	Each	R 1,080.07	R 0.00	R 0.00
3.7	D-DT-0850	Install 300mm sq O/D Termination	Each	R 1,080.07	R 0.00	R 0.00
3.8	D-DT-0851	Install 300mm sq O/D Termination	Each	R 1,080.07	R 0.00	R 0.00
3.9	D-DT-1850	Install Equipment Links - 3-Phase	Each	R 1,080.07	R 0.00	R 0.00
3.10	D-DT-0261	Install Surge Arresters - 3-Phase	Each	R 416.96	R 0.00	R 0.00
3.11	D-DT-8023	Install a Steel Pipe	Each	R 356.79	R 0.00	R 0.00
SUB-TOTAL P						R 0.00
Q		CABLE JOINT				
Cable joint bay shall be executed in accordance with Eskom standard of jointing cables in their different classifications. Joint bay materials including kits are free issue, unless otherwise ordered and/or specified by the Project Manger to supply all accessories on an as and when required basis and paid as cost plus fee. Excavations, compaction and backfilling of cable joints bay shall be measured here including supply of imported soil in bedding and blankets or sifted soil where specified.						
1.1	D-DT-0854	Excavate a Joint Bay	m ²	R 178.39	R 0.00	R 0.00
1.2	D-DT-0854	Compact Bedding Soil	m ²	R 145.57	R 0.00	R 0.00
1.3	D-DT-0854	Sifted Soil - 0.15m High and 0.45m Wide	m ²	R 145.57	R 0.00	R 0.00
1.4	D-DT-0854	Dispose of Excavated Material at approved disposal site	m ³	R 296.35	R 0.00	R 0.00
1.5	D-DT-0854	Imported Soil - 0.15m High and 0.45m Wide	m ²	R 421.01	R 0.00	R 0.00
1.6	D-DT-8008	Make-Off a Cable Joint - 3-Core 16mm sq MV Cable	Each	R 111.52	R 0.00	R 0.00
1.6	D-DT-8008	Make-Off a Cable Joint - 3-Core 50mm sq MV Cable	Each	R 111.52	R 0.00	R 0.00
1.6	D-DT-8008	Make-Off a Cable Joint - 3-Core 95mm sq MV Cable	Each	R 111.52	R 0.00	R 0.00
1.7	D-DT-8008	Make-Off a Cable Joint - 3-Core 185mm sq MV Cable	Each	R 111.52	R 0.00	R 0.00
1.8	D-DT-8008	Make-Off a Cable Joint - 3-Core 300mm sq MV Cable	Each	R 111.52	R 0.00	R 0.00
1.9	D-DT-8014	Make-Off a Cable Joint - 4-Core 16mm sq LV Cable	Each	R 111.52	R 0.00	R 0.00
1.10	D-DT-8014	Make-Off a Cable Joint - 4-Core 25mm sq LV Cable	Each	R 111.52	R 0.00	R 0.00
1.10	D-DT-8014	Make-Off a Cable Joint - 4-Core 35mm sq LV Cable	Each	R 111.52	R 0.00	R 0.00
1.10	D-DT-8014	Make-Off a Cable Joint - 4-Core 50mm sq LV Cable	Each	R 111.52	R 0.00	R 0.00
1.11	D-DT-8014	Make-Off a Cable Joint - 4-Core 70mm sq LV Cable	Each	R 111.52	R 0.00	R 0.00
1.12	D-DT-8014	Make-Off a Cable Joint - 4-Core 120mm sq LV Cable	Each	R 111.52	R 0.00	R 0.00
1.13	D-DT-8014	Make-Off a Cable Joint - 4-Core 185mm sq LV Cable	Each	R 111.52	R 0.00	R 0.00
1.13	D-DT-8014	Make-Off a Cable Joint - 4-Core 240mm sq LV Cable	Each	R 111.52	R 0.00	R 0.00
1.18	D-DT-0854	Backfill a Joint Bay	m ³	R 145.57	R 0.00	R 0.00
1.19	D-DT-8012	Install a Route Marker	Each	R 171.26	R 0.00	R 0.00
SUB-TOTAL Q						R 0.00
R		EQUIPMENT DISMANTLING				
Includes Cut Up, Coiling And Loading But Excludes Transport To The Nearest Eskom Stores						
1.1		Dismantle LV Conductor	m	R 5.71	R 0.00	R 0.00
1.2		Dismantle MV Conductor	m	R 5.71	R 0.00	R 0.00
1.3		Dismantle Service Cable	m	R 3.81	R 0.00	R 0.00
1.4		Dismantle MV Overhead Transformers	Each	R 499.50	R 0.00	R 0.00
1.5		Dismantle MV Overhead Sectionalizer	Each	R 499.50	R 0.00	R 0.00
1.6		Dismantle MV Overhead Reclosers	Each	R 499.50	R 0.00	R 0.00
1.7		Dismantle MV Pole Mounted CT-VT Unit	Each	R 499.50	R 0.00	R 0.00
1.8		Dismantle MV Pole Mounted Shunt Capacitor Banks	Each	R 499.50	R 0.00	R 0.00
1.9		Dismantle MV Line Arrestor	Each	R 481.02	R 0.00	R 0.00
1.10		Dismantle MV Overhead Section / Equipment Links	Each	R 481.02	R 0.00	R 0.00
1.11		Remove LV Pole Top Boxes	Each	R 430.18	R 0.00	R 0.00
1.12		Dismantle Stays	Each	R 315.84	R 0.00	R 0.00
1.13		Dismantle Poles	Each	R 290.70	R 0.00	R 0.00
1.14		Remove MV Cable, includes excavation and backfill	m	R 214.10	R 0.00	R 0.00
1.15		Remove LV Cable, includes excavation and backfill	m	R 214.10	R 0.00	R 0.00
1.16		Remove MV Cable I/D Terminations	Each	R 442.42	R 0.00	R 0.00
1.17		Remove MV Cable O/D Terminations	Each	R 442.42	R 0.00	R 0.00
1.18		Remove RMU	Each	R 3,567.86	R 0.00	R 0.00
1.19		Remove Minisub	Each	R 3,567.86	R 0.00	R 0.00
1.20		Remove Ground Mounted CT-VT Unit	Each	R 2,116.35	R 0.00	R 0.00
1.21		Remove LV Kiosks	Each	R 148.89	R 0.00	R 0.00
1.22		Remove Plinths	Each	R 2,237.31	R 0.00	R 0.00
1.23		Transport Of Dismantled/Decommissioned To Eskom Stores	KM	R 26.68	R 0.00	R 0.00
1.28		Removal of a post / pin insulator	Each	R 29.59	R 0.00	R 0.00
1.30		Removal of SPU unit with rails	Each	R 29.59	R 0.00	R 0.00
1.31		Removal of LPU unit (indoor and outdoor)	No	R 29.59	R 0.00	R 0.00
1.33		Moving of pre-Paid Meter (Meter Shifting)	Each	R 88.77	R 0.00	R 0.00
1.39		Removal of ED / ECU	Each	R 90.55	R 0.00	R 0.00
1.41		AP4 Meter Box + Pipe	Each	R 135.82	R 0.00	R 0.00
1.42		Removal - complete of one Regulator can/voltage regulator	Each	R 158.90	R 0.00	R 0.00
2		BIL & BONDING				
2.1		Re-instate broken/damage bonding & BIL on existing structure	No	R 59.18	R 0.00	R 0.00
SUB-TOTAL R						R 0.00
S		LABELLING				
Allow for the following end items to be applied as per relevant Eskom Instructions/Bulletins/Procedures and Standards where not already allowed for in Structure Package						
1.1		MV Pole Number	Each	R 21.41	R 0.00	R 0.00
1.2		LV Pole Number	Each	R 21.41	R 0.00	R 0.00
1.3		Meter Number	Each	R 21.41	R 0.00	R 0.00
SUB-TOTAL S						R 0.00
T		EQUIPMENT TESTING				
Allowance shall be made for the complete testing and commissioning of Medium Voltage equipment. Tests to include earth electrode resistance measurement. Transformer to include a LV earth electrode resistance measurement. Soil Resistivity Tests for Equipment to be performed as appropriate and to be verified by Eskom's Clerk of Works, and must be according to Eskom Standard						
1.1		Perform Phasing Test	Each	R 115.42	R 0.00	R 0.00
1.2		Continuity Tests	Each	R 115.42	R 0.00	R 0.00
1.3		Earth Resistance Test	Each	R 115.42	R 0.00	R 0.00
1.4		A.C. Over-Voltage Test	Each	R 115.42	R 0.00	R 0.00
1.5		D.C. Insulation Test	Each	R 115.42	R 0.00	R 0.00

1.6		Outer Sheath Test (Serving Test)	Each	R 115.42	R 0.00	R 0.00
1.7		Compaction Test	Each	R 115.42	R 0.00	R 0.00
1.8		C.O.C Test for Certificate	No	R 302.40	R 0.00	R 0.00
1.9		Voltage Regulator commissioning test	No	R 115.42	R 0.00	R 0.00
1.10		Recloser commissioning test	No	R 115.42	R 0.00	R 0.00
SUB-TOTAL T						R 0.00
U		AS - BUILTS				
Allow for the following end items to be applied as per relevant Eskom Instructions/Bulletins/Procedures and Standards where not already allowed for in Structure Package						
1		As-built Drawings	Each	R 4,233.56	R 0.00	R 0.00
SUB-TOTAL U						R 0.00
V		MISCELLANEOUS				
Allow for the following end items to be applied as per relevant Eskom instructions/bulletins/procedures and standards where not already allowed for in structure package. Note the cross arms below are applicable for existing structures only.						
1.1	3175	Damper,vibrat spiral 8.29-11.71 D3175	Each	R 29.59	R 0.00	R 0.00
1.2	3175	Damper,vibrat spiral 11.72-14.30 D3175	Each	R 29.59	R 0.00	R 0.00
1.3	7028	Set: Device warning-Aircraft warning 8.87-13.55;2	SET	R 65.69	R 0.00	R 0.00
1.4	7028	Set: Device warning -Aircraft warning 7.35-14.16;2	SET	R 65.69	R 0.00	R 0.00
1.5	7028	Set: Device warning-Aircraft warning 18.13-23.88;2	SET	R 65.69	R 0.00	R 0.00
SUB-TOTAL V						R 0.00

PROJECT NAME:

START DATE:

CONTRACTOR:

END DATE:

CONTRACT #:

PO NUMBER:

BILL OF ACTIVITIES

ITEM	DESCRIPTION	UNIT	LABOUR QTY	LABOUR RATE	LABOUR TOTAL
W	TRANSPORT				
Unless otherwise specified, transport is to be used under specific instruction from the Project Manager only. This excludes staff transport. Staff transport is to be paid to transport workers from base location to site only. LDV/4x4 will only be paid for justifiable use and will be to the sole discretion of the Project Manager					
1.1	LDV 4x2	km		R 7.45	R 0.00
1.2	LDV/4x4	km		R 7.45	R 0.00
1.3	Personnel Transport for Staff	km		R 10.19	R 0.00
1.4	10 m ³ Tipper Truck	km		R 39.22	R 0.00
1.5	6 m ³ Tipper Truck	km		R 34.86	R 0.00
1.6	Transport Truck 2-4 ton	km		R 11.24	R 0.00
1.7	Transport Truck 5-8 ton	km		R 15.58	R 0.00
1.8	Transport Truck 5-8 ton with crane	km		R 22.05	R 0.00
1.9	Transport Truck 9-14 ton	km		R 28.66	R 0.00
1.10	Transport Truck 9-14 ton with crane	km		R 42.73	R 0.00
SUB-TOTAL W					R 0.00

PROJECT NAME:

START DATE:

CONTRACTOR:

END DATE:

CONTRACT #:

PO NUMBER:

ITEM: X	LABOUR		SCOPE		
	DESCRIPTION	UNIT	QTY	LABOUR RATE	LABOUR TOTAL
This schedule is used to assist with the valuation of Compensation Events					
1.1	Electrician (qualified trade test)-skilled	hour		R 144.64	R 0.00
1.2	Linesman (Proof of qualification required)-semi skilled	hour		R 84.28	R 0.00
1.3	Cable Jointer-skilled	hour		R 144.64	R 0.00
1.4	Storeman	hour		R 48.51	R 0.00
1.5	Semi-skilled Labour (Proof of qualification required)	hour		R 84.27	R 0.00
1.6	Unskilled Labour-no formal NQFqualification	hour		R 29.61	R 0.00
TOTAL - X					R 0.00

PROJECT NAME:

START DATE:

CONTRACTOR:

END DATE:

CONTRACT #:

PO NUMBER:

ITEM Y	INFILLS		SCOPE		
No	DESCRIPTION	UNIT	QTY	LABOUR RATE	LABOUR TOTAL
P&G's					
1.1	Provision of 10% Allowance for all P&G's Expenses (<i>Excluding Transport, Running Costs</i>)	lump sum	10%	R 0.00	R 0.00
SUB-TOTAL 1					R 0.00
DIRECT & INDIRECT CONNECTIONS	House Connections (Type 1 & 2). Accessories include House Labels, Pigtail Bolts, Strain clamps, Cable Saddles, Ready Board Mounting Hardware, Threaded Rods. Meters, Customer Interface Units, Ready Boards, Service Cable, Poles and Excavations are all inclusive. All Free Issue Material will be issued. Capturing and Handing over of Customer Data and updated PCS file is included.				
2.1	Type 1 connection can involve service cable and / or a meter. The main infrastructure must be on the boundary of the property applying for point of supply.	e.a.		R 1,175.51	R 0.00
2.3	Type 2 Only LV Infrastructure required connections can only involve extension of the main LV Overhead Line, Cable or Bundle Conductor in order to supply the Customer. (connecting this customer must not require the increase of a Transformer Capacity-Pole Mounted or Mini Sub). Service Cable and Meter included.	e.a.		R 2,056.80	R 0.00
SUB-TOTAL 2					R 0.00
TRANSPORT	Transport of resources to and from site will be done in terms of OHS Act (T). The cost to the Contractor to provide safe transport for his employees should be in terms of the Construction Regulations Clause 21 (2) (a) and (i) & adhere to Eskom Life Saving rules. Tracker records to be provided as proof of km's travelled.				
3.1	LDV 2X4	km		R 7.45	R 0.00
3.2	LDV 4X4	km		R 7.45	R 0.00
3.3	2-4 Ton Truck	km		R 11.24	R 0.00
3.4	8 Ton Truck	km		R 15.58	R 0.00
3.5	8 Ton Truck (with Crane)	km		R 22.05	R 0.00
					R 0.00
TOTAL - Y					R 0.00

PROJECT NAME:

START DATE:

CONTRACTOR:

END DATE:

CONTRACT #:

PO NUMBER:

ITEM: Z	Adhoc material	SCOPE			
	DESCRIPTION	%	Price before VAT	Cost +	Total
This schedule is used to assist with all the adhoc material that is purchased on the request of the PM/PC. A 5% handling fee will be compensated to the contractor for the					
1.1	Material bought	5%	R0.00	R 0.00	R 0.00
TOTAL - Z					R 0.00

VERIFIED BY: CLERK OF WORKS

DATE:

COST CHECK BY: QUANTITY SURVEYOR

DATE:

ACCEPTED BY: CONTRACTOR

DATE:

APPROVED BY: PROGRAM MANAGER

DATE: