

PROJECT NAME :
CONTRACTOR :
PO NUMBER:
CONTRACT NO.:

START:
END:

SUMMARY PAGE				
RETICULATION		PROJECT TOTALS		
BILL NO.	DESCRIPTION	SUPPLY	LABOUR	TOTAL
1	Preliminaries and General		R0.00	R0.00
2	Excavations	R0.00	R0.00	R0.00
3	MV Overhead System	R0.00	R0.00	R0.00
4	LV Overhead System	R0.00	R0.00	R0.00
5	MV Equipment and Switchgear	R0.00	R0.00	R0.00
6	House Service Connections	R0.00	R0.00	R0.00
7	LV cable	R0.00	R0.00	R0.00
8	MV cable	R0.00	R0.00	R0.00
9	Dismantle		R0.00	R0.00
10	Ad-Hoc Items	R0.00	R0.00	R0.00
11	HANDLING FEE 10%	R0.00		R0.00
	TOTAL	R0.00	R0.00	R0.00

PRELIMINARY AND GENERAL ITEMS				PROJECT TOTALS		
Bill No:1		DESCRIPTION	UNIT	QTY	RATE	TOTAL
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. <i>The Eskom Representative reserves the right to negotiate the rates for rental arrangements.</i>				
A.1.1.		Office and Meeting Room	Sum			R0.00
A.1.2.		Stores	Sum			R0.00
A.1.3.		Sanitation/Ablution facilities	Sum			R0.00
A.1.4.		Electricity (Eskom/Munic supply)	Sum			R0.00
A.1.5.		Electricity (Generator 6.5kVA)	Sum			R0.00
A.1.6.		Temporary water supply	Sum			R0.00
A.1.7.		The supply and complete installation of Diamond mesh fencing including fence posts at 1.8 meters high	m			R0.00
A.1.8.		The supply and complete installation of a Diamond mesh Lockable Gate including fence posts 1.8m high x 3.6m wide, including lock	each			R0.00
A.2.	Sign Board					
A.2.1		Construction Name Board - The Contractor shall supply, install and maintain one project signboard bearing the name of the project, the name and logo of Eskom, and the Contractor.	each			R0.00
A.3.	Sample Board and Stubby Line					
A.3.1		Construct a sample board and stubby line as per the drawings and specification stated in the latest revision of MVL-EI-048 published by Eskom Standards Implementation Department.	Sum			R0.00
A.4.	Health and Safety measures (In terms of 34-333)	Safety & Health, Environmental				
A.4.1		Compliance with OH&S Act & Construction Regulations, for other provisions not accounted for elsewhere	Sum			R0.00
A.5.	Materials Management					
A.5.1		The Contractor shall make allowance to receive at the site camp, offload and stack the free-issue materials supplied to the contractor.	Sum			R0.00
A.5.2		<i>Upon request by an Eskom representative, the contractor shall collect material from the specified Eskom RDC and transport to the site camp, to be off-loaded and stacked. OR return unused material to Eskom stores. Satellite/GPS map to be submitted for verification.</i>				
A.5.2.1.		LDV	km			R0.00
A.5.2.2.		4-ton truck	km			R0.00
A.5.2.3.		8-ton crane truck	km			R0.00
A.5.2.4.		22-ton crane truck	km			R0.00
	Sub-Total A					R0.00

B.	TIME RELATED ITEMS					
B.1	Site Establishment					
B.1.1.		Site office with aircon	Weeks			R0.00
		Site Storage 6m x 3m	Weeks			R0.00
B.1.2.		Water	Weeks			R0.00
B.1.3.		Sanitation (service)	Weeks			R0.00
B.1.4.		Electricity (Eskom/Munic supply)	Weeks			R0.00
B.1.5.		Electricity (Generator 6.5kVA)	p/day			R0.00
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			R0.00
B.3	Security					
B.3.1.		Security on site - 24 Hour Unarmed Security <i>(Must be PSIRA registered)</i>	Weeks			R0.00
B.4.	Labour	The Contractor need to submit Weekly Time Sheets for all hourly labour claims and a Daily attendance register for Community Liason Officer claims				
B.4.1.		Supervisor	hourly			R0.00
B.4.2.		Construction Manager <i>(SACPCMP registered)</i> , This item shall be claimable only upon submission of valid proof of the Construction Manager's provisional registration with the SACPCMP	hourly			R0.00
B.4.3.		Storeperson <i>(Storeperson is required to reconcile and quantify all material on site including Eskom supplied material using the correct material return to stores forms. The Storeperson shall adhere to the implementation and maintenance plan for Materials Management System for the duration of the contract).</i>	hourly			R0.00
B.4.4.		Community Liaison Officer	Days			R0.00
B.4.5.		Safety Officer <i>(SACPCMP registered)</i>	hourly			R0.00
A.5.	Transport	Eskom compliant transportation of staff from place of accommodation to site and back to accommodation	Days			R0.00
		<i>(Please note: transport for works as per the scope of work is included in the labour rate)</i>				
A.6.	Contractual requirements	Comply and maintain all insurance and statutory contributions, etc. Proof of insurance cover to be submitted for verification with each claim.	Month			
		Sub-Total B				R0.00
		TOTAL CARRIED TO SUMMARY PAGE				R0.00

BILL NO: 2	EXCAVATIONS, PLANTING & INSTALLATION OF STAYS & STRUTS				PROJECT TOTALS				
Note: a) All installations, assemblies and activities shall be as per Eskom DDT series, Eskom national or Eskom local technical instructions where applicable b) Eskom will advise what is free issue material and what is contractor supplied material									
NO.	D-D-T	DESCRIPTION	UNIT	QTY	SUPPLY RATE	LABOUR RATE	SUPPLY TOTAL	LABOUR TOTAL	TOTAL
EXCAVATIONS & TRENCHING		Manually excavate, backfill and compact as . Import backfill soil where required as per Eskom standard for holes and trenches for poles, stays, struts, flying stays and earth electrodes. All material will be measured elsewhere. Cable systems excavations and trenching will be measured elsewhere. Soil types are defined as Class1, class 2, class3 and class 4 as per Eskom standard 240-75883148.							
2.1	0332	Excavation, backfilling & compacting of a hole 1m for 5 meter pole in soil type compacted.							
2.1.1.		Class 1	Ea					R0.00	R0.00
2.1.2.		Class 2	Ea					R0.00	R0.00
2.1.3.		Class 3	Ea					R0.00	R0.00
2.1.4.		Class 4	Ea					R0.00	R0.00
2.2	0332	Excavation, backfilling and compacting of a hole 1,3 meter (7 meter pole) in soil type.							
2.2.1		Class 1	Ea					R0.00	R0.00
2.2.2		Class 2	Ea					R0.00	R0.00
2.2.3		Class 3	Ea					R0.00	R0.00
2.2.4		Class 4	Ea					R0.00	R0.00
2.3	0332	Excavation, backfilling and compacting of a hole, 1,5 meter (9 meter pole) in soil type.							
2.3.1		Class 1	Ea					R0.00	R0.00
2.3.2		Class 2	Ea					R0.00	R0.00
2.3.3		Class 3	Ea					R0.00	R0.00
2.3.4		Class 4	Ea					R0.00	R0.00
2.4	0332	Excavation, backfilling and compacting of a hole 1,7 meters (10 meter pole) in soil type.							
2.4.1		Class 1	Ea					R0.00	R0.00
A.5.2.1.		Class 2	Ea					R0.00	R0.00
A.5.2.2.		Class 3	Ea					R0.00	R0.00
A.5.2.3.		Class 4	Ea					R0.00	R0.00
A.5.2.4.	0332	Excavation, backfilling and compacting of a hole 1,8 meters (11 meter pole) in soil type.							
2.5.1		Class 1	Ea					R0.00	R0.00
2.5.2		Class 2	Ea					R0.00	R0.00
2.5.3		Class 3	Ea					R0.00	R0.00
2.5.4		Class 4	Ea					R0.00	R0.00
2.6	0332	Excavation, backfilling and compacting of a hole 2,0 meters (12 meter pole) in soil type.							
2.6.1		Class 1	Ea					R0.00	R0.00
2.6.2		Class 2	Ea					R0.00	R0.00
2.6.3		Class 3	Ea					R0.00	R0.00
2.6.4		Class 4	Ea					R0.00	R0.00
2.7	0332	Excavation, backfilling and compacting of a hole 2.2 meter (13 meter pole) in soil type.							
2.7.1		Class 1	Ea					R0.00	R0.00
2.7.2		Class 2	Ea					R0.00	R0.00
2.7.3		Class 3	Ea					R0.00	R0.00
2.7.4		Class 4	Ea					R0.00	R0.00
2.8	0332	Excavation, backfilling and compacting of a hole 2.2m (14 meter pole) in soil type.							
2.8.1		Class 1	Ea					R0.00	R0.00
2.8.2		Class 2	Ea					R0.00	R0.00
2.8.3		Class 3	Ea					R0.00	R0.00
2.8.4		Class 4	Ea					R0.00	R0.00
2.9	0332	Excavation, backfilling and compacting of a hole 2.2m (15 meter pole) in soil type.							
2.9.1		Class 1	Ea					R0.00	R0.00
2.9.2		Class 2	Ea					R0.00	R0.00
2.9.3		Class 3	Ea						

2.12	0350	Excavation, backfilling and compacting of a non-augured LV stay hole 1,3 meters (rod diameter 12mm) in soil type.							
2.12.1		Class 1	Ea					R0.00	R0.00
2.12.2		Class 2	Ea					R0.00	R0.00
2.12.3		Class 3	Ea					R0.00	R0.00
2.12.4		Class 4	Ea					R0.00	R0.00
2.13	0350	Excavation, backfilling and compacting of a non-augured MV stay hole 1,75 meters (rod diameters 20mm) in soil type							
2.13.1		Class 1	Ea					R0.00	R0.00
2.13.2		Class 2	Ea					R0.00	R0.00
2.13.3		Class 3	Ea					R0.00	R0.00
2.13.4		Class 4	Ea					R0.00	R0.00
2.14	0350	Excavation, backfilling and compacting of a non-augured MV stay hole 2,15 meters (rod diameters 24mm) in soil type							
2.14.1		Class 1	Ea					R0.00	R0.00
2.14.2		Class 2	Ea					R0.00	R0.00
2.14.3		Class 3	Ea					R0.00	R0.00
2.14.4		Class 4	Ea					R0.00	R0.00
2.15	0342	Excavation, backfilling & compacting of a MV 0.5m deep strut hole in soil type							
2.15.1		Class 1	Ea					R0.00	R0.00
2.15.2		Class 2	Ea					R0.00	R0.00
2.15.3		Class 3	Ea					R0.00	R0.00
2.15.4		Class 4	Ea					R0.00	R0.00
2.16	0342	Excavation, backfilling & compacting of a LV strut hole 0.5 deep meters in soil type							
2.16.1		Class 1	Ea					R0.00	R0.00
2.16.2		Class 2	Ea					R0.00	R0.00
2.16.3		Class 3	Ea					R0.00	R0.00
2.16.4		Class 4	Ea					R0.00	R0.00
2.17		Excavation, backfilling & compacting of wood poles, stay holes and cable trenches using Mechanical boring/Rock Drill, Jack Hammer or Blasting. The handling fee will only be applicable to the supplier's invoice where the service is outsourced. Where the machinery is owned by the contractor a quotation with no handling fee is to be submitted. PC/QS to do due diligence in verifying quotations.							
2.17.1		Rock drilling (Irrespective of depth of hole, each hole to be verified by Eskom's Clerk of Works as per Supplier's invoice+10% handling) Inclusive of equipment and labour	Ea					R0.00	R0.00
2.17.2		Rock drilling for cable trench to be verified by Eskom's Clerk of Works as per Supplier's invoice+10% handling) Inclusive of equipment and labour	m					R0.00	R0.00
2.17.3		Excavate using a mechanical boring (Auger) device (irrespective of depth of hole, each hole to be verified by Eskom's Clerk of Works as per Supplier's invoice+10% handling) Inclusive of equipment and labour	Ea					R0.00	R0.00
2.17.4		Excavate using a jack hammer and compressor (Irrespective of depth of hole, each hole to be verified by Eskom's Clerk of Works as per Supplier's invoice+10% handling) Inclusive of equipment and labour	Ea					R0.00	R0.00
2.17.5		Excavate using a jack hammer and compressor for cable trench, to be verified by Eskom's Clerk of Works as per Supplier's invoice+10% handling. Inclusive of equipment and labour	m					R0.00	R0.00
2.17.6		Blasting (Irrespective of depth of hole, each hard rock hole to be verified by Eskom's Clerk of Works as per Supplier's invoice+10% handling) Inclusive of equipment and labour	Ea					R0.00	R0.00
2.17.7		Blasting for cable trenches hard rock hole to be verified by Eskom's Clerk of Works as per Supplier's invoice+10% handling) Inclusive of equipment and labour	m					R0.00	R0.00
2.17.8		Clean out and make suitable the excavation after blasting	Ea					R0.00	R0.00
2.17.9		Supply of imported soil (Class 2) - To be verified by Clerk of Works (Subject to supplier's invoice +10% handling)	m³					R0.00	R0.00
2.17.10		Pumping water from excavation (subject to supplier's invoice +10% handling) Inclusive of equipment and labour	litre					R0.00	R0.00
2.17.11		Application of tar according to municipal standard - Supplier's Invoice + 5% Inclusive of equipment and labour	m²					R0.00	R0.00
2.17.12		Directional drilling method including access holes (digging of pits), shoring, and sleeves. Supplier's Invoice + 5% Inclusive of equipment and labour.	Ea					R0.00	R0.00
2.17.13		Pipe jacking method including access holes (digging of pits), shoring, and sleeves. Supplier's Invoice + 5% Inclusive of equipment and labour.	m					R0.00	R0.00
2.17.14		Digging of pits (per crossings) Supplier's Invoice + 5% Inclusive of equipment and labour	Ea					R0.00	R0.00
2.18	0642	MV and LV Earth electrode trench 0.5m deep, 0.5m wide, including excavation, backfilling and compaction							
2.18.1		Class 1	m					R0.00	R0.00
2.18.2		Class 2	m					R0.00	R0.00
2.18.3		Class 3	m					R0.00	R0.00
2.18.4		Class 4	m					R0.00	R0.00

2.19	0210	SWER MV and LV Earth electrode trench 1m deep, 0.5m wide, including excavation, backfilling and compaction							
2.19.1		Class 1	m					R0.00	R0.00
2.19.2		Class 2	m					R0.00	R0.00
2.19.3		Class 3	m					R0.00	R0.00
2.19.4		Class 4	m					R0.00	R0.00
WOOD POLE PLANTING		Excavations, backfilling and compaction are measured elsewhere. Structure, Flying stay and strut poles are included in this section. Poles are Eskom free issue material. Pole top diameter ranges from 140mm to 220mm. Assumed a 100m distance to carry pole.							
2.20		Planting By hand							
2.20.1	0058	POLE,WOOD 5.0 X 80-100 TOP DIA	Ea					R0.00	R0.00
2.20.2	0050	POLE,WOOD 7.0X100-120 TOP DIA	Ea					R0.00	R0.00
2.20.3	0050	POLE,WOOD 7.0X120-139 TOP DIA	Ea					R0.00	R0.00
2.20.4	0055	POLE:140-159MM TOP DIA X LG 9 M;WOOD	Ea					R0.00	R0.00
2.20.5	0055	POLE:160-179MM TOP DIA X LG 9 M;WOOD	Ea					R0.00	R0.00
2.20.6	0055	POLE:180-199MM TOP DIA X LG 9 M;WOOD	Ea					R0.00	R0.00
2.20.7	0052	POLE,WOOD 10.0m x 160-179	Ea					R0.00	R0.00
2.20.8	0052	POLE,WOOD 10.0m x 180-199	Ea					R0.00	R0.00
2.20.9	0052	POLE,WOOD 10.0m x 200-219	Ea					R0.00	R0.00
2.20.10	0051	POLE:140-159MM TOP DIA X LG 11M ;WOOD	Ea					R0.00	R0.00
2.20.11	0051	POLE:160-179MM TOP DIA X LG 11M ;WOOD	Ea					R0.00	R0.00
2.20.12	0051	POLE:180-199MM TOP DIA X LG 11M ;WOOD	Ea					R0.00	R0.00
2.20.13	0051	POLE:200-219MM TOP DIA X LG 11M ;WOOD	Ea					R0.00	R0.00
2.20.14	0053	POLE:160-179MM TOP DIA LG 12 M;WOOD	Ea					R0.00	R0.00
2.20.15	0053	POLE:180-199MM TOP DIA X LG 12 M;WOOD	Ea					R0.00	R0.00
2.20.16	0053	POLE:200-219MM TOP DIA X LG 12 M;WOOD	Ea					R0.00	R0.00
2.20.17	0056	POLE,WOOD 13.0 x 160-179	Ea					R0.00	R0.00
2.20.18	0056	POLE,WOOD 13.0 x 180-199	Ea					R0.00	R0.00
2.20.19	0056	POLE,WOOD 13.0 x 200-219	Ea					R0.00	R0.00
2.20.20	0054	POLE,WOOD 14.0 x 160-179	Ea					R0.00	R0.00
2.20.21	0054	POLE,WOOD 14.0 x 180-199	Ea					R0.00	R0.00
2.20.22	0054	POLE,WOOD 14.0 x 200-219	Ea					R0.00	R0.00
2.20.23	0057	POLE,WOOD 15.0 x 200-219	Ea					R0.00	R0.00
2.20.24	0049	POLE,WOOD 16.0 x 180-199	Ea					R0.00	R0.00
2.20.25	0049	POLE,WOOD 16.0 x 200-219	Ea					R0.00	R0.00
2.20.26	0048	POLE,WOOD 18.0 x 180-199	Ea					R0.00	R0.00
2.20.27	0048	POLE,WOOD 18.0 x 200-219	Ea					R0.00	R0.00
2.21		Planting by Crane							
2.21.1	0055	POLE,WOOD 9.0m x 140-159	Ea					R0.00	R0.00
2.21.2	0055	POLE,WOOD 9.0m x 160-179	Ea					R0.00	R0.00
2.21.3	0055	POLE,WOOD 9.0m x 180-199	Ea					R0.00	R0.00
2.21.4	0052	POLE,WOOD 10.0m x 160-179	Ea					R0.00	R0.00
2.21.5	0052	POLE,WOOD 10.0m x 180-199	Ea					R0.00	R0.00
2.21.6	0052	POLE,WOOD 10.0m x 200-219	Ea					R0.00	R0.00
2.21.7	0051	POLE:140-159MM TOP DIA X LG 11M ;WOOD	Ea					R0.00	R0.00
2.21.8	0051	POLE:160-179MM TOP DIA X LG 11M ;WOOD	Ea					R0.00	R0.00
2.21.9	0051	POLE:180-199MM TOP DIA X LG 11M ;WOOD	Ea					R0.00	R0.00
2.21.10	0051	POLE:200-219MM TOP DIA X LG 11M ;WOOD	Ea					R0.00	R0.00
2.21.11	0053	POLE:160-179MM TOP DIA LG 12 M;WOOD	Ea					R0.00	R0.00
2.21.12	0053	POLE:180-199MM TOP DIA X LG 12 M;WOOD	Ea					R0.00	R0.00
2.21.13	0053	POLE:200-219MM TOP DIA X LG 12 M;WOOD	Ea					R0.00	R0.00
2.21.14	0056	POLE,WOOD 13.0 x 160-179	Ea					R0.00	R0.00
2.21.15	0056	POLE,WOOD 13.0 x 180-199	Ea					R0.00	R0.00
2.21.16	0056	POLE,WOOD 13.0 x 200-219	Ea					R0.00	R0.00
2.21.17	0054	POLE,WOOD 14.0 x 160-179	Ea					R0.00	R0.00
2.21.18	0054	POLE,WOOD 14.0 x 180-199	Ea					R0.00	R0.00
2.21.19	0054	POLE,WOOD 14.0 x 200-219	Ea					R0.00	R0.00
2.21.20	0057	POLE,WOOD 15.0 x 200-219	Ea					R0.00	R0.00
2.21.21	0049	POLE,WOOD 16.0 x 180-199	Ea					R0.00	R0.00
2.21.22	0049	POLE,WOOD 16.0 x 200-219	Ea					R0.00	R0.00
2.21.23	0048	POLE,WOOD 18.0 x 180-199	Ea					R0.00	R0.00
2.21.24	0048	POLE,WOOD 18.0 x 200-219	Ea					R0.00	R0.00

STAYS AND STRUTS		Install stays, flying stays, struts. 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							
2.22		Installing Stay and strut assemblies							
2.22.1	0341 (Sh 1 of 5)	STAY ASSEMBLY (LV - 35kN) WOOD POLES	Ea				R0.00	R0.00	R0.00
2.22.2	0341 (Sh 2 of 5)	STAY ASSEMBLY (MV - 97kN) WOOD POLES	Ea				R0.00	R0.00	R0.00
2.22.3	0341 (Sh 4 of 5)	MV HEAVY / HV LINES CONDUCTOR STAY ASSEMBLY (MV - 115kN) WOOD POLES	Ea				R0.00	R0.00	R0.00
2.22.4	0341 (Sh 5 of 5)	STAY GUARD APPLICATION (IF REQUIRED)	Ea				R0.00	R0.00	R0.00
2.22.5	0342 (Sh 1 of 3)	STRUT ASSEMBLY FLAT 45 DEG. BRACKET 7m AND 9m POLES	Ea				R0.00	R0.00	R0.00
2.22.6	0342 (Sh 2 of 3)	STRUT ASSEMBLY SWIVEL BRACKET 11m, 12m AND 13m WOOD POLES	Ea				R0.00	R0.00	R0.00
2.22.7	0342 (Sh 3 of 3)	STRUT ASSEMBLY WOOD H - POLE FOR -11m , 12m and 13m poles	Ea				R0.00	R0.00	R0.00
2.22.8	0343	LV/MV - OVERHEAD FLYING STAY ARRANGEMENT	Ea				R0.00	R0.00	R0.00
2.22.9	0344	HIP STAY FROM WOOD POLE FOUNDATION AND ASSEMBLY	Ea				R0.00	R0.00	R0.00
2.22.10	0357 (Sh 1 of 3)	LV/MV-ROCK ANCHOR INSTALLATION (EXPANDABLE SHELL & RESIN TYPE)	Ea				R0.00	R0.00	R0.00
2.22.11	0357 (Sh 2 of 3)	LV/MV-ROCK ANCHOR INSTALLATION (2 EYED ROD AND PIN TYPE)	Ea				R0.00	R0.00	R0.00
2.22.12	0357 (Sh 3 of 3)	MV- SOFT ROCK ANCHOR INSTALLATION	Ea				R0.00	R0.00	R0.00
		TOTAL CARRIED TO SUMMARY PAGE					R0.00	R0.00	R0.00

BILL NO: 3		MV OVERHEAD SYSTEM			PROJECT TOTALS				
Note: a)All installations, assemblies and activities shall be as per Eskom DDT series, Eskom national or Eskom local technical instructions where applicable b) Eskom will advise what is free issue material and what is contractor supplied material									
NO.	D-D-T	DESCRIPTION	UNIT	QTY					
MV CONDUCTOR	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.								
3.1									
3.1.1	3136	MV Bare ACSR Fox Ungreased	m					R0.00	R0.00
3.1.2	3136	MV Bare ACSR Fox Greased	m					R0.00	R0.00
3.1.3	3136	MV Bare AAAC 35mmsq Greased	m					R0.00	R0.00
3.1.4	3136	MV Bare AAAC Pine Greased	m					R0.00	R0.00
3.1.5	3136	MV Bare ACSR Mink Greased	m					R0.00	R0.00
3.1.6	3136	MV Bare ACSR Mink Ungreased	m					R0.00	R0.00
3.1.7	3136	MV Bare AAAC Oak Greased	m					R0.00	R0.00
3.1.8	3136	MV Bare ACSR Hare Greased	m					R0.00	R0.00
3.1.9	3136	MV Bare ACSR Hare Ungreased	m					R0.00	R0.00
3.1.10	3136	MV Bare Chicadee conductor- Greased	m					R0.00	R0.00
3.1.11	3136	MV Bare Chicadee conductor- Ungreased	m					R0.00	R0.00
3.1.12	3136	MV ABC 11 kV 35 mmsq 3 Core	m					R0.00	R0.00
3.1.13	3136	MV ABC 11 kV 95 mmsq 3 Core	m					R0.00	R0.00
3.1.14	3136	MV ABC 22 kV 35 mmsq 3 Core	m					R0.00	R0.00
3.1.15	3136	MV ABC 22 kV 95 mmsq 3 Core	m					R0.00	R0.00
MV CONDUCTOR	Erect MV support structures. Auxiliary equipment such as bonding, BIL downwire, 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 Eskom document KZN15ZEG-044. 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.								
3.2									
3.2.1	0400	SWER – Intermediate - 0° Deviation	Ea				R0.00	R0.00	R0.00
3.2.2	0400	SWER – Intermediate - 0° Deviation Rx	Ea				R0.00	R0.00	R0.00
3.2.3	0401	SWER – Intermediate Small (1-10°) Deviation	Ea				R0.00	R0.00	R0.00
3.2.4	0401	SWER – Intermediate Small (1-10°) Deviation Rx	Ea				R0.00	R0.00	R0.00
3.2.5	0402	SWER - Suspension Medium (10-30°) Deviation	Ea				R0.00	R0.00	R0.00
3.2.6	0402	SWER - Suspension Medium (10-30°) Deviation Rx	Ea				R0.00	R0.00	R0.00
3.2.7	0403	SWER - Strain 0° Deviation	Ea				R0.00	R0.00	R0.00
3.2.8	0403	SWER - Strain 0° Deviation Rx	Ea				R0.00	R0.00	R0.00
3.2.9	0404	SWER – Strain Small (1-30°) Deviation	Ea				R0.00	R0.00	R0.00
3.2.10	0404	SWER – Strain Small (1-30°) Deviation Rx	Ea				R0.00	R0.00	R0.00
3.2.11	0406	SWER – Strain Large (30-90°) Deviation	Ea				R0.00	R0.00	R0.00
3.2.12	0406	SWER – Strain Large (30-90°) Deviation Rx	Ea				R0.00	R0.00	R0.00
3.2.13	0407	SWER – Strain Terminal	Ea				R0.00	R0.00	R0.00
3.2.14	0407	SWER – Strain Terminal Rx	Ea				R0.00	R0.00	R0.00
3.2.15	0410	SWER – Intermediate With Earth Wire - 0° Deviation	Ea				R0.00	R0.00	R0.00
3.2.16	0410	SWER – Intermediate With Earth Wire- 0° Deviation Rx	Ea				R0.00	R0.00	R0.00
3.2.17	0411	SWER – Intermediate With Earth Wire Small (1-10°) Deviation	Ea				R0.00	R0.00	R0.00
3.2.18	0411	SWER – Intermediate With Earth Wire Small (1-10°) Deviation Rx	Ea				R0.00	R0.00	R0.00
3.2.19	0413	SWER - Suspension With Earth Wire Medium (10-30°) Deviation	Ea				R0.00	R0.00	R0.00
3.2.20	0413	SWER - Suspension With Earth Wire Medium (10-30°) Deviation Rx	Ea				R0.00	R0.00	R0.00
3.2.21	0414	SWER - Strain With Earth Wire 0° Deviation	Ea				R0.00	R0.00	R0.00
3.2.22	0414	SWER - Strain With Earth Wire 0° Deviation Rx	Ea				R0.00	R0.00	R0.00
3.2.23	0416	SWER – Strain With Earth Wire Small (1-30°) Deviation	Ea				R0.00	R0.00	R0.00
3.2.24	0416	SWER – Strain With Earth Wire Small (1-30°) Deviation Rx	Ea				R0.00	R0.00	R0.00
3.2.25	0417	SWER – Strain With Earth Wire Large (30-90°) Deviation	Ea				R0.00	R0.00	R0.00
3.2.26	0417	SWER – Strain With Earth Wire Large (30-90°) Deviation Rx	Ea				R0.00	R0.00	R0.00
3.2.27	0418	SWER – Strain With Earth Wire Terminal	Ea				R0.00	R0.00	R0.00
3.2.28	0418	SWER – Strain With Earth Wire Terminal Rx	Ea				R0.00	R0.00	R0.00
3.2.29	1310	Phase / phase – Staggered Vertical (600mm spacing) – Intermediate - 0° Deviation	Ea				R0.00	R0.00	R0.00
3.2.30	1310	Phase / phase – Staggered Vertical (600mm spacing) – Intermediate - 0° Deviation With Spark Gap Device	Ea				R0.00	R0.00	R0.00
3.2.31	1310	Phase / phase – Staggered Vertical (600mm spacing) – Intermediate - 0° Deviation Rx	Ea				R0.00	R0.00	R0.00
3.2.32	1310	Phase / phase – Staggered Vertical (600mm spacing) – Intermediate - 0° Deviation Rx With Spark Gap Device	Ea				R0.00	R0.00	R0.00
3.2.33	1311	Phase / phase – Vertical (600mm spacing) – Intermediate - Small-(1-±10°) Deviation	Ea				R0.00	R0.00	R0.00
3.2.34	1311	Phase / phase – Vertical (600mm spacing) – Intermediate - Small-(1-±10°) Deviation Rx	Ea				R0.00	R0.00	R0.00
3.2.35	1312	Phase / phase – Vertical (600mm spacing) – Intermediate - Medium (10-30°) Deviation	Ea				R0.00	R0.00	R0.00
3.2.36	1312	Phase / phase – Vertical (600mm spacing) – Intermediate - Medium (10-30°) Deviation Rx	Ea				R0.00	R0.00	R0.00
3.2.37	1313	Phase / phase – Vertical (600mm spacing) – Strain -0° Deviation	Ea				R0.00	R0.00	R0.00
3.2.38	1313	Phase / phase – Vertical (600mm spacing) – Strain -0° Deviation Rx	Ea				R0.00	R0.00	R0.00
3.2.39	1314	Phase / phase – Vertical (600mm spacing) – Strain-Small (1-30°) Deviation	Ea				R0.00	R0.00	R0.00
3.2.40	1314	Phase / phase – Vertical (600mm spacing) – Strain-Small (1-30°) Deviation Rx	Ea				R0.00	R0.00	R0.00

3.2.41	1315	Phase / phase – Vertical (600mm spacing) – Strain - Large (30-90°) Deviation	Ea				R0.00	R0.00	R0.00
3.2.42	1315	Phase / phase – Vertical (600mm spacing) – Strain - Large (30-90°) Deviation Rx	Ea				R0.00	R0.00	R0.00
3.2.43	1316	Phase / phase – Vertical (600mm spacing) – Strain - Terminal	Ea				R0.00	R0.00	R0.00
3.2.44	1316	Phase / phase – Vertical (600mm spacing) – Strain - Terminal Rx	Ea				R0.00	R0.00	R0.00
3.2.45	1340B	Phase / phase – Delta/2.5M Wooden X-arm – Strain - 0° Deviation	Ea				R0.00	R0.00	R0.00
3.2.46	1340B	Phase / phase – Delta/2.5M Wooden X-arm – Strain - 0° Deviation Rx	Ea				R0.00	R0.00	R0.00
3.2.47	1340B	Phase / phase – Delta/2.5M Wooden X-arm – Strain - 0° Deviation With Spark Gap Device	Ea				R0.00	R0.00	R0.00
3.2.48	1340B	Phase / phase – Delta/2.5M Wooden X-arm – Strain - 0° Deviation With Spark Gap Device-Rx	Ea				R0.00	R0.00	R0.00
3.2.49	1343	Phase / phase – Delta/2.5M Wooden X-arm – Strain - 0° Deviation	Ea				R0.00	R0.00	R0.00
3.2.50	1343	Phase / phase – Delta/2.5M Wooden X-arm – Strain - 0° Deviation - Rx	Ea				R0.00	R0.00	R0.00
3.2.51	1344	Phase / phase – Delta/2.5M Wooden X-arm – Strain - Medium (1-60°) Deviation	Ea				R0.00	R0.00	R0.00
3.2.52	1344	Phase / phase – Delta/2.5M Wooden X-arm – Strain - Medium (1-60°) Deviation -Rx	Ea				R0.00	R0.00	R0.00
3.2.53	1346	Phase / phase – Delta/2.5M Wooden X-arm – Strain - Terminal	Ea				R0.00	R0.00	R0.00
3.2.54	1346	Phase / phase – Delta/2.5M Wooden X-arm – Strain - Terminal -RX	Ea				R0.00	R0.00	R0.00
3.2.55	1370	Phase / phase - H-Pole / 4,5m Wood X-arm – Intermediate - 0° Deviation	Ea				R0.00	R0.00	R0.00
3.2.56	1370	Phase / phase - H-Pole / 4,5m Wood X-arm – Intermediate - 0° Deviation - RX	Ea				R0.00	R0.00	R0.00
3.2.57	1370	Phase / phase - H-Pole / 4,5m Wood X-arm – Intermediate - 0° Deviation - With Spark Gap device	Ea				R0.00	R0.00	R0.00
3.2.58	1370	Phase / phase - H-Pole / 4,5m Wood X-arm – Intermediate - 0° Deviation - With Spark Gap device-RX	Ea				R0.00	R0.00	R0.00
3.2.59	1371	Phase / phase – H-Pole / 4.5m Wood x-arm – Intermediate – Small (1 –10°) deviation	Ea				R0.00	R0.00	R0.00
3.2.60	1371	Phase / phase – H-Pole / 4.5m Wood x-arm – Intermediate – Small (1 –10°) deviation-RX	Ea				R0.00	R0.00	R0.00
3.2.61	1373	Phase / phase - H-Pole / 4,5m Wood X-arm – Strain – 0° Deviation	Ea				R0.00	R0.00	R0.00
3.2.62	1373	Phase / phase - H-Pole / 4,5m Wood X-arm – Strain – 0° Deviation -RX	Ea				R0.00	R0.00	R0.00
3.2.63	1374	Phase / phase - H-Pole / 4,5m Wood X-arm – Strain - Medium(1°- 60°) Deviation	Ea				R0.00	R0.00	R0.00
3.2.64	1374	Phase / phase - H-Pole / 4,5m Wood X-arm – Strain - Medium(1°- 60°) Deviation -RX	Ea				R0.00	R0.00	R0.00
3.2.65	1376	Phase / phase - H-Pole / 4,5m Wood X-arm – Strain – Terminal	Ea				R0.00	R0.00	R0.00
3.2.66	1376	Phase / phase - H-Pole / 4,5m Wood X-arm – Strain – Terminal -RX	Ea				R0.00	R0.00	R0.00
3.2.67	1710	3 Phase - Staggered Vertical (600mm Spacing) Intermediate 0° Deviation	Ea				R0.00	R0.00	R0.00
3.2.68	1710	3 Phase - Staggered Vertical (600mm Spacing) Intermediate 0° Deviation With Spark Gap Device	Ea				R0.00	R0.00	R0.00
3.2.69	1710	3 Phase - Staggered Vertical (600mm Spacing) Intermediate 0° Deviation Rx	Ea				R0.00	R0.00	R0.00
3.2.70	1710	3 Phase - Staggered Vertical (600mm Spacing) Intermediate 0° Deviation Rx With Spark Gap Device	Ea				R0.00	R0.00	R0.00
3.2.71	1710# (y)	3 Phase - Staggered Vertical (800mm Spacing) Intermediate 0° Deviation	Ea				R0.00	R0.00	R0.00
3.2.72	1710# (y)	3 Phase - Staggered Vertical (800mm Spacing) Intermediate 0° Deviation With Spark Gap Device	Ea				R0.00	R0.00	R0.00
3.2.73	1710# (y)	3 Phase - Staggered Vertical (800mm Spacing) Intermediate 0° Deviation Rx	Ea				R0.00	R0.00	R0.00
3.2.74	1710# (y)	3 Phase - Staggered Vertical (800mm Spacing) Intermediate 0° Deviation Rx With Spark Gap Device	Ea				R0.00	R0.00	R0.00
3.2.75	1711	3 Phase - Vertical (600mm Spacing) Intermediate-Small (1- ±10°) Deviation	Ea				R0.00	R0.00	R0.00
3.2.76	1711	3 Phase - Vertical (600mm Spacing) Intermediate-Small (1- ±10°) Deviation Rx	Ea				R0.00	R0.00	R0.00
3.2.77	1711A	3 Phase - Vertical (800mm Spacing) Intermediate-Small (1- ±5°) Deviation	Ea				R0.00	R0.00	R0.00
3.2.78	1711A	3 Phase - Vertical (800mm Spacing) Intermediate-Small (1- ±5°) Deviation Rx	Ea				R0.00	R0.00	R0.00
3.2.79	1712	3 Phase - Vertical (600mm Spacing) Intermediate-Medium (±15-30°) Deviation	Ea				R0.00	R0.00	R0.00
3.2.80	1712	3 Phase - Vertical (600mm Spacing) Intermediate-Medium (±15-30°) Deviation Rx	Ea				R0.00	R0.00	R0.00
3.2.81	1713	3 Phase - Vertical (600mm Spacing) Strain 0° Deviation	Ea				R0.00	R0.00	R0.00
3.2.82	1713	3 Phase - Vertical (600mm Spacing) Strain 0° Deviation Rx	Ea				R0.00	R0.00	R0.00
3.2.83	1713A	3 Phase - Vertical (800mm Spacing) Strain 0° Deviation	Ea				R0.00	R0.00	R0.00
3.2.84	1713A	3 Phase - Vertical (800mm Spacing) Strain 0° Deviation Rx	Ea				R0.00	R0.00	R0.00
3.2.85	1714	3 Phase - Vertical (600mm Spacing) Strain - Small(1-30°) Deviation	Ea				R0.00	R0.00	R0.00
3.2.86	1714	3 Phase - Vertical (600mm Spacing) Strain - Small(1-30°) Deviation Rx	Ea				R0.00	R0.00	R0.00
3.2.87	1714A	3 Phase - Vertical (800mm Spacing) Strain - Small(1-10°) Deviation	Ea				R0.00	R0.00	R0.00
3.2.88	1714A	3 Phase - Vertical (800mm Spacing) Strain - Small(1-10°) Deviation Rx	Ea				R0.00	R0.00	R0.00
3.2.89	1714B	3 Phase - Vertical (800mm Spacing) Strain - Medium (11-30°) Deviation	Ea				R0.00	R0.00	R0.00
3.2.90	1714B	3 Phase - Vertical (800mm Spacing) Strain - Medium (11-30°) Deviation Rx	Ea				R0.00	R0.00	R0.00
3.2.91	1714C	3 Phase - Vertical (800mm Spacing) Strain - Large (31-60°) Deviation	Ea				R0.00	R0.00	R0.00
3.2.92	1714C	3 Phase - Vertical (800mm Spacing) Strain - Large (31-60°) Deviation Rx	Ea				R0.00	R0.00	R0.00
3.2.93	1714D	3 Phase - Vertical (800mm Spacing) Strain - Large (61-90°) Deviation	Ea				R0.00	R0.00	R0.00
3.2.94	1714D	3 Phase - Vertical (800mm Spacing) Strain - Large (61-90°) Deviation Rx	Ea				R0.00	R0.00	R0.00
3.2.95	1715	3 Phase - Vertical (600mm Spacing) Strain - Large(30-90°) Deviation Rx	Ea				R0.00	R0.00	R0.00

3.2.96	1715	3 Phase - Vertical (600mm Spacing) Strain - Large(30-90°) Deviation Rx	Ea				R0.00	R0.00	R0.00
3.2.97	1716	3 Phase - Vertical (600mm Spacing) Strain - Terminal	Ea				R0.00	R0.00	R0.00
3.2.98	1716	3 Phase - Vertical (600mm Spacing) Strain - Terminal Rx	Ea				R0.00	R0.00	R0.00
3.2.99	1716A	3 Phase - Vertical (800mm Spacing) Strain - Terminal	Ea				R0.00	R0.00	R0.00
3.2.100	1716A	3 Phase - Vertical (800mm Spacing) Strain - Terminal Rx	Ea				R0.00	R0.00	R0.00
3.2.101	1740B	3 Phase - Delta / 2,5m Wood X-arm – Intermediate - 0° Deviation	Ea				R0.00	R0.00	R0.00
3.2.102	1740B	3 Phase - Delta / 2,5m Wood X-arm – Intermediate - 0° Deviation -RX	Ea				R0.00	R0.00	R0.00
3.2.103	1740B	3 Phase - Delta / 2,5m Wood X-arm – Intermediate - 0° Deviation -With Spark Gap Device	Ea				R0.00	R0.00	R0.00
3.2.104	1740B	3 Phase - Delta / 2,5m Wood X-arm – Intermediate - 0° Deviation -With Spark Gap Device-RX	Ea				R0.00	R0.00	R0.00
3.2.105	1740# (y)	3 Phase - Delta / 2,5m Wood X-arm – Intermediate - 0° Deviation	Ea				R0.00	R0.00	R0.00
3.2.106	1740# (y)	3 Phase - Delta / 2,5m Wood X-arm – Intermediate - 0° Deviation -RX	Ea				R0.00	R0.00	R0.00
3.2.107	1740# (y)	3 Phase - Delta / 2,5m Wood X-arm – Intermediate - 0° Deviation -With Spark Gap Device	Ea				R0.00	R0.00	R0.00
3.2.108	1740# (y)	3 Phase - Delta / 2,5m Wood X-arm – Intermediate - 0° Deviation -With Spark Gap Device-RX	Ea				R0.00	R0.00	R0.00
3.2.109	1743	3 Phase - Delta / 2,5m Wood X-arm - Strain – 0° Deviation	Ea				R0.00	R0.00	R0.00
3.2.110	1743	3 Phase - Delta / 2,5m Wood X-arm - Strain – 0° Deviation -RX	Ea				R0.00	R0.00	R0.00
3.2.111	1743A	3 Phase - Delta / 2,5m Wood X-arm - Strain – 0° Deviation	Ea				R0.00	R0.00	R0.00
3.2.112	1743A	3 Phase - Delta / 2,5m Wood X-arm - Strain – 0° Deviation -RX	Ea				R0.00	R0.00	R0.00
3.2.113	1744	3 Phase - Delta / 2,5m Wood X-arm - Strain – Medium(1°-60°) Deviation	Ea				R0.00	R0.00	R0.00
3.2.114	1744	3 Phase - Delta / 2,5m Wood X-arm - Strain – Medium(1°-60°) Deviation -RX	Ea				R0.00	R0.00	R0.00
3.2.115	1744A	3 Phase - Delta / 2,5m Wood X-arm - Strain – Small (1°-10°) Deviation	Ea				R0.00	R0.00	R0.00
3.2.116	1744A	3 Phase - Delta / 2,5m Wood X-arm - Strain – Small (1°-10°) Deviation - Rx	Ea				R0.00	R0.00	R0.00
3.2.117	1744B	3 Phase - Delta / 2,5m Wood X-arm - Strain – Medium (11°-30°) Deviation	Ea				R0.00	R0.00	R0.00
3.2.118	1744B	3 Phase - Delta / 2,5m Wood X-arm - Strain – Medium (11°-30°) Deviation - Rx	Ea				R0.00	R0.00	R0.00
3.2.119	1744C	3 Phase - Delta / 2,5m Wood X-arm - Strain – Large (31°-60°) Deviation	Ea				R0.00	R0.00	R0.00
3.2.120	1744C	3 Phase - Delta / 2,5m Wood X-arm - Strain – Large (31°-60°) Deviation - Rx	Ea				R0.00	R0.00	R0.00
3.2.121	1745	3 Phase - Delta /2 x 2,5m wood x-arms/ 2 x 2.5 wood x-arms - strain - (60° - 90°) deviation (for Mink and Hare conductors)	Ea				R0.00	R0.00	R0.00
3.2.122	1745	3 Phase - Delta /2 x 2,5m wood x-arms/ 2 x 2.5 wood x-arms - strain - (60° - 90°) deviation (for Mink and Hare conductors) - Rx	Ea				R0.00	R0.00	R0.00
3.2.123	1745	3 Phase - Delta /2,5m wood x-arms /2.5 wood x-arms - strain - (60° - 90°) deviation (for Fox and 35 conductors)	Ea				R0.00	R0.00	R0.00
3.2.124	1745	3 Phase - Delta /2,5m wood x-arms /2.5 wood x-arms - strain - (60° - 90°) deviation (for Fox and 35 conductors) - Rx	Ea				R0.00	R0.00	R0.00
3.2.125	1745d	3 Phase - Delta /2 x 2,5m wood x-arms - strain - (61° - 90°) deviation (for Fox and 35 conductors)	Ea				R0.00	R0.00	R0.00
3.2.126	1745d	3 Phase - Delta /2 x 2,5m wood x-arms - strain - (61° - 90°) deviation (for Fox and 35 conductors) - Rx	Ea				R0.00	R0.00	R0.00
3.2.127	1746	3 Phase - Delta / 2,5m Wood X-arm - Strain – Terminal	Ea				R0.00	R0.00	R0.00
3.2.128	1746	3 Phase - Delta / 2,5m Wood X-arm - Strain – Terminal -RX	Ea				R0.00	R0.00	R0.00
3.2.129	1746A	3 Phase - Delta / 2,5m Wood X-arm - Strain – Terminal	Ea				R0.00	R0.00	R0.00
3.2.130	1746A	3 Phase - Delta / 2,5m Wood X-arm - Strain – Terminal -RX	Ea				R0.00	R0.00	R0.00
3.2.131	1746B	3 Phase - Delta / 2,5m Wood X-arm - Strain – Terminal	Ea				R0.00	R0.00	R0.00
3.2.132	1746B	3 Phase - Delta / 2,5m Wood X-arm - Strain – Terminal -RX	Ea				R0.00	R0.00	R0.00
3.2.133	1747	3 Phase - Delta (600mm spacing) / 2 x 2,5m Wood X-arm - Strain - 0° Deviation	Ea				R0.00	R0.00	R0.00
3.2.134	1747	3 Phase - Delta (600mm spacing) / 2 x 2,5m Wood X-arm - Strain - 0° Deviation -RX	Ea				R0.00	R0.00	R0.00
3.2.135	1747	3 Phase - Delta (800mm spacing) / 2 x 2,5m Wood X-arm - Strain - 0° Deviation	Ea				R0.00	R0.00	R0.00
3.2.136	1747	3 Phase - Delta (800mm spacing) / 2 x 2,5m Wood X-arm - Strain - 0° Deviation -RX	Ea				R0.00	R0.00	R0.00
3.2.137	1747A	3 Phase - Delta / 2 x 2,5m Wood X-arm - Strain - 0° Deviation	Ea				R0.00	R0.00	R0.00
3.2.138	1747A	3 Phase - Delta / 2 x 2,5m Wood X-arm - Strain - 0° Deviation -RX	Ea				R0.00	R0.00	R0.00
3.2.139	1748	3 Phase - Delta / 2 x 2,5m Wood X-arm - Strain - Medium(1°-60°) Deviation	Ea				R0.00	R0.00	R0.00
3.2.140	1748	3 Phase - Delta / 2 x 2,5m Wood X-arm - Strain - Medium(1°-60°) Deviation -RX	Ea				R0.00	R0.00	R0.00
3.2.141	1748A	3 Phase - Delta / 2 x 2,5m Wood X-arm - Strain - Small (1°- 10°) Deviation	Ea				R0.00	R0.00	R0.00
3.2.142	1748A	3 Phase - Delta / 2 x 2,5m Wood X-arm - Strain - Small (1°- 10°) Deviation -RX	Ea				R0.00	R0.00	R0.00
3.2.143	1748B	3 Phase - Delta / 2 x 2,5m Wood X-arm - Strain - Medium (11°- 30°) Deviation	Ea				R0.00	R0.00	R0.00
3.2.144	1748B	3 Phase - Delta / 2 x 2,5m Wood X-arm - Strain - Medium (11°- 30°) Deviation -RX	Ea				R0.00	R0.00	R0.00
3.2.145	1748C	3 Phase - Delta / 2 x 2,5m Wood X-arm - Strain - Large (31°- 60°) Deviation	Ea				R0.00	R0.00	R0.00
3.2.146	1748C	3 Phase - Delta / 2 x 2,5m Wood X-arm - Strain - Large (31°- 60°) Deviation -RX	Ea				R0.00	R0.00	R0.00
3.2.147	1749	3 Phase - Delta / 2 x 2,5m Wood X-arm - Strain - Terminal	Ea				R0.00	R0.00	R0.00
3.2.148	1749	3 Phase - Delta / 2 x 2,5m Wood X-arm - Strain - Terminal -RX	Ea				R0.00	R0.00	R0.00
3.2.149	1749A	3 Phase - Delta / 2 x 2,5m Wood X-arm - Strain - Terminal	Ea				R0.00	R0.00	R0.00
3.2.150	1749A	3 Phase - Delta / 2 x 2,5m Wood X-arm - Strain - Terminal -RX	Ea				R0.00	R0.00	R0.00
3.2.151	1750	3 Phase - H-Pole / 4,5m Wood X-arm – Intermediate - 0° Deviation	Ea				R0.00	R0.00	R0.00
3.2.152	1750	3 Phase - H-Pole / 4,5m Wood X-arm – Intermediate - 0° Deviation -RX	Ea				R0.00	R0.00	R0.00
3.2.153	1750	3 Phase - H-Pole / 4,5m Wood X-arm – Intermediate - 0° Deviation -With Spark Gap Device	Ea				R0.00	R0.00	R0.00

3.2.154	1750	3 Phase - H-Pole / 4,5m Wood X-arm – Intermediate - 0° Deviation -With Spark Gap Device-RX	Ea				R0.00	R0.00	R0.00
3.2.155	1753	3 Phase - H-Pole / 4,5m Wood X-arm - Strain – 0° Deviation	Ea				R0.00	R0.00	R0.00
3.2.156	1753	3 Phase - H-Pole / 4,5m Wood X-arm - Strain – 0° Deviation -RX	Ea				R0.00	R0.00	R0.00
3.2.157	1754	3 Phase - H-Pole / 4,5m Wood X-arm - Strain – Medium(1°-60°) Deviation (Fox and 35 conductor)	Ea				R0.00	R0.00	R0.00
3.2.158	1754	3 Phase - H-Pole / 4,5m Wood X-arm - Strain – Medium(1°-60°) Deviation -RX (Fox and 35 conductor)	Ea				R0.00	R0.00	R0.00
3.2.159	1754	3 Phase - H-Pole / 2x4,5m Wood X-arm - Strain – Medium(1°-60°) Deviation (Mink and Hare conductors)	Ea				R0.00	R0.00	R0.00
3.2.160	1754	3 Phase - H-Pole / 2x4,5m Wood X-arm - Strain – Medium(1°-60°) Deviation -RX (Mink and Hare conductors)	Ea				R0.00	R0.00	R0.00
3.2.161	1756	3 Phase - H-Pole / 4,5m Wood X-arm - Strain – Terminal	Ea				R0.00	R0.00	R0.00
3.2.162	1756	3 Phase - H-Pole / 4,5m Wood X-arm - Strain – Terminal -RX	Ea				R0.00	R0.00	R0.00
3.2.163	1760	3 Phase - H-Pole / 3,5m Wood X-arm – Intermediate - 0° Deviation	Ea				R0.00	R0.00	R0.00
3.2.164	1760	3 Phase - H-Pole / 3,5m Wood X-arm – Intermediate - 0° Deviation -RX	Ea				R0.00	R0.00	R0.00
3.2.165	1760	3 Phase - H-Pole / 3,5m Wood X-arm – Intermediate - 0° Deviation - With Spark Gap Device	Ea				R0.00	R0.00	R0.00
3.2.166	1760	3 Phase - H-Pole / 3,5m Wood X-arm – Intermediate - 0° Deviation -With Spark Gap Device RX	Ea				R0.00	R0.00	R0.00
3.2.167	1763	3 Phase - H-Pole / 3,5m Wood X-arm - Strain - 0° Deviation	Ea				R0.00	R0.00	R0.00
3.2.168	1763	3 Phase - H-Pole / 3,5m Wood X-arm - Strain - 0° Deviation -RX	Ea				R0.00	R0.00	R0.00
3.2.169	1764	3 Phase - H-Pole / 3,5m Wood X-arm - Strain - Medium(1°-60°) Deviation	Ea				R0.00	R0.00	R0.00
3.2.170	1764	3 Phase - H-Pole / 3,5m Wood X-arm - Strain - Medium(1°-60°) Deviation -RX	Ea				R0.00	R0.00	R0.00
3.2.171	1766	3 Phase - H-Pole / 3,5m Wood X-arm - Strain - Terminal	Ea				R0.00	R0.00	R0.00
3.2.172	1766	3 Phase - H-Pole / 3,5m Wood X-arm - Strain - Terminal -RX	Ea				R0.00	R0.00	R0.00
3.2.173	1767	3 Phase - H-Pole / 2 x 3,5m Wood X-arm – Strain - 0° Deviation	Ea				R0.00	R0.00	R0.00
3.2.174	1767	3 Phase - H-Pole / 2 x 3,5m Wood X-arm – Strain - 0° Deviation -RX	Ea				R0.00	R0.00	R0.00
3.2.175	1768	3 Phase - H-Pole / 2 x 3,5m Wood X-arm – Strain - Medium(1°-60°) Deviation	Ea				R0.00	R0.00	R0.00
3.2.176	1768	3 Phase - H-Pole / 2 x 3,5m Wood X-arm – Strain - Medium(1°-60°) Deviation -RX	Ea				R0.00	R0.00	R0.00
3.2.177	1769	3 Phase - H-Pole / 2 x 3,5m Wood X-arm - Strain – Terminal	Ea				R0.00	R0.00	R0.00
3.2.178	1769	3 Phase - H-Pole / 2 x 3,5m Wood X-arm - Strain – Terminal -RX	Ea				R0.00	R0.00	R0.00
3.2.179	1770	3 Phase - H-Pole / 4,5m Wood X-arm – Intermediate - 0° Deviation	Ea				R0.00	R0.00	R0.00
3.2.180	1770	3 Phase - H-Pole / 4,5m Wood X-arm – Intermediate - 0° Deviation -RX	Ea				R0.00	R0.00	R0.00
3.2.181	1770	3 Phase - H-Pole / 4,5m Wood X-arm – Intermediate - 0° Deviation - With Spark Gap Device	Ea				R0.00	R0.00	R0.00
3.2.182	1770	3 Phase - H-Pole / 4,5m Wood X-arm – Intermediate - 0° Deviation - With Spark Gap Device -RX	Ea				R0.00	R0.00	R0.00
3.2.183	1770# (y)	3 Phase - H-Pole / 4,5m Wood X-arm – Intermediate - 0° Deviation	Ea				R0.00	R0.00	R0.00
3.2.184	1770# (y)	3 Phase - H-Pole / 4,5m Wood X-arm – Intermediate - 0° Deviation -RX	Ea				R0.00	R0.00	R0.00
3.2.185	1770# (y)	3 Phase - H-Pole / 4,5m Wood X-arm – Intermediate - 0° Deviation - With Spark Gap Device	Ea				R0.00	R0.00	R0.00
3.2.186	1770# (y)	3 Phase - H-Pole / 4,5m Wood X-arm – Intermediate - 0° Deviation - With Spark Gap Device -RX	Ea				R0.00	R0.00	R0.00
3.2.187	1771	3 Phase - H-Pole / 4,5m Wood X-arm – Intermediate - Small(1°-±10°) Deviation	Ea				R0.00	R0.00	R0.00
3.2.188	1771	3 Phase - H-Pole / 4,5m Wood X-arm – Intermediate - Small(1°-±10°) Deviation -RX	Ea				R0.00	R0.00	R0.00
3.2.189	1771A	3 Phase - H-Pole / 4,5m Wood X-arm – Intermediate - Small(1°-±5°) Deviation	Ea				R0.00	R0.00	R0.00
3.2.190	1771A	3 Phase - H-Pole / 4,5m Wood X-arm – Intermediate - Small(1°-±5°) Deviation -RX	Ea				R0.00	R0.00	R0.00
3.2.191	1773	3 Phase - H-Pole / 4,5m Wood X-arm - Strain - 0° Deviation	Ea				R0.00	R0.00	R0.00
3.2.192	1773	3 Phase - H-Pole / 4,5m Wood X-arm - Strain - 0° Deviation-RX	Ea				R0.00	R0.00	R0.00
3.2.193	1774	3 Phase – H-Pole / 4,5m Wood X-arm - Strain - Medium(1°-60°) Deviation	Ea				R0.00	R0.00	R0.00
3.2.194	1774	3 Phase – H-Pole / 4,5m Wood X-arm - Strain - Medium(1°-60°) Deviation -RX	Ea				R0.00	R0.00	R0.00
3.2.195	1774A	3 Phase – H-Pole / 4,5m Wood X-arm - Strain - Small (1°-10°) Deviation	Ea				R0.00	R0.00	R0.00
3.2.196	1774A	3 Phase – H-Pole / 4,5m Wood X-arm - Strain - Small (1°- 10°) Deviation -RX	Ea				R0.00	R0.00	R0.00
3.2.197	1774B	3 Phase – H-Pole / 4,5m Wood X-arm - Strain - Medium (11°- 30°) Deviation	Ea				R0.00	R0.00	R0.00
3.2.198	1774B	3 Phase – H-Pole / 4,5m Wood X-arm - Strain - Medium (11°- 30°) Deviation -RX	Ea				R0.00	R0.00	R0.00
3.2.199	1774C	3 Phase – H-Pole / 4,5m Wood X-arm - Strain - Large (31°- 60°) Deviation	Ea				R0.00	R0.00	R0.00
3.2.200	1774C	3 Phase – H-Pole / 4,5m Wood X-arm - Strain - Large (31°- 60°) Deviation -RX	Ea				R0.00	R0.00	R0.00
3.2.201	1776	3 Phase – H-Pole / 4,5m Wood X-arm - Strain - Terminal	Ea				R0.00	R0.00	R0.00
3.2.202	1776	3 Phase – H-Pole / 4,5m Wood X-arm - Strain - Terminal -RX	Ea				R0.00	R0.00	R0.00
3.2.203	1777	3 Phase – H-Pole / 2 x 4,5m Wood X-arm – Strain - 0° Deviation	Ea				R0.00	R0.00	R0.00
3.2.204	1777	3 Phase – H-Pole / 2 x 4,5m Wood X-arm – Strain - 0° Deviation -RX	Ea				R0.00	R0.00	R0.00
3.2.205	1778	3 Phase – H-Pole / 2 x 4,5m Wood X-arm – Strain – Medium(1°-60°) Deviation	Ea				R0.00	R0.00	R0.00
3.2.206	1778	3 Phase – H-Pole / 2 x 4,5m Wood X-arm – Strain – Medium(1°-60°) Deviation -RX	Ea				R0.00	R0.00	R0.00
3.2.207	1778A	3 Phase – H-Pole / 2 x 4,5m Wood X-arm – Strain – Small (1°-10°) Deviation	Ea				R0.00	R0.00	R0.00
3.2.208	1778A	3 Phase – H-Pole / 2 x 4,5m Wood X-arm – Strain – Small (1°-10°) Deviation -RX	Ea				R0.00	R0.00	R0.00
3.2.209	1778B	3 Phase – H-Pole / 2 x 4,5m Wood X-arm – Strain – Medium (11°-30°) Deviation	Ea				R0.00	R0.00	R0.00

3.2.210	1778B	3 Phase – H-Pole / 2 x 4,5m Wood X-arm – Strain – Medium (11°-30°) Deviation -RX	Ea				R0.00	R0.00	R0.00
3.2.211	1778C	3 Phase – H-Pole / 2 x 4,5m Wood X-arm – Strain – Large (31°- 60°) Deviation	Ea				R0.00	R0.00	R0.00
3.2.212	1778C	3 Phase – H-Pole / 2 x 4,5m Wood X-arm – Strain – Large (31°- 60°) Deviation -RX	Ea				R0.00	R0.00	R0.00
3.2.213	1778D	3 Phase – H-Pole / 2 x 4,5m Wood X-arm – Strain – Large (61°- 90°) Deviation	Ea				R0.00	R0.00	R0.00
3.2.214	1778D	3 Phase – H-Pole / 2 x 4,5m Wood X-arm – Strain – Large (61°- 90°) Deviation -RX	Ea				R0.00	R0.00	R0.00
3.2.215	1779	3 Phase – H-Pole / 2 x 4,5m Wood X-arm – Strain – Terminal	Ea				R0.00	R0.00	R0.00
3.2.216	1779	3 Phase – H-Pole / 2 x 4,5m Wood X-arm – Strain – Terminal-RX	Ea				R0.00	R0.00	R0.00
3.2.217	1783	3 Phase – Trips – Strain - 0° Deviation	Ea				R0.00	R0.00	R0.00
3.2.218	1783	3 Phase – Trips – Strain - 0° Deviation - RX	Ea				R0.00	R0.00	R0.00
3.2.219	1784	3 Phase – Trips – Strain - Large(1°-90°) Deviation (Front view)	Ea				R0.00	R0.00	R0.00
3.2.220	1784	3 Phase – Trips – Strain - Large(1°-90°) Deviation (Front view) -RX	Ea				R0.00	R0.00	R0.00
3.2.221	1784A	3 Phase – Trips – Strain - Small (1°- 10°) Deviation (Front view)	Ea				R0.00	R0.00	R0.00
3.2.222	1784A	3 Phase – Trips – Strain - Small (1°- 10°) Deviation (Front view) -RX	Ea				R0.00	R0.00	R0.00
3.2.223	1784B	3 Phase – Trips – Strain - Medium (11°- 30°) Deviation (Front view)	Ea				R0.00	R0.00	R0.00
3.2.224	1784B	3 Phase – Trips – Strain - Medium (11°- 30°) Deviation (Front view) -RX	Ea				R0.00	R0.00	R0.00
3.2.225	1784C	3 Phase – Trips – Strain - Large (31°- 60°) Deviation (Front view)	Ea				R0.00	R0.00	R0.00
3.2.226	1784C	3 Phase – Trips – Strain - Large (31°- 60°) Deviation (Front view) -RX	Ea				R0.00	R0.00	R0.00
3.2.227	1784D	3 Phase – Trips – Strain - Large (61°- 90°) Deviation (Front view)	Ea				R0.00	R0.00	R0.00
3.2.228	1784D	3 Phase – Trips – Strain - Large (61°- 90°) Deviation (Front view) -RX	Ea				R0.00	R0.00	R0.00
3.2.229	1785	MV heavy conductor - 3 phase staggered vertical 800mm spacing intermediate - o° deviation (wood poles)	Ea				R0.00	R0.00	R0.00
3.2.230	1785	MV heavy conductor - 3 phase staggered vertical 800mm spacing intermediate - o° deviation (wood poles) With Spark Gap Device	Ea				R0.00	R0.00	R0.00
3.2.231	1785	MV heavy conductor - 3 phase staggered vertical 800mm spacing intermediate - o° deviation (wood poles) - Rx	Ea				R0.00	R0.00	R0.00
3.2.232	1785	MV heavy conductor - 3 phase staggered vertical 800mm spacing intermediate - o° deviation (wood poles) - Rx With Spark Gap Device	Ea				R0.00	R0.00	R0.00
3.2.233	1786	MV heavy conductor - 22kv 3 phase - vertical 800mm spacing strain - o° deviation (wood poles)	Ea				R0.00	R0.00	R0.00
3.2.234	1787	MV heavy conductor - 22kv 3 phase - vertical 800mm spacing strain - o-30° deviation (wood poles)	Ea				R0.00	R0.00	R0.00
3.2.235	1789	MV heavy conductor - 22kv 3 phase - vertical 800mm spacing strain - terminal (wood poles)	Ea				R0.00	R0.00	R0.00
3.2.236	1790	Heavy Conductor - 3 Phase H-Pole-3500mm Wooden X-arm Intermediate 0° Deviation	Ea				R0.00	R0.00	R0.00
3.2.237	1790	Heavy Conductor - 3 Phase H-Pole-3500mm Wooden X-arm Intermediate 0° Deviation With Spark Gap Device	Ea				R0.00	R0.00	R0.00
3.2.238	1790	Heavy Conductor - 3 Phase H-Pole-3500mm Wooden X-arm Intermediate 0° Deviation Rx	Ea				R0.00	R0.00	R0.00
3.2.239	1790	Heavy Conductor - 3 Phase H-Pole-3500mm Wooden X-arm Intermediate 0° Deviation Rx With Spark Gap Device	Ea				R0.00	R0.00	R0.00
3.2.240	1791	MV heavy conductor - 22kv 3 phase - vertical 800mm spacing strain - Large (60°- 90°) Deviation (double wood poles)	Ea				R0.00	R0.00	R0.00
3.2.241	1792	MV heavy conductor - 22kv 3 phase - vertical 800mm spacing strain - Large (30°- 60°) Deviation (double wood poles)	Ea				R0.00	R0.00	R0.00
3.2.242	1793	Heavy Conductor H-Pole Suspension Structure	Ea				R0.00	R0.00	R0.00
3.2.243	1793	Heavy Conductor H-Pole Suspension Structure- With Spark Gap Device	Ea				R0.00	R0.00	R0.00
3.2.244	1794	Heavy Conductor H-Pole Braced In-Line strain	Ea				R0.00	R0.00	R0.00
3.2.245	1795	Heavy Conductor H-Pole Braced Angle strain (1-60°)	Ea				R0.00	R0.00	R0.00
3.2.246	1796	Heavy Conductor H-Pole Braced Terminal structure	Ea				R0.00	R0.00	R0.00
3.2.247	1873	3 Phase H-pole /2X4.5m Wooden X-arm Strain Large (60-90°) Deviation	Ea				R0.00	R0.00	R0.00
3.2.248	1873	3 Phase H-pole /2X4.5m Wooden X-arm Strain Large (60-90°) Deviation Rx	Ea				R0.00	R0.00	R0.00
3.2.249	0450	SWER - Take-Off from Intermediate	Ea				R0.00	R0.00	R0.00
3.2.250	0450	SWER - Take-Off from Intermediate - Rx	Ea				R0.00	R0.00	R0.00
3.2.251	0450	SWER - Take-Off from strain	Ea				R0.00	R0.00	R0.00
3.2.252	0450	SWER - Take-Off from strain - Rx	Ea				R0.00	R0.00	R0.00
3.2.253	0451	SWER - Take-Off With Earthwire from Intermediate	Ea				R0.00	R0.00	R0.00
3.2.254	0451	SWER - Take-Off With Earthwire from Intermediate - Rx	Ea				R0.00	R0.00	R0.00
3.2.255	0451	SWER - Take-Off With Earthwire from strain	Ea				R0.00	R0.00	R0.00
3.2.256	0451	SWER - Take-Off With Earthwire from strain - Rx	Ea				R0.00	R0.00	R0.00
3.2.257	1801	3 Phase Take-off – Vertical 600mm Spacing	Ea				R0.00	R0.00	R0.00
3.2.258	1801	3 Phase Take-off – Vertical 600mm Spacing Rx	Ea				R0.00	R0.00	R0.00
3.2.259	1804	3 Phase Take-off - 2,5m Wooden X-arm	Ea				R0.00	R0.00	R0.00
3.2.260	1804	3 Phase Take-off - 2,5m Wooden X-arm-RX	Ea				R0.00	R0.00	R0.00
3.2.261	1805	3 Phase Take-off - 2 x 2,5m Wooden X-arm	Ea				R0.00	R0.00	R0.00
3.2.262	1805	3 Phase Take-off - 2 x 2,5m Wooden X-arm-RX	Ea				R0.00	R0.00	R0.00
3.2.263	1806	3 Phase Take-off - H-Pole (3,5m Wooden X-arm)	Ea				R0.00	R0.00	R0.00
3.2.264	1806	3 Phase Take-off - H-Pole (3,5m Wooden X-arm)-RX	Ea				R0.00	R0.00	R0.00
3.2.265	1807	3 Phase Take-off - H-Pole (2 x 3,5m Wooden X-arm)	Ea				R0.00	R0.00	R0.00
3.2.266	1807	3 Phase Take-off - H-Pole (2 x 3,5m Wooden X-arm) -RX	Ea				R0.00	R0.00	R0.00
3.2.267	1811	Phase / phase Take-off – Vertical (600mm spacing)	Ea				R0.00	R0.00	R0.00
3.2.268	1811	Phase / phase Take-off – Vertical (600mm spacing)-RX	Ea				R0.00	R0.00	R0.00
3.2.269	1814	Phase / phase Take-off - 2,5m Wooden X-arm	Ea				R0.00	R0.00	R0.00
3.2.270	1814	Phase / phase Take-off - 2,5m Wooden X-arm-RX	Ea				R0.00	R0.00	R0.00
3.2.271	1815	Phase / phase Take-off - 2 x 2,5m Wooden X-arm	Ea				R0.00	R0.00	R0.00
3.2.272	1815	Phase / phase Take-off - 2 x 2,5m Wooden X-arm-RX	Ea				R0.00	R0.00	R0.00
3.2.273	1816	Phase / phase Take-off - H-Pole (3,5m Wooden X-arm)	Ea				R0.00	R0.00	R0.00
3.2.274	1816	Phase / phase Take-off - H-Pole (3,5m Wooden X-arm)-RX	Ea				R0.00	R0.00	R0.00
3.2.275	1817	Phase / phase Take-off - H-Pole (2 x 3,5m Wooden X-arm)	Ea				R0.00	R0.00	R0.00
3.2.276	1817	Phase / phase Take-off - H-Pole (2 x 3,5m Wooden X-arm) -RX	Ea				R0.00	R0.00	R0.00
3.2.277	ER00227-17-16(use latest Revision)	Erect goal posts, supply and erect temporary structures and traffic signs and regulate traffic during construction for all road crossings/railways crossings .	Ea				R0.00	R0.00	R0.00

MISCELLANEOUS	Allow for the following end items to be applied.								
3.3									
3.3.1	3053	Bird diverter (yellow or black)	Ea				R0.00	R0.00	R0.00
3.3.2	3175	Damper,vibrat spiral	Ea				R0.00	R0.00	R0.00
3.3.3	3073	Joint, M/Span Mink/Pine I/C	Ea				R0.00	R0.00	R0.00
3.3.4	3073	Joint, M/Span Hare/Oak I/C	Ea				R0.00	R0.00	R0.00
3.3.5	3073	Joint, M/Span Fox /35 I/C	Ea				R0.00	R0.00	R0.00
3.3.6	3228	Joint, Full Ten Auto Hare/Oak	Ea				R0.00	R0.00	R0.00
3.3.7	3228	Joint, Full Ten Auto 5.82 TO 8.64mm	Ea				R0.00	R0.00	R0.00
3.3.8	3228	Joint, Full Ten Auto Mink/Pine	Ea				R0.00	R0.00	R0.00
3.3.9	7028	Set: Device warning-Aircraft warning 8.87-13.55;2	set				R0.00	R0.00	R0.00
3.3.10	7028	Set: Device warning -Aircraft warning 7.35-14.16;2	set				R0.00	R0.00	R0.00
3.3.11	7028	Set: Device warning-Aircraft warning 18.13-23.88;2	set				R0.00	R0.00	R0.00
3.3.12	3049	Aluminium pole tag 25x150mm with pole number	Ea				R0.00	R0.00	R0.00
3.3.13	0310	Re-instate broken/damage bonding & BIL on existing structure	Ea				R0.00	R0.00	R0.00
3.3.14	310	Re-instate broken/damage bonding & BIL on existing structure - With Spark Gap Device	Ea				R0.00	R0.00	R0.00
3.3.15	250	Insulator conductor assembly strain thimble/helical dead end only	Ea				R0.00	R0.00	R0.00
3.3.16	251	Insulator/conductor assembly- strain pistol grip only	Ea				R0.00	R0.00	R0.00
3.3.17	253	Insulator/conductor assembly-suspension - cradle clamp and armour rods	Ea				R0.00	R0.00	R0.00
3.3.18	256	MV Insulator/conductor assembly - posts with a wrap lock	Ea				R0.00	R0.00	R0.00
3.3.19	256	MV Insulator/conductor assembly - trunnion line posts cap and preform armour rods	Ea				R0.00	R0.00	R0.00
3.3.20	257	MV-insulator/conductor assembly - posts - road crossing full wrap top groove tie	Ea				R0.00	R0.00	R0.00
3.3.21	259	Side groove tie post insulator/conductor assembly	Ea				R0.00	R0.00	R0.00
3.3.22	390	MV-post insulator assembly - steel crossarm - short ratchet spindle	Ea				R0.00	R0.00	R0.00
3.3.23	390	MV post insulator assembly - wood pole / wood crossarm long regular spindle	Ea				R0.00	R0.00	R0.00
3.3.24	373	MV-strain assembly - wood crossarm - eyebolt	Ea				R0.00	R0.00	R0.00
3.3.25	374	MV-strain assembly - (up to and including hare conductor) 2 x wood crossarm - threaded rod	Ea				R0.00	R0.00	R0.00
3.3.26	374	MV heavy strain assembly - (conductor above hare) single wood pole strain bracket (strain insulator sub assembly) (adjustable and non-adjustable)	Ea				R0.00	R0.00	R0.00
3.3.27	374	MV heavy strain assembly - (conductor above hare) h-wood pole with double crossarms strain bracket (strain insulator sub assembly) (adjustable and non-adjustable)	Ea				R0.00	R0.00	R0.00
3.3.28	375	MV-terminal assembly - wood crossarm - eyebolt	Ea				R0.00	R0.00	R0.00
3.3.29	376	MV-terminal assembly - (up to and including hare conductor) 2 x wood cross - threaded rod	Ea				R0.00	R0.00	R0.00
3.3.30	376	MV heavy terminal assembly - (conductor above hare) single wood pole strain bracket adjustable and non-adjustable insulator string sub assembly)	Ea				R0.00	R0.00	R0.00
3.3.31	376	MV heavy terminal assembly - (conductor above hare) h-pole with double crossarms strain bracket adjustable and non-adjustable insulator string sub assembly)	Ea				R0.00	R0.00	R0.00
3.3.32		Installation of raptor protector	Ea				R0.00	R0.00	R0.00
3.3.33	399	MV - equipment mounting assembly anti-climbing - device barbed wire	Ea				R0.00	R0.00	R0.00
3.3.34	399	MV - equipment mounting assembly anti-climbing device - barbed wire for stay assembly	Ea				R0.00	R0.00	R0.00
3.3.35	399	MV - equipment mounting assembly anti-climbing device - for parallel stay assembly	Ea				R0.00	R0.00	R0.00
3.3.36	310	Install broken/damage bonding & BIL on existing structure	Ea				R0.00	R0.00	R0.00
3.3.37	310	Install broken/damage bonding & BIL on existing structure with spark gap device	Ea				R0.00	R0.00	R0.00
3.3.38		Pegging of MV poles and stays	Ea				R0.00	R0.00	R0.00
		TOTAL CARRIED TO SUMMARY PAGE					R0.00	R0.00	R0.00

BILL NO: 4		LV OVERHEAD SYSTEM		PROJECT TOTALS					
Note: a)All installations, assemblies and activities shall be as per Eskom DDT series, Eskom national or Eskom local technical instructions where applicable b) Eskom will advise what is free issue material and what is contractor supplied material									
NO.	D-D-T	DESCRIPTION	UNIT						
LV CONDUCTOR	Install Eskom issued specified conductor. Material quantity to allow for 5% sag in addition to actual conductor length quantity. Installation includes handling, stringing and final sagging.								
4.1		A. Handling, stringing and final sagging.							
4.1.1	3141	COND,ABC 2C XLPE 35SQ INS NEUT	m					R0.00	R0.00
4.1.2	3141	COND,ABC 3C XLPE 35SQ INS NEUT	m					R0.00	R0.00
4.1.3	3141	COND,ABC 4C XLPE 35SQ INS NEUT	m					R0.00	R0.00
4.1.4	3141	COND,ABC 5C XLPE 35SQ INS NEUT	m					R0.00	R0.00
4.1.5	3141	COND,ABC 3C XLPE 70SQ INS NEUT	m					R0.00	R0.00
4.1.6	3141	COND,ABC 4C XLPE 70SQ INS NEUT	m					R0.00	R0.00
4.1.7	3141	COND,ABC 5C XLPE 70SQ INS NEUT	m					R0.00	R0.00
4.1.8	3141	COND,ABC 4C XLPE 95SQ INS NEUT	m					R0.00	R0.00
4.1.9	3141	COND,ABC 5C XLPE 95SQ INS NEUT	m					R0.00	R0.00
LV STRUCTURES	Erect LV support structures . Auxiliary equipment includes: strain clamps, suspension clamps, cable ties, connectors, LV shackle insulators, binding wires, D brackets, dead end pre-forms, threaded rods, pigtail bolts, eyenuts etc. Pole, stay and strut material and excavations are measured elsewhere.								
4.2		A. List of three-phase Bare Wire wood pole							
4.2.1	0920	LV 3 phase Bare Wire Suspension Assembly 0 Deg	Ea				R0.00	R0.00	R0.00
4.2.2	0921	LV 3 phase Bare Wire in-line Strain Assembly	Ea				R0.00	R0.00	R0.00
4.2.3	0922	LV 3 phase Bare Wire 1-100 Deg Angle Assembly	Ea				R0.00	R0.00	R0.00
4.2.4	0924	LV 3 phase Bare Wire Terminal Assembly	Ea				R0.00	R0.00	R0.00
4.2.5	0925	LV 3 phase Bare Wire T-Off Assembly from Intermediate	Ea				R0.00	R0.00	R0.00
4.2.6	0926	LV 3 phase Bare Wire Intermediate Right Angle Crossing	Ea				R0.00	R0.00	R0.00
A.5.2.1.	0927	LV 3 phase Bare Wire T-Off Assembly from Strain	Ea				R0.00	R0.00	R0.00
A.5.2.2.	0928	LV 3 phase Bare Wire Cable Connection	Ea				R0.00	R0.00	R0.00
A.5.2.3.	0929	LV 3 phase Bare Wire Service Distribution Box Connection	Ea				R0.00	R0.00	R0.00
A.5.2.4.	0932	LV 3 phase Bare Wire Open Wire/ABC Connection	Ea				R0.00	R0.00	R0.00
4.2.11	0934	LV 3 phase Bare Wire Intermediate Strain Crossing	Ea				R0.00	R0.00	R0.00
4.2.12	0935	LV 3 phase Bare Wire Strain-Strain Crossing	Ea				R0.00	R0.00	R0.00
4.3.		B. List of Dual - phase Bare Wire Wood pole							
4.3.1	0940	LV 2phase Bare Wire Suspension Assembly 0 Deg	Ea				R0.00	R0.00	R0.00
4.3.2	0941	LV 2phase Bare Wire in-line Strain Assembly	Ea				R0.00	R0.00	R0.00
4.3.3	0942	LV 2 phase Bare Wire 1-100 Deg Angle Assembly	Ea				R0.00	R0.00	R0.00
4.3.4	0944	LV 2 phase Bare Wire Terminal Assembly	Ea				R0.00	R0.00	R0.00
4.3.5	0945	LV 2phase Bare Wire T-Off Assembly from Intermediate	Ea				R0.00	R0.00	R0.00
4.3.6	0946	LV 2phase Bare Wire Intermediate Right Angle Crossing	Ea				R0.00	R0.00	R0.00
4.3.7	0947	LV 2 phase Bare Wire T-Off Assembly from Strain	Ea				R0.00	R0.00	R0.00
4.3.8	0948	LV 2 phase Bare Wire Cable Connection	Ea				R0.00	R0.00	R0.00
4.3.9	0949	LV 2 phase Bare Wire Service Distribution Box Connection	Ea				R0.00	R0.00	R0.00
4.3.10	0950	LV 2 phase Bare Wire Open Wire/ABC Connection	Ea				R0.00	R0.00	R0.00
4.3.11	0951	LV 2 phase Bare Wire Intermediate Strain Crossing	Ea				R0.00	R0.00	R0.00
4.3.12	0952	LV 2 phase Bare Wire Strain-Strain Crossing	Ea				R0.00	R0.00	R0.00
4.4.		C. List of Single-phase Bare Wire wood pole							
4.4.1	0960	LV 1phase Bare Wire Suspension Assembly 0 Deg	Ea				R0.00	R0.00	R0.00
4.4.2	0961	LV 1phase Bare Wire in-line Strain Assembly	Ea				R0.00	R0.00	R0.00
4.4.3	0962	LV 1 phase Bare Wire 1-100 Deg Angle Assembly	Ea				R0.00	R0.00	R0.00
4.4.4	0964	LV 1 phase Bare Wire Terminal Assembly	Ea				R0.00	R0.00	R0.00
4.4.5	0965	LV 1phase Bare Wire T-Off Assembly from Intermediate	Ea				R0.00	R0.00	R0.00
4.4.6	0966	LV 1phase Bare Wire Intermediate Right Angle Crossing	Ea				R0.00	R0.00	R0.00
4.4.7	0967	LV 1 phase Bare Wire T-Off Assembly from Strain	Ea				R0.00	R0.00	R0.00
4.4.8	0968	LV 1 phase Bare Wire Cable Connection	Ea				R0.00	R0.00	R0.00
4.4.9	0969	LV 1 phase Bare Wire Service Distribution Box Connection	Ea				R0.00	R0.00	R0.00
4.4.10	0970	LV 1phase Bare Wire Open Wire/ABC Connection	Ea				R0.00	R0.00	R0.00
4.4.11	0971	LV 1 phase Bare Wire Intermediate Strain Crossing	Ea				R0.00	R0.00	R0.00
4.4.12	0972	LV 1 phase Bare Wire Strain-Strain Crossing	Ea				R0.00	R0.00	R0.00

LV STRUCTURES	Erect LV support structures. (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, eye nuts, terminations to be included. Pole, stay and strut material and excavations are measured elsewhere.								
4.5.		A. List of single-phase ABC wood pole							
4.5.1	1153	LV 1 phase insulated/bare neutral ABC Suspension Assembly (0° - 30°)	Ea				R0.00	R0.00	R0.00
4.5.2	1154	LV 1 phase insulated/bare neutral ABC Terminal Assembly	Ea				R0.00	R0.00	R0.00
4.5.3	1155	LV 1 phase insulated/bare neutral ABC Terminal Assembly	Ea				R0.00	R0.00	R0.00
4.5.4	1156	LV 1 phase insulated/bare neutral LV 2 phase bare neutral	Ea				R0.00	R0.00	R0.00
4.5.5	1157	LV 1 phase insulated/bare neutral ABC T from Intermediate	Ea				R0.00	R0.00	R0.00
4.5.6	1158	LV 1 phase insulated/bare neutral ABC Cross Intermediate Suspension Assembly	Ea				R0.00	R0.00	R0.00
4.5.7	1159	LV 1 phase insulated/bare neutral ABC T from Strain	Ea				R0.00	R0.00	R0.00
4.5.8	1160	LV 1 phase insulated/bare neutral ABC X Intermediate-Strain Assembly	Ea				R0.00	R0.00	R0.00
4.6.		B. List of Dual - phase ABC wood pole							
4.6.1	1145	LV 2 phase insulated/bare neutral ABC Suspension Assembly (0° - 30°)	Ea				R0.00	R0.00	R0.00
4.6.2	1146	LV 2 phase insulated/bare neutral LABC Terminal Assembly	Ea				R0.00	R0.00	R0.00
4.6.3	1147	LV 2 phase insulated/bare neutral ABC Strain Assembly (0° - 60°)	Ea				R0.00	R0.00	R0.00
4.6.4	1148	LV 2 phase insulated/bare neutral ABC Strain Assembly (60° - 90°)	Ea				R0.00	R0.00	R0.00
4.6.5	1149	LV 2 phase insulated/bare neutral ABC T from Intermediate	Ea				R0.00	R0.00	R0.00
4.6.6	1150	LV 2 phase insulated/bare neutral ABC Intermediate Suspension Assembly	Ea				R0.00	R0.00	R0.00
4.6.7	1151	LV 2 phase insulated/bare neutral ABC T from Strain	Ea				R0.00	R0.00	R0.00
4.6.8	1152	LV 2 phase insulated/bare neutral ABC X Intermediate-Strain Assembly	Ea				R0.00	R0.00	R0.00
4.7.		C. List of Three-phase ABC wood pole							
4.7.1	1100	LV 3 phase insulated/bare neutral ABC Suspension Assembly (0° - 30°)	Ea				R0.00	R0.00	R0.00
4.7.2	1120	LV 3 phase insulated/bare neutral LABC Terminal Assembly	Ea				R0.00	R0.00	R0.00
4.7.3	1121	LV 3 phase insulated/bare neutral ABC Strain Assembly (0° - 60°)	Ea				R0.00	R0.00	R0.00
4.7.4	1122	LV 3 phase insulated/bare neutral ABC Strain Assembly (60° - 90°)	Ea				R0.00	R0.00	R0.00
4.7.5	1140	LV 3 phase insulated/bare neutral ABC T from Intermediate	Ea				R0.00	R0.00	R0.00
4.7.6	1141	LV 3 phase insulated/bare neutral ABC Intermediate Suspension Assembly	Ea				R0.00	R0.00	R0.00
4.7.7	1142	LV 3 phase insulated/bare neutral ABC T from Strain	Ea				R0.00	R0.00	R0.00
4.7.8	1143	LV 3 phase insulated/bare neutral ABC X Intermediate-Strain Assembly	Ea				R0.00	R0.00	R0.00

LOW VOLTAGE FUSE UNITS	Install LV fuse units. Accessories inclusive of fuse bracket and mounting hardware, fuse holders and appropriate labels. The LV NH00 fuse rating shall be as per the design.								
4.8.									
4.8.1	0309	Three phase trf and LV fuse holder connection - ABC conductor- 40A NH00	Set				R0.00	R0.00	R0.00
4.8.2	0309	Three phase trf and LV fuse holder connection - ABC conductor- 63A NH00	Set				R0.00	R0.00	R0.00
4.8.3	0309	Three phase trf and LV fuse holder connection - ABC conductor- 80A NH00	Set				R0.00	R0.00	R0.00
4.8.4	0309	Three phase trf and LV fuse holder connection - ABC conductor- 125A NH00	Set				R0.00	R0.00	R0.00
4.8.5	0309	Three phase trf and LV fuse holder connection - ABC conductor- 160A NH00	Set				R0.00	R0.00	R0.00
4.8.6	0309	Dual phase trf and LV fuse holder connection - ABC conductor- 40A NH00	Set				R0.00	R0.00	R0.00
4.8.7	0309	Dual phase trf and LV fuse holder connection - ABC conductor- 63A NH00	Set				R0.00	R0.00	R0.00
4.8.8	0309	Dual phase trf and LV fuse holder connection - ABC conductor- 80A NH00	Set				R0.00	R0.00	R0.00
4.8.9	0309	Dual phase trf and LV fuse holder connection - ABC conductor- 125A NH00	Set				R0.00	R0.00	R0.00
4.8.10	0309	Dual phase trf and LV fuse holder connection - ABC conductor- 160A NH00	Set				R0.00	R0.00	R0.00
4.8.11	0309	Single phase trf and LV fuse holder connection - ABC conductor- 40A NH00	Set				R0.00	R0.00	R0.00
4.8.12	0309	Single phase trf and LV fuse holder connection - ABC conductor- 63A NH00	Set				R0.00	R0.00	R0.00
4.8.13	0309	Single phase trf and LV fuse holder connection - ABC conductor- 80A NH00	Set				R0.00	R0.00	R0.00
4.8.14	0309	Single phase trf and LV fuse holder connection - ABC conductor- 125A NH00	Set				R0.00	R0.00	R0.00
4.8.15	0309	Single phase trf and LV fuse holder connection - ABC conductor- 160A NH00	Set				R0.00	R0.00	R0.00
4.8.16	0309	Three phase trf and LV fuse holder connection - Bare wire conductor- 40A NH00	Set				R0.00	R0.00	R0.00
4.8.17	0309	Three phase trf and LV fuse holder connection - Bare wire conductor- 63A NH00	Set				R0.00	R0.00	R0.00
4.8.18	0309	Three phase trf and LV fuse holder connection - Bare wire conductor- 80A NH00	Set				R0.00	R0.00	R0.00
4.8.19	0309	Three phase trf and LV fuse holder connection - Bare wire conductor- 125A NH00	Set				R0.00	R0.00	R0.00
4.8.20	0309	Three phase trf and LV fuse holder connection - Bare wire conductor- 160A NH00	Set				R0.00	R0.00	R0.00
4.8.21	0309	Dual phase trf and LV fuse holder connection - Bare wire conductor- 40A NH00	Set				R0.00	R0.00	R0.00
4.8.22	0309	Dual phase trf and LV fuse holder connection - Bare wire conductor- 63A NH00	Set				R0.00	R0.00	R0.00
4.8.23	0309	Dual phase trf and LV fuse holder connection - Bare wire conductor- 80A NH00	Set				R0.00	R0.00	R0.00
4.8.24	0309	Dual phase trf and LV fuse holder connection - Bare wire conductor- 125A NH00	Set				R0.00	R0.00	R0.00
4.8.25	0309	Dual phase trf and LV fuse holder connection - Bare wire conductor- 160A NH00	Set				R0.00	R0.00	R0.00
4.8.26	0309	Single phase trf and LV fuse holder connection - Bare wire conductor- 40A NH00	Set				R0.00	R0.00	R0.00
4.8.27	0309	Single phase trf and LV fuse holder connection - Bare wire conductor- 63A NH00	Set				R0.00	R0.00	R0.00
4.8.28	0309	Single phase trf and LV fuse holder connection - Bare wire conductor- 80A NH00	Set				R0.00	R0.00	R0.00
4.8.29	0309	Single phase trf and LV fuse holder connection - Bare wire conductor- 125A NH00	Set				R0.00	R0.00	R0.00
4.8.30	0309	Single phase trf and LV fuse holder connection - Bare wire conductor- 160A NH00	Set				R0.00	R0.00	R0.00
LV POLE MOUNTED SERVICE BOXES	Install pole top connection boxes on a wooden pole complete with pole mounting brackets (including sealing), cable ties, insulated copper tails for connecting to LV ABC or Bare wire, connectors and . Included shall be the stainless steel strapping, buckles and terminations of the tails onto the LV conductor.								
4.9.									
4.9.1	3055	BOX,POLE TOP SPLIT METER 2-WAY 50A	Ea				R0.00	R0.00	R0.00
4.9.2	3055	BOX,POLE TOP SPLIT METER 4-WAY 50A	Ea				R0.00	R0.00	R0.00
4.9.3	3055	BOX,POLE TOP SPLIT METER 4-WAY 120A	Ea				R0.00	R0.00	R0.00
4.9.4	3055	BOX,POLE TOP SPLIT METER 8-WAY 50A	Ea				R0.00	R0.00	R0.00
4.9.5	3055	BOX DISTR:POLE TOP SPLITMETER 2-WAY 60A	Ea				R0.00	R0.00	R0.00
4.9.6	3055	BOX DISTR:POLETOP SPLIT METER 6-WAY 20A	Ea				R0.00	R0.00	R0.00
4.9.7	3055	BOX DISTR:POLETOP SPLIT METER 6-WAY 60A	Ea				R0.00	R0.00	R0.00

LV TESTING	Allowance shall be made for the testing of each LV distributor on accordance with the project specification. Included shall be the provision of test certificates and all documentation as required.								
4.10.									
4.10.1		LV continuity test	Ea				R0.00	R0.00	R0.00
4.10.2		LV phasing test	Ea				R0.00	R0.00	R0.00
MISCELLANEOUS	Allow for the following end items to be applied as per relevant Eskom DDT series, Eskom national or Eskom local technical instructions								
4.11.									
4.11.1		POLE TOP BOX PHASING LABELS	Ea				R0.00	R0.00	R0.00
4.11.2	3049	ALUMINIUM POLE TAG 25x150MM WITH POLE NUMBER	Ea				R0.00	R0.00	R0.00
4.11.3	3089	JOINT,MSPN SET 3x35+35SQ B/N ABC	Ea				R0.00	R0.00	R0.00
4.11.4	3089	JOINT,MSPN SET 3x70+50SQ B/N ABC	Ea				R0.00	R0.00	R0.00
4.11.5	3089	JOINT,MSPN SET 2x35+35SQ B/N ABC	Ea				R0.00	R0.00	R0.00
4.11.6	3089	JOINT,MSPN SET 1x35+35SQ B/N ABC	Ea				R0.00	R0.00	R0.00
4.11.7	3089	JOINT,MSPN SET 3x35+54.6SQ INSNEUT	Ea				R0.00	R0.00	R0.00
4.11.8	3089	JOINT,MSPN SET 3x70+54.6SQ INSNEUT	Ea				R0.00	R0.00	R0.00
4.11.9		JOINT,MSPN SET 3x95+54.6SQ INSNEUT	Ea				R0.00	R0.00	R0.00
4.11.10		JOINT,MSPN SET 3x35+54.6SQ+aux core INSNEUT	Ea				R0.00	R0.00	R0.00
4.11.11		JOINT,MSPN SET 3x70+54.6SQ+aux core INSNEUT	Ea				R0.00	R0.00	R0.00
4.11.12		JOINT,MSPN SET 3x95+54.6SQ+aux core INSNEUT	Ea				R0.00	R0.00	R0.00
4.11.13	0980	LV Bare Wire - MV/LV Bare Wire Staying Technology	Ea				R0.00	R0.00	R0.00
4.11.14	0981	LV Bare Wire - LV Metering 3Phase, 2Phase and 1Phase Connections	Ea				R0.00	R0.00	R0.00
4.11.15	0982	LV Bare Wire - Eye Nut Assembly	Ea				R0.00	R0.00	R0.00
4.11.16	0983	LV Bare Wire - Binding Techniques	Ea				R0.00	R0.00	R0.00
4.11.17	3073	Joint, M/Span Mink/Pine I/C	Ea				R0.00	R0.00	R0.00
4.11.18	3073	Joint, M/Span Fox /35 I/C	Ea				R0.00	R0.00	R0.00
4.11.19	3228	Joint, Full Ten Auto 5.82 TO 8.64mm	Ea				R0.00	R0.00	R0.00
4.11.20	3228	Joint, Full Ten Auto Mink/Pine	Ea				R0.00	R0.00	R0.00
4.11.21		Pegging of LV poles and stays	Ea				R0.00	R0.00	R0.00
		TOTAL CARRIED TO SUMMARY PAGE					R0.00	R0.00	R0.00

BILL NO: 5	MV EQUIPMENT AND SWITCHGEAR				PROJECT TOTALS					
	Note: a)All installations, assemblies and activities shall be as per Eskom DDT series, Eskom national or Eskom local technical instructions where applicable b) Eskom will advise what is free issue material and what is contractor supplied material									
NO.	Eskom D-DT	DESCRIPTION	UNIT	QTY	SUPPLY RATE	LABOUR RATE	SUPPLY TOTAL	LABOUR TOTAL	TOTAL	
MV EQUIPMENT		Install transformer/recloser/voltage regulator/MV metering units. All auxiliary equipment to include station and distribution MV Surge arrestors as applicable, LV surge arrestors, control boxes, metering kiosks, jumper terminations, anti climbing devices , LDPE pipe covered jumpers, danger labels, channel irons, cradles, standoff insulators, conductor busbars, suitable equipment labels and other ancillary equipment as required by the relevant assembly and sub assembly drawings. Poles, stays, xarms, struts, isolators and earthing material and excavations are measured elsewhere.								
5.1		Transformers/reclosers/voltage regulators and MV metering units will be Eskom free issue material. Main line structures and auxiliary equipment are measured elsewhere								
5.1.1	0420	SWER - Single Pole-mounted Isolation Transformer	Ea				R0.00	R0.00	R0.00	
5.1.2	0421	SWER - 4 Pole-mounted Isolation Transformer	Ea				R0.00	R0.00	R0.00	
5.1.3	0460	SWER - Single Pole-mounted Isolation Transformer Substation Auxiliary	Ea				R0.00	R0.00	R0.00	
5.1.4	0461	SWER - H-pole mounted Isolation Transformer Substation Auxiliary	Ea				R0.00	R0.00	R0.00	
5.1.5	0462	SWER-Distribution Transformer (16 or 32kVA)	Ea				R0.00	R0.00	R0.00	
5.1.6	0463	SWER-Back-to-Back 64kVA Dual Phase Supply from a 19kV SWER Line	Ea				R0.00	R0.00	R0.00	
5.1.7	0464	SWER- Single Phase Recloser on a Single Pole	Ea				R0.00	R0.00	R0.00	
5.1.8	0468	SWER-Distribution Transformer (5kVA)	Ea				R0.00	R0.00	R0.00	
5.1.9	1825	Recloser Structure -In-line arrangement	Ea				R0.00	R0.00	R0.00	
5.1.10	DER1825CBL	MV Cable bypass Recloser Structure -Out-of-line arrangement (excluding the main line structures but including the in, out and bypass links on the main line structure)	Ea				R0.00	R0.00	R0.00	
5.1.11	1829B	Eskom KZN Out of line recloser structure (excluding the main line structures but including the in, out and bypass links on the main line structure)	Ea				R0.00	R0.00	R0.00	
5.1.12	1829	Eskom national Out of line recloser structure (excluding the main line structures but including the in, out and bypass links on the main line structure)	Ea				R0.00	R0.00	R0.00	
5.1.13	1832	Single Pole-mounted Capacitor Bank	Ea				R0.00	R0.00	R0.00	
5.1.14	1833B	Eskom KZN Out of line Regulator - 100 / 200A Open Delta (excluding the main line structures but including the in, out and bypass links on the main line	Ea				R0.00	R0.00	R0.00	
5.1.15	1833	Eskom national Out of lineRegulator - 100 / 200A Open Delta (excluding the main line structures but including the in, out and bypass links on the main line	Ea				R0.00	R0.00	R0.00	
5.1.16	1834B	Eskom KZN Out of line Regulator - 100 / 200A Closed Delta (excluding the main line structures but including the in, out and bypass links on the main line	Ea				R0.00	R0.00	R0.00	
5.1.17	1834	Eskom national Out of line Regulator - 100 / 200A Closed Delta (excluding the main line structures but including the in, out and bypass links on the main line	Ea				R0.00	R0.00	R0.00	
A.5.2.1.	1840	MV CT/VT Metering - Bulk terrif - In-line arrangement (Including the meter kiosk, and LV cable, links where applicable)	Ea				R0.00	R0.00	R0.00	
A.5.2.2.	1841	CT/VT Metering - Statistical – In-line arrangement (Including the meter kiosk, and LV cable)	Ea				R0.00	R0.00	R0.00	
A.5.2.3.	1846	CT/VT Metering - Statistical – Out-of-line arrangement((Including the meter kiosk, and LV cable, links where applicable)	Ea				R0.00	R0.00	R0.00	
A.5.2.4.	1860	Transformer - 5-100kVA Single Pole Mounted	Ea				R0.00	R0.00	R0.00	
5.1.22	1861	TRANSFORMER - 100-200kVA / 2-POLE PLATFORM MOUNTED (H-POLE) GENERAL ARRANGEMENT	Ea				R0.00	R0.00	R0.00	
5.1.23	1862	TRANSFORMER 300-500kVA - 5-POLE DOUBLE PLATFORM MOUNTED GENERAL ARRANGEMENT	Ea				R0.00	R0.00	R0.00	
5.1.24	1864	Transformer - 300-500 kVA 2-Pole Platform Mounted (Out-of-Line)	Ea				R0.00	R0.00	R0.00	
5.1.25	1865B	Eskom KZN Transformer - Out- of- Line 100kVA to 200KVA (Excluding the main line structure and including the incoming links)	Ea				R0.00	R0.00	R0.00	
5.1.26	1865	Eskom National Transformer - Out- of- Line 100kVA to 200KVA (Excluding the main line structure and including the incoming links)	Ea				R0.00	R0.00	R0.00	
5.1.27	1866B	Eskom KZN Transformer - Out- of- Line 16kVA to 100kVA (Excluding the main line structure and including the incoming links)	Ea				R0.00	R0.00	R0.00	
5.1.28	1866	Eskom national Transformer - Out- of- Line 16kVA to 100kVA (Excluding the main line structure and including the incoming links)	Ea				R0.00	R0.00	R0.00	
5.1.29	1867	Transformer - Single pole mount 'back-to-back- 2 x 64kVA - General arrangement	Ea				R0.00	R0.00	R0.00	
5.1.30	1868	Transformer - Extended double platform mount - >500kVA - General arrangement	Ea				R0.00	R0.00	R0.00	
5.1.31	1844	Line Arrestors H-pole Configuration	Ea				R0.00	R0.00	R0.00	
5.1.32	1845	Line Arrestors Delta Configuration	Ea				R0.00	R0.00	R0.00	
5.2 MV ISOLATORS		Install MV isolators. Accessories to include: solid inserts or expulsion type fuses, jumper terminations, mounting hardware, LDPE pipe covered jumpers. Disconnectors to be supplied with suitable labels. Crossarms are included.								
5.2.1	0465	SWER - Cut out	Ea				R0.00	R0.00	R0.00	
5.2.2	1847	Section Links - Cut-outs - 3,5m / 4,5m Wood X-arm / H-pole (dual phase)-200A	set				R0.00	R0.00	R0.00	
5.2.3	1847	Section Links - Cut-outs - 3,5m / 4,5m Wood X-arm / H-pole (three phase)-200A	set				R0.00	R0.00	R0.00	
5.2.4	1847	Section Links - Cut-outs - 3,5m / 4,5m Wood X-arm / H-pole (three phase)-630A	set				R0.00	R0.00	R0.00	
5.2.5	1848	Section Links - Cut-outs - 2,5m Wood X-arm / Single Pole (dual phase)-200A	set				R0.00	R0.00	R0.00	
5.2.6	1848	Section Links - Cut-outs - 2,5m Wood X-arm / Single Pole (three phase)- 200A	set				R0.00	R0.00	R0.00	
5.2.7	1848	Section Links - Cut-outs - 2,5m Wood X-arm / Single Pole (three phase)-630A	set				R0.00	R0.00	R0.00	
5.2.8	1852	By-pass Links - Cut-outs - 3,5m / 4,5m Wood X-arm / H-pole-200A	set				R0.00	R0.00	R0.00	
5.2.9	1852	By-pass Links - Cut-outs - 3,5m / 4,5m Wood X-arm / H-pole-630A	set				R0.00	R0.00	R0.00	
5.2.10	1853	Equipment Isolating (in-out) Links - Cut-outs - 2 x 2,5m Wood X-arm / H-pole - 3 ph-200A	set				R0.00	R0.00	R0.00	
5.2.11	1853	Equipment Isolating (in-out) Links - Cut-outs - 2 x 2,5m Wood X-arm / H-pole - 3 ph-630A	set				R0.00	R0.00	R0.00	
5.2.12	1853	Equipment Isolating (in-out) Links - Cut-outs - 2 x 2,5m Wood X-arm / H-pole- ph-ph-200A	set				R0.00	R0.00	R0.00	
5.2.13	1857	Section / By-pass switch - Tri-switch – Single pole- 400A	set				R0.00	R0.00	R0.00	
5.2.14	1857	Section / By-pass switch - Tri-switch – Single pole- 630A	set				R0.00	R0.00	R0.00	
5.2.15	1858	Section / By-pass switch - Tri-switch - H-pole 1800 spacing- 400A	set				R0.00	R0.00	R0.00	
5.2.16	1858	Section / By-pass switch - Tri-switch - H-pole 1800 spacing- 630A	set				R0.00	R0.00	R0.00	

5.3 MV / LV EARTHING		Install equipment earthing. All auxiliary equipment such as earth electrodes, earth connectors and conductor to be included. All excavations are measured elsewhere. The MV and LV earth installation shall be split into two activities, activity one is to connect the earth conductors electrically to the equipment and take the conductor down to the ground and then activity two is to lay the conductor in the trench and install earth electrodes(earth spikes) and connect the earth electrodes to the earthing conductor. A standard 15m length electrode is allowed for and the rate is per meter. If a longer electrode is required to obtain the Eskom required readings then the electrode must be extended.							
5.3.1	0627/0642	Conventional Transformer MV Earth	m				R0.00	R0.00	R0.00
5.3.2	0627/0642	Conventional & SWER Transformer LV earth	m				R0.00	R0.00	R0.00
5.3.3	1825, DER1825CBL, 1829B, 1829	Recloser MV earth	m				R0.00	R0.00	R0.00
5.3.4	1833B/1834B/1833/1834	MV Earth for regulator - 100 / 200A Open/Closed Delta	m				R0.00	R0.00	R0.00
5.3.5	1840/1841/1846	MV Earth for MV CT VT Bulk/Stats metering	m				R0.00	R0.00	R0.00
5.3.6	1832	MV Earth for MV capacitor bank	m				R0.00	R0.00	R0.00
5.3.7	210	MV SWER isolation and distribution transformer main earth rod type electrode assembly - electrode to be specified by designer	m				R0.00	R0.00	R0.00
5.3.8	211	MV SWER isolation and distribution transformer main earth trench type electrode assembly - electrode to be specified by designer	m				R0.00	R0.00	R0.00
5.3.9	212	MV SWER isolation and distribution transformer understrung main earth rod type electrode assembly -electrode to be specified by designer	m				R0.00	R0.00	R0.00
5.3.10	213	MV SWER isolation and distribution transformer understrung earth wire trench type electrode assembly -electrode to be specified by designer	m				R0.00	R0.00	R0.00
5.4 TESTING		Allowance shall be made(where applicable) for the complete testing and commissioning of equipment to applicable Eskom standards.							
5.4.1		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.					R0.00	R0.00	R0.00
5.4.2		MV earth electrode test	Ea				R0.00	R0.00	R0.00
5.4.3		LV earth electrode test	Ea				R0.00	R0.00	R0.00
5.4.4		Voltage regulator commissioning tests	Ea				R0.00	R0.00	R0.00
5.4.5		Recloser commissioning tests	Ea				R0.00	R0.00	R0.00
5.5 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.							
5.5.1	278	SWER Peak current monitoring assembly	Ea				R0.00	R0.00	R0.00
5.5.2	297	Pole mounted drop-out fuse assembly-Swer	Ea				R0.00	R0.00	R0.00
5.5.3	262	Surge arrester assembly (Single phase)	Set of 1				R0.00	R0.00	R0.00
5.5.4	262	Surge arrester assembly (dual phase)	Set of 2				R0.00	R0.00	R0.00
5.5.5	262	Surge arrester assembly (three phase)	Set of 3				R0.00	R0.00	R0.00
5.5.6	266	Double arrester assembly	Set of 6				R0.00	R0.00	R0.00
5.5.7		Installation of conductive cement	m3				R0.00	R0.00	R0.00
5.5.8	290/293	Install link	Ea				R0.00	R0.00	R0.00
		TOTAL CARRIED TO SUMMARY PAGE					R0.00	R0.00	R0.00

BILL NO: 6		HOUSE SERVICE CONNECTIONS			PROJECT TOTALS				
Note: a)All installations, assemblies and activities shall be as per Eskom DDT series, Eskom national or Eskom local technical instructions where applicable b) Eskom will advise what is free issue material and what is contractor supplied material									
NO.	D-D-T	DESCRIPTION	UNIT	QTY					
DIRECT & INDIRECT CONNECTIONS		Install House Connections (Type A & Type B). Accessories include house labels, pigtail bolts, strain clamps, cable saddles, passive base/ready board mounting hardware, threaded rods. Meters, Customer interface units, ready boards, service cable, poles and excavations are measured elsewhere.							
6.1									
6.1.1	0360	LV service connection direct to dwelling (from the pole top box to the pre-paid meter) (Type A) to brick dwelling	Ea				R0.00	R0.00	R0.00
6.1.2	0360	LV service connection to house from cable	Ea				R0.00	R0.00	R0.00
6.1.3	0361	LV service connection with service pole (from the pole top box to the pre-paid meter) (Type B) to mud dwelling	Ea				R0.00	R0.00	R0.00
6.1.4	0366	Service suspension assembly	Ea				R0.00	R0.00	R0.00
6.1.5	0384	Service strain assembly	Ea				R0.00	R0.00	R0.00
METERS, BASES AND DATA CONCENTRATOR		Install meters, customer interface units, bases and data concentrators. Accessories include mounting hardware. Allow for suitable sealing and testing of meters for COC and OHS Act and Eskom requirments. Eskom meters and CUI's are free issue.							
6.2									
6.2.1	3145	METER,STD ED KEYPAD 60A	Ea				R0.00	R0.00	R0.00
6.2.2	3145	METER,STD ECU KEYPAD 20A	Ea				R0.00	R0.00	R0.00
6.2.3	3145	METER,SPLIT PREPAY 3P KEYPAD 40A PLC/ RF	Ea				R0.00	R0.00	R0.00
6.2.4	3145	METER,SPLIT BS FOOTPRINT 60A PLC	Ea				R0.00	R0.00	R0.00
6.2.5	3145	METER, SPLIT DIN RAIL 60A PLC	Ea				R0.00	R0.00	R0.00
6.2.6	3145	METER, SPLIT BS FOOTPRINT 60A RF	Ea				R0.00	R0.00	R0.00
6.2.7	3145	METER, SPLIT DIN RAIL 60A RF	Ea				R0.00	R0.00	R0.00
6.2.8	3145	METER, SPLIT BS FOOTPRINT 20A PLC	Ea				R0.00	R0.00	R0.00
6.2.9	3145	METER, SPLIT DIN RAIL 20A PLC	Ea				R0.00	R0.00	R0.00
6.2.10	3145	METER, SPLIT BS FOOTPRINT 20A RF	Ea				R0.00	R0.00	R0.00
A.5.2.1.	3145	METER, SPLIT METER DIN RAIL 20A RF	Ea				R0.00	R0.00	R0.00
A.5.2.2.	3176	READYBOARD,SPLIT METER 2x16A SKTS D3176	Ea				R0.00	R0.00	R0.00
A.5.2.3.	3171	PASSIVE BASE UNIT,ED D3171	Ea				R0.00	R0.00	R0.00
A.5.2.4.	3171	PASSIVE BASE UNIT,ECU D3171	Ea				R0.00	R0.00	R0.00
6.2.15	3171	PASSIVE BASE UNIT,ECU WITH RAIL D3171	Ea				R0.00	R0.00	R0.00
6.2.16	3171	COVER,ACCESS:PROTECTIVE ;IVORY B77	Ea				R0.00	R0.00	R0.00
6.2.17	9421	DIN RAIL SINGLE PHASE PLC SMART SPLIT METER WITH CIU 60A	Ea				R0.00	R0.00	R0.00
6.2.18		DIN RAIL SINGLE PHASE PLC SMART SPLIT METER WITH CIU 20A	Ea				R0.00	R0.00	R0.00
6.2.19		BS FOOTPRINT SINGLE PHASE SMART SPLIT METER WITH CIU + INTERNAL/PLUG-IN GSM MODEM	Ea				R0.00	R0.00	R0.00
6.2.20		BS FOOTPRINT SINGLE PHASE SMART SPLIT METER WITH CIU + EXTERNAL GSM MODEM	Ea				R0.00	R0.00	R0.00
6.2.21		BS FOOTPRINT THREE PHASE SMART PLC SPLIT METER WITH CIU	Ea				R0.00	R0.00	R0.00
6.2.22		BS FOOTPRINT THREE PHASE SMART SPLIT METER WITH CIU + EXTERNAL GSM MODEM	Ea				R0.00	R0.00	R0.00
6.2.23	1878/0639	GATEWAY/DATA CONCENTRATORS (DCU) + INTERNAL/PLUG-IN GSM MODEM	Ea				R0.00	R0.00	R0.00
6.2.24	1878/0639	GATEWAY/DATA CONCENTRATORS (DCU) + EXTERNAL GSM MODEM	Ea				R0.00	R0.00	R0.00
6.2.25	3145	CUSTOMER INTERFACE UNIT(CIU) WS	Ea				R0.00	R0.00	R0.00
6.2.26	3145	CUSTOMER INTERFACE UNIT(CIU) PLC	Ea				R0.00	R0.00	R0.00
6.2.27	3145	CUSTOMER INTERFACE UNIT(CIU) RF	Ea				R0.00	R0.00	R0.00
SERVICE CABLE		Install conductor. Material quantity to allow for 5% sag in addition to actual conductor length quantity. Installation includes handling, stringing and final sagging. The quantity shall be conductor length.							
6.3									
6.3.1	3140	CABLE 1kV 2C 10SQ CU CONC	m					R0.00	R0.00
6.3.2	3140	CABLE ELECT:1000 V; TCU GSW;10 MM2	m					R0.00	R0.00
6.3.3	3140	CABLE,ELECT:1000 V ;TCU GSW;6 MM2	m					R0.00	R0.00
CUSTOMER DATA COLLECTION		Capturing and handing over of customer data and updated PCS file							
6.4									
6.4.1		Customer data capturing of coordinates, customer application form and safety form and to be presented to the Project Manager in the required PCS file format.	Ea					R0.00	R0.00
Testing									
6.5		Test							
6.5.1		Smart Split meter or split meter communication test						R0.00	R0.00
		TOTAL CARRIED TO SUMMARY PAGE					R0.00	R0.00	R0.00

BILL NO: 7	LV UNDERGROUND CABLE WORK, TRENCHING & INSTALLATION				PROJECT TOTALS				
	Note: a)All installations, assemblies and activities shall be as per Eskom DDT series, Eskom national or Eskom local technical instructions where applicable b) Eskom will advise what is free issue material and what is contractor supplied material								
NO.	D-D-T	DESCRIPTION	UNIT	QTY	SUPPLY RATE	LABOUR RATE	SUPPLY TOTAL	LABOUR TOTAL	TOTAL
		LV CABLE							
		Take delivery of and safely store LV cables on site. Install LV cable in trench. Excavations, joints and terminations are measured elsewhere. Cable rollers are required to pull cable into and in trench. This activity is only for the laying of the cable into the trench and postioning the cable in the trench.							
7.1									
7.1.1		CABLE ELECT:1 KV;2C;CU;16 MM2;	m					R0.00	R0.00
7.1.2		CABLE ELECT:1 KV;2C;CU;25 MM2;	m					R0.00	R0.00
7.1.3		CABLE ELECT:1 KV;2C;CU;35 MM2;	m					R0.00	R0.00
7.1.4		CABLE ELECT:1 KV;3C;CU;16 MM2;	m					R0.00	R0.00
7.1.5		CABLE ELECT:1 KV;3C;CU;25 MM2;	m					R0.00	R0.00
7.1.6		CABLE ELECT:1 KV;3C;CU;35 MM2;	m					R0.00	R0.00
7.1.7		CABLE ELECT:1 KV;3C;CU;70 MM2;	m					R0.00	R0.00
7.1.8		CABLE ELECT:1 KV;4C;CU;16 MM2;	m					R0.00	R0.00
7.1.9		CABLE ELECT:1 KV;4C;CU;25 MM2;	m					R0.00	R0.00
7.1.10		CABLE ELECT:1 KV;4C;CU;35 MM2;	m					R0.00	R0.00
7.1.11		CABLE ELECT:1 KV;4C;CU;50 MM2;	m					R0.00	R0.00
7.1.12		CABLE ELECT:1 KV;4C;CU;70 MM2;	m					R0.00	R0.00
7.1.13		CABLE ELECT 1,0KV 4C;CU;95 MM2	m					R0.00	R0.00
7.1.14		CABLE ELECT:1 KV;4C;CU;120 MM2;	m					R0.00	R0.00
7.1.15		CABLE ELECT:1 KV;4C;CU;150 MM2;	m					R0.00	R0.00
A.5.2.1.		CABLE ELECT:1 KV;4C;CU;185 MM2;	m					R0.00	R0.00
A.5.2.2.		CABLE ELECT:1 KV;4C;CU;240 MM2;	m					R0.00	R0.00
A.5.2.3.		CABLE,ELECT:1,0 KV;PVC;35 MM2;4C;AL	m					R0.00	R0.00
A.5.2.4.		CABLE,ELECT:1,0 KV;PVC;50 MM2;4C;AL	m					R0.00	R0.00
7.1.20		CABLE,ELECT:1,0 KV;PVC;70 MM2;4C;AL	m					R0.00	R0.00
7.1.21		CABLE,ELECT:1,0 KV;PVC;95 MM2;4C;AL	m					R0.00	R0.00
7.1.22		CABLE,ELECT:1,0 KV;PVC;120 MM2;4C;AL	m					R0.00	R0.00
7.1.23		CABLE,ELECT:1,0 KV;PVC;150 MM2;4C;AL	m					R0.00	R0.00
7.1.24		CABLE,ELECT:1,0 KV;PVC;185 MM2;4C;AL	m					R0.00	R0.00
7.1.25		CABLE,ELECT:1,0 KV;PVC;240 MM2;4C;AL	m					R0.00	R0.00
7.1.26		CABLE ELECT:1 KV;1C;CU;240 MM2;	m					R0.00	R0.00
7.1.27		CABLE ELECT:1 KV;1C;CU;500 MM2;	m					R0.00	R0.00
7.2		LV Metering kiosks and Data concentrator installations							
		Allow for the complete installation of ground and pole mounted metering kiosks . If an empty kiosk or kiosk without meters is installed then allowance for installation and wiring of components have been made. LV cable terminations with glands is measured elsewhere.							
7.2.1	DDT 3214	KIOSK,DIST. 12 WAY HIGH RISK D3214 -GROUND MOUNT	Ea				R0.00	R0.00	R0.00
7.2.2	DDT 3214	KIOSK,DIST. LOAD MNGMNT.16 WAY D3214 -GROUND MOUNT	Ea				R0.00	R0.00	R0.00
7.2.3	DDT 3214	KIOSK,DIST. LOAD MNGMNT.24 WAY D3214- GROUND MOUNT	Ea				R0.00	R0.00	R0.00
7.2.4	DDT 3236	KIOSK METER:1PH ;16 KVA ;EMPTY-POLE MOUNT	Ea				R0.00	R0.00	R0.00
7.2.5	DDT 3236	KIOSK METER:1PH;16 KVA;SPU-POLE MOUNT	Ea				R0.00	R0.00	R0.00
7.2.6	DDT 3236	KSK MTR:1PH.16 KVA,SPU NO METER	Ea				R0.00	R0.00	R0.00
7.2.7	DDT 3236	KIOSK METER:3PH;25 KVA;EMPTY-POLE MOUNT	Ea				R0.00	R0.00	R0.00
7.2.8	DDT 3236	KIOSK METER:3PH;25 KVA;EMPTY-GROUND MOUNT	Ea				R0.00	R0.00	R0.00
7.2.9	DDT 3236	KIOSK METER:3PH ;25 KVA ;SPU-POLE MOUNT	Ea				R0.00	R0.00	R0.00
7.2.10	DDT 3236	KIOSK METER:3PH ;25 KVA ;SPU-GROUND MOUNT	Ea				R0.00	R0.00	R0.00
7.2.11	DDT 3236	KIOSK METER:3PH ;50 KVA ;SPU-POLE MOUNT	Ea				R0.00	R0.00	R0.00
7.2.12	DDT 3236	KIOSK METER:3PH ;50 KVA ;SPU-GROUND MOUNT	Ea				R0.00	R0.00	R0.00
7.2.13	DDT 3236	KIOSK METER:3PH ;25 KVA ;RURAFLEX-POLE MOIUNT	Ea				R0.00	R0.00	R0.00
7.2.14	DDT 3236	KIOSK METER:3PH ;25 KVA ;RURAFLEX-GROUND MOIUNT	Ea				R0.00	R0.00	R0.00
7.2.15	DDT 3236	KIOSK METER:3PH ;50 KVA ;RURAFLEX-POLE MOIUNT	Ea				R0.00	R0.00	R0.00
7.2.16	DDT 3236	KIOSK METER:3PH ;50KVA ;RURAFLEX-GROUND MOIUNT	Ea				R0.00	R0.00	R0.00
7.2.17	DDT 3236	KSK MTR:3PH.25 KVA,SPU NO METER-POLE MOUNT	Ea				R0.00	R0.00	R0.00
7.2.18	DDT 3236	KSK MTR:3PH.25 KVA,SPU NO METER-GROUND MOUNT	Ea				R0.00	R0.00	R0.00
7.2.19	DDT 3236	KSK MTR:3PH.50 KVA,SPU NO METER-POLE MOUNT	Ea				R0.00	R0.00	R0.00
7.2.20	DDT 3236	KSK MTR:3PH.50 KVA,SPU NO METER-GROUND MOUNT	Ea				R0.00	R0.00	R0.00
7.2.21	DDT 3236	KSK MTR:3PH.50 KVA,SPU DC & METER-POLE MOUNT	Ea				R0.00	R0.00	R0.00
7.2.22	DDT 3236	KSK MTR:3PH.100 KVA,SPU DC & METER	Ea				R0.00	R0.00	R0.00
7.2.23	DDT 3236	KIOSK METER:3PH ;100 KVA ;SPU-POLE MOUNT	Ea				R0.00	R0.00	R0.00
7.2.24	DDT 3236	KIOSK METER:3PH ;100 KVA ;SPU-GROUND MOUNT	Ea				R0.00	R0.00	R0.00
7.2.25	DDT 3236	KIOSK METER:3PH;100 KVA;EMPTY-POLE MOUNT	Ea				R0.00	R0.00	R0.00
7.2.26	DDT 3236	KIOSK METER:3PH;100 KVA;EMPTY-GROUND MOUNT	Ea				R0.00	R0.00	R0.00
7.2.27	DDT 3236	KSK MTR:3PH.100 KVA,SPU NO METER-POLE MOUNT	Ea				R0.00	R0.00	R0.00
7.2.28	DDT 3236	KSK MTR:3PH.100 KVA,SPU NO METER-GROUND MOUNT	Ea				R0.00	R0.00	R0.00
7.2.29	DDT 3236	KIOSK METER:1PH ;16 KVA ;2 WAY ; BS METERS-GROUND MOUNT	Ea				R0.00	R0.00	R0.00
7.2.30	DDT 3236	KIOSK METER:1PH ;16 KVA ;3 WAY ; BS METERS-GROUND MOUNT	Ea				R0.00	R0.00	R0.00
7.2.31	DDT 3236	KIOSK METER:1PH ;16 KVA ;4 WAY ; BS METERS-GROUND MOUNT	Ea				R0.00	R0.00	R0.00
7.2.32	DDT 3236	KIOSK METER:1PH ;16 KVA ;6 WAY ; BS METERS-GROUND MOUNT	Ea				R0.00	R0.00	R0.00
7.2.33	DDT 3236	KIOSK METER:1PH ;16 KVA ;15 WAY-GROUND MOUNT	Ea				R0.00	R0.00	R0.00
7.2.34	DDT 3236	KIOSK METER:1PH ;2 WAY ;EMPTY ; BS METERS-GROUND MOUNT	Ea				R0.00	R0.00	R0.00
7.2.35	DDT 3236	KIOSK METER:1PH ;4 WAY ;EMPTY ; BS METERS-GROUND MOUNT	Ea				R0.00	R0.00	R0.00
7.2.36	DDT 3236	KIOSK METER:1PH ;6 WAY ;EMPTY ; BS METERS-GROUND MOUNT	Ea				R0.00	R0.00	R0.00
7.2.37	DDT 3236	KSK MTR:1PH.16 KVA,2 WAY NO BS METERS-GROUND MOUNT	Ea				R0.00	R0.00	R0.00
7.2.38	DDT 3236	KSK MTR:1PH.16 KVA,3 WAY NO BS METERS-GROUND MOUNT	Ea				R0.00	R0.00	R0.00
7.2.39	DDT 3236	KSK MTR:1PH.16 KVA,4 WAY NO BS METERS-GROUND MOUNT	Ea				R0.00	R0.00	R0.00
7.2.40	DDT 3236	KSK MTR:1PH.16 KVA,6 WAY NO BS METERS-GROUND MOUNT	Ea				R0.00	R0.00	R0.00
7.2.41	DDT 3236	KSK MTR:1PH,16 KVA,15 WAY NO BS METERS-GROUND METERS	Ea				R0.00	R0.00	R0.00

7.2.42	DDT 3236	KIOSK METER:3PH ;25 KVA ;2 WAY- FULLY WIRED - GROUND MOUNT	Ea				R0.00	R0.00	R0.00
7.2.43	DDT 3236	KIOSK METER:3PH ;50 KVA ;2 WAY- FULLY WIRED - GROUND MOUNT	Ea				R0.00	R0.00	R0.00
7.2.44	DDT 3236	KIOSK METER:3PH ;2 WAY ;EMPTY-GROUND MOUNT	Ea				R0.00	R0.00	R0.00
7.2.45	DDT 3236	KIOSK METER:3PH ;25 KVA ;4 WAY-GROUND MOUNT	Ea				R0.00	R0.00	R0.00
7.2.46	DDT 3236	KIOSK METER:3PH ;50 KVA ;4 WAY-GROUND MOUNT	Ea				R0.00	R0.00	R0.00
7.2.47	DDT 3236	KIOSK METER:3PH ;4 WAY ;EMPTY-GROUND MOUNT	Ea				R0.00	R0.00	R0.00
7.2.48	DDT 3236	KSK MTR:3PH;25 KVA;2 WAY NO BS METERS-GROUND MOUNT	Ea				R0.00	R0.00	R0.00
7.2.49	DDT 3236	KSK MTR:3PH;50 KVA;2 WAY NO BS METERS-GROUND MOUNT	Ea				R0.00	R0.00	R0.00
7.2.50	DDT 3236	KSK MTR:3PH;25 KVA;4 WAY NO BS METERS-GROUND MOUNT	Ea				R0.00	R0.00	R0.00
7.2.51	DDT 3236	KSK MTR:3PH;50 KVA;4 WAY NO BS METERS-GROUND MOUNT	Ea				R0.00	R0.00	R0.00
7.2.52	DDT 3236	KIOSK METER:3PH ;200 KVA ;EMPTY POLE MOUNT	Ea				R0.00	R0.00	R0.00
7.2.53	DDT 3236	KIOSK METER:3PH ;100 KVA ;LPU -POLE MOUNT	Ea				R0.00	R0.00	R0.00
7.2.54	DDT 3236	KIOSK METER:3PH ;200 KVA ;LPU POLE MOUNT	Ea				R0.00	R0.00	R0.00
7.2.55	DDT 3236	KIOSK METER:3PH ;315 KVA ;LPU POLE MOUNT	Ea				R0.00	R0.00	R0.00
7.2.56	DDT 3236	KIOSK METER:3PH ;500 KVA ;LPU POLE MOUNT	Ea				R0.00	R0.00	R0.00
7.2.57	DDT 3236	KIOSK METER:3PH ;CT/VT-POLE MOUNT	Ea				R0.00	R0.00	R0.00
7.2.58	DDT 3236	KIOSK METER:3PH ;CT/VT-GROUND MOUNT	Ea				R0.00	R0.00	R0.00
7.2.59	DDT 3236	KIOSK METER:3PH ;800 KVA ;GROUND MOUNT	Ea				R0.00	R0.00	R0.00
7.2.60	DDT 3236	KIOSK METER:3PH ;1000 KVA ;GROUND MOUNT	Ea				R0.00	R0.00	R0.00
7.2.61	DDT 3236	KIOSK METER:3PH ;100 KVA ;GROUND MOUNT	Ea				R0.00	R0.00	R0.00
7.2.62	DDT 3236	KIOSK METER:3PH ;200 KVA ;GROUND MOUNT	Ea				R0.00	R0.00	R0.00
7.2.63	DDT 3236	KIOSK METER:3PH ;315 KVA ;GROUND MOUNT	Ea				R0.00	R0.00	R0.00
7.2.64	DDT 3236	KIOSK METER:3PH ;500 KVA ;GROUND MOUNT	Ea				R0.00	R0.00	R0.00
7.2.65	DDT 3236	KSK MTR:3PH;50 KVA;2 WAY SECURE GRND MNT	Ea				R0.00	R0.00	R0.00
7.2.66	DDT 3236	KSK MTR:3PH;50 KVA;4 WAY SECURE GRND MNT	Ea				R0.00	R0.00	R0.00
7.2.67	1013	DATA CONCENTRATOR INSTALLATION IN MINISUB	Ea				R0.00	R0.00	R0.00
7.2.68	1047/1048	DATA CONCENTRATOR INSTALLATION FOR MINISUB WITH KIOSK NEXT TO MINISUB	Ea				R0.00	R0.00	R0.00
7.2.69	1034	DATA CONCENTRATOR INSTALLATION FOR MINISUB WITH KIOSK NEXT TO MINISUB ON A POLE	Ea				R0.00	R0.00	R0.00
7.3		Install Outdoor LV Cable Terminations							
		Install Cable Termination onto LV structure with ABC, openwire or trf. Perform the necessary connections as required. This activity does not include performing the cable termination, that is measured elsewhere.							
7.3.1	831	Single phase LV cable termination and connection onto LV ABC- unfused	Ea				R0.00	R0.00	R0.00
7.3.2	831	Dual phase LV cable termination and connection onto LV ABC- unfused	Ea				R0.00	R0.00	R0.00
7.3.3	831	Three phase LV cable termination and connection onto LV ABC- unfused	Ea				R0.00	R0.00	R0.00
7.3.4	832	Single phase LV cable termination and connection onto LV Bare wire- unfused	Ea				R0.00	R0.00	R0.00
7.3.5	832	Dual phase LV cable termination and connection onto LV Bare wire- unfused	Ea				R0.00	R0.00	R0.00
7.3.6	832	Three phase LV cable termination and connection onto LV Bare wire- unfused	Ea				R0.00	R0.00	R0.00
7.3.7	833	Single phase LV cable termination onto transformer- unfused	Ea				R0.00	R0.00	R0.00
7.3.8	833	Dual phase LV cable termination onto transformer- unfused	Ea				R0.00	R0.00	R0.00
7.3.9	833	Three phase LV cable termination onto transformer- unfused	Ea				R0.00	R0.00	R0.00
7.3.10	834	Single phase LV cable termination onto LV ABC- fused,	Ea				R0.00	R0.00	R0.00
7.3.11	834	Dual phase LV cable termination onto LV ABC- fused,	Ea				R0.00	R0.00	R0.00
7.3.12	834	Three phase LV cable termination onto LV ABC- fused,	Ea				R0.00	R0.00	R0.00
7.3.13	836	Single phase LV cable termination onto transformer-fused,	Ea				R0.00	R0.00	R0.00
7.3.14	836	Dual phase LV cable termination onto transformer-fused,	Ea				R0.00	R0.00	R0.00
7.3.15	836	Three phase LV cable termination onto transformer-fused,	Ea				R0.00	R0.00	R0.00
7.4		Perform outdoor termination on cable							
		Supply and Complete an outdoor termination on the LV cable. This is only performing the termination by a cable joiner. LV terminations less than 70mmsq shall use phase cover tubes as per Eskom DDT 3138 and a cable end from DDT 3148. Three phase Cables 70mmsq and larger shall use LV OD term kits as per Eskom 3147							
		Terminations less than 70mmsq							
7.4.1	3138/3148	TUBING SET 16-25 SQ 2C LV CABLE D3138 AND CABLE END	Ea				R0.00	R0.00	R0.00
7.4.2	3138/3148	TUBING SET 16-25 SQ 3C LV CABLE D3138 AND CABLE END	Ea				R0.00	R0.00	R0.00
7.4.3	3138/3148	TUBING SET 16-25 SQ 4C LV CABLE D3138 AND CABLE END	Ea				R0.00	R0.00	R0.00
7.4.4	3138/3148	TUBING SET 35-50 SQ 2C LV CABLE D3138 AND CABLE END	Ea				R0.00	R0.00	R0.00
7.4.5	3138/3148	TUBING SET 35-50 SQ 3C LV CABLE D3138 AND CABLE END	Ea				R0.00	R0.00	R0.00
7.4.6	3138/3148	TUBING SET 35-50 SQ 4C LV CABLE D3138 AND CABLE END	Ea				R0.00	R0.00	R0.00
7.4.7	3138/3148	TUBING SET 70-95 SQ 3C LV CABLE D3138 AND CABLE END	Ea				R0.00	R0.00	R0.00
		Terminations less than 70mmsq							
7.4.8	3147	TERM KIT 4CORE 1KV 70-95 SQ OD HSH D3147	Ea				R0.00	R0.00	R0.00
7.4.9	3147	TERM KIT 4CCORE 1KV 120-150 SQ OD HSH D3147	Ea				R0.00	R0.00	R0.00
7.4.10	3147	TERM KIT 4CORE 1KV 185-240 SQ OD HSH D3147	Ea				R0.00	R0.00	R0.00
7.5		Perform indoor termination on cable							
		Perform LV cable terminations and install into ground mounted kiosks and m/subs. LV cables shall be terminated using mechanical glands & cable gland reducers where necessary. The rate includes performing the termination on the cable, mounting it to the equipment. Allow for backfilling of trench, screeding.							
7.5.1		16 mmsq 2-core - gland size = No.2	Ea				R0.00	R0.00	R0.00
7.5.2		16 or 25 mmsq 4-core, 3 core 25mmsq , 2 core 35mmsq 4 core 35mmsq -gland size = No.3	Ea				R0.00	R0.00	R0.00
7.5.3		70 mmsq 3-core -gland size = No.4	Ea				R0.00	R0.00	R0.00
7.5.4		70 mmsq 4-core -gland size = No.5	Ea				R0.00	R0.00	R0.00
7.5.5		70mmsq 4 core - gland =No.5 gland reducer =M63-M50	Ea				R0.00	R0.00	R0.00
7.5.6		120mmsq 4 core- gland =No.5 gland reducer =M63-M50	Ea				R0.00	R0.00	R0.00
7.5.7		150mmsq 4 core - gland =No.6	Ea				R0.00	R0.00	R0.00
7.5.8		185mmsq 4 core - gland =No.6	Ea				R0.00	R0.00	R0.00
7.5.9		240 mmsq 4 core - gland No 7	Ea				R0.00	R0.00	R0.00

7.6		LV Earthing						
		Install equipment earthing. All auxiliary equipment such as earth electrodes, earth connectors and conductor to be included. All excavations are measured elsewhere. The MV and LV earth installation shall be split into two activities, activity one is to connect the earth conductors electrically to the equipment and take the conductor down to the ground and then activity two is to lay the conductor in the trench and install earth electrodes(earth spikes) and connect the earth electrodes to the earthing conductor.						
7.6.1		LV earth	m				R0.00	R0.00 R0.00
7.7		LV Joints						
		Install resin cast and or heatshrink LV joint kits for jointing of all LV cables as per Eskom DDT Standards. Joint bay excavation, backfilling and compaction should be costed separate as excavations.						
7.7.1	8014	JOINT KIT,2 CORE 600/1000V 16 SQ D8014- RESIN CAST	Ea				R0.00	R0.00 R0.00
7.7.2	8014	JOINT KIT,2 CORE 600/1000V 25 SQ D8014- RESIN CAST	Ea				R0.00	R0.00 R0.00
7.7.3	8014	JOINT KIT,2 CORE 600/1000V 35 SQ D8014- RESIN CAST	Ea				R0.00	R0.00 R0.00
7.7.4	8014	JOINT KIT,3 CORE 600/1000V 16 SQ D8014- RESIN CAST	Ea				R0.00	R0.00 R0.00
7.7.5	8014	JOINT KIT,3 CORE 600/1000V 25 SQ D8014- RESIN CAST	Ea				R0.00	R0.00 R0.00
7.7.6	8014	JOINT KIT,3 CORE 600/1000V 35 SQ D8014- RESIN CAST	Ea				R0.00	R0.00 R0.00
7.7.7	8014	JOINT KIT, 4 CORE 600/1000V 35SQ D8014- RESIN CAST	Ea				R0.00	R0.00 R0.00
7.7.8	8014	JOINT KIT,4 CORE 600/1000V 50 SQ D8014- RESIN CAST	Ea				R0.00	R0.00 R0.00
7.7.9	8014	JOINT KIT,3 CORE 600/1000V 70 SQ D8014- RESIN CAST	Ea				R0.00	R0.00 R0.00
7.7.10	8014	JOINT KIT,4 CORE 600/1000V 70 SQ D8014- RESIN CAST	Ea				R0.00	R0.00 R0.00
7.7.11	8014	JOINT KIT, 4 CORE 600/1000V 95 SQ D8014- RESIN CAST	Ea				R0.00	R0.00 R0.00
7.7.12	8014	JOINT KIT, 4 CORE 600/1000V 120 SQ D8014- RESIN CAST	Ea				R0.00	R0.00 R0.00
7.7.13	8014	JOINT KIT, 4 CORE 600/1000V 150 SQ D8014- RESIN CAST	Ea				R0.00	R0.00 R0.00
7.7.14	8014	JOINT KIT, 4 CORE 600/1000V 185 SQ D8014- RESIN CAST	Ea				R0.00	R0.00 R0.00
7.7.15	8014	JOINT KIT, 4 CORE 600/1000V 240 SQ D8014- RESIN CAST	Ea				R0.00	R0.00 R0.00
7.7.16	8031	KIT CABLE JOINT:1C;1000 V;500 MM2; PVC- HEATSHRINK	Ea				R0.00	R0.00 R0.00
7.7.17	8031	KIT CABLE JOINT:1C;1000 V;120-240 MM2- HEATSHRINK	Ea				R0.00	R0.00 R0.00
7.7.18	8031	KIT CABLE JOINT:2C;1000 V;16 MM2; PVC-HEATSHRINK	Ea				R0.00	R0.00 R0.00
7.7.19	8031	KIT CABLE JOINT:2C;1000 V;25 MM2; PVC-HEATSHRINK	Ea				R0.00	R0.00 R0.00
7.7.20	8031	KIT CABLE JOINT:2C;1000 V;35 MM2; PVC-HEATSHRINK	Ea				R0.00	R0.00 R0.00
7.7.21	8031	KIT CABLE JOINT:4C;1000 V;50 MM2- HEATSHRINK	Ea				R0.00	R0.00 R0.00
7.7.22	8031	KIT CABLE JOINT:4C;1000 V;150 MM2- HEATSHRINK	Ea				R0.00	R0.00 R0.00
7.7.23	8031	KIT CABLE JOINT:4C;1000 V;16 MM2; PVC-HEATSHRINK	Ea				R0.00	R0.00 R0.00
7.7.24	8031	KIT CABLE JOINT:4C;1000 V; 25 MM2; PVC-HEATSHRINK	Ea				R0.00	R0.00 R0.00
7.7.25	8031	KIT CABLE JOINT:4C;1000 V; 35 MM2; PVC-HEATSHRINK	Ea				R0.00	R0.00 R0.00
7.7.26	8031	KIT CABLE JOINT:4C;1000 V;70 MM2; PVC-HEATSHRINK	Ea				R0.00	R0.00 R0.00
7.7.27	8031	KIT CABLE JOINT:3C;1000 V;16 MM2; PVC-HEATSHRINK	Ea				R0.00	R0.00 R0.00
7.7.28	8031	KIT CABLE JOINT:3C;1000 V;25 MM2; PVC-HEATSHRINK	Ea				R0.00	R0.00 R0.00
7.7.29	8031	KIT CABLE JOINT:3C;1000 V;35 MM2; PVC-HEATSHRINK	Ea				R0.00	R0.00 R0.00
7.7.30	8031	KIT CABLE JOINT:3C;1000 V;70 MM2; PVC-HEATSHRINK	Ea				R0.00	R0.00 R0.00
7.8		LV Cable Trenching						
		Excavate LV cable Trenches, backfilling and compacting. Any damage to existing services shall be made good by the Contractor at his own expense and to the approval of the appointed Project Manager or Project Co-ordinator. Soil types are defined as Class1, class 2, class3 and class 4 as per Eskom standard 240-75883148.						
7.8.1	0854	Class 1 - non road crossing	m					R0.00 R0.00
7.8.2	0854	Class 2- non road crossing	m					R0.00 R0.00
7.8.3	0854	Class 3 - non road crossing	m					R0.00 R0.00
7.8.4	0854	Class 4 - non road crossing	m					R0.00 R0.00
7.8.5	0854	Class 1 - rail/ road crossing	m					R0.00 R0.00
7.8.6	0854	Class 2- rail/road crossing	m					R0.00 R0.00
7.8.7	0854	Class 3 - rail/ road crossing	m					R0.00 R0.00
7.8.8	0854	Class 4 - rail/ road crossing	m					R0.00 R0.00
7.9		Equipment Labelling :Supply where required and install equipment labels on LV kiosks and LV cable according to Eskom KZN OU labelling standard KZN16SGS017						
7.9.1		Labels in LV compartment at fuses	Ea				R0.00	R0.00 R0.00
7.9.2		Labels on LV cable ends and joints	Ea				R0.00	R0.00 R0.00
7.9.3		Kiosk labels	Ea				R0.00	R0.00 R0.00
7.10		LV Fuses						
		Supply and install LV fuses, vertical fuse pillars for LV fuse configured m/subs as follows and LV MCCB's for LV breaker configured minisubs						
7.10.1	3181	Fuse, 200A 500V 120kA Size NH 2	Ea				R0.00	R0.00 R0.00
7.10.2	3181	Fuse, 250A 500V 120kA Size NH 2	Ea				R0.00	R0.00 R0.00
7.10.3	3181	Fuse, 315A 500V 120kA Size NH 2	Ea				R0.00	R0.00 R0.00
7.10.4	3181	Fuse, 355A 500V 120kA Size NH 2	Ea				R0.00	R0.00 R0.00
7.10.5	3409	LV cable vertical fuse pillar	Ea				R0.00	R0.00 R0.00
7.10.6	3034	CB 225A 400V 20kA 3P J25S/EQUIV. D3034	Ea				R0.00	R0.00 R0.00
7.10.7	3034	CB 300A 400V 20kA 3P L20B/EQUIV. D3034	Ea				R0.00	R0.00 R0.00
7.10.8	3034	CB 350A 400V 20kA 3P L20B/EQUIV. D3034	Ea				R0.00	R0.00 R0.00
LV Testing		Allow for the complete testing and commissioning of the LV underground system, feeder continuity tests, phasing, etc. Included are test certificates and all documentation required to hand-over the system.						
7.11								
7.11.1		LV feeder cables shall be subjected to a 3 kV d.c. (or 2 kV rms a.c.) test voltage in accordance with table C-2 of SANS 1507-1.	Ea				R0.00	R0.00 R0.00
7.11.2		Phase rotation test	Ea				R0.00	R0.00 R0.00
7.11.3		Continuity test	Ea				R0.00	R0.00 R0.00
7.11.4		Insulation resistance (between neutral and live conductor);	Ea				R0.00	R0.00 R0.00
7.11.5		LV phasing test	Ea				R0.00	R0.00 R0.00
7.11.6		Voltage available at the load.	Ea				R0.00	R0.00 R0.00
7.11.7		LV earth electrode test	Ea				R0.00	R0.00 R0.00

MISCELLANEOUS		Allow for the following end items to be applied.							
7.12									
7.12.1		Installation of waterproofing and sealant	m				R0.00	R0.00	R0.00
7.12.2		Asphalt	m				R0.00	R0.00	R0.00
7.12.3		Paving	m				R0.00	R0.00	R0.00
7.12.4		Concrete	m				R0.00	R0.00	R0.00
7.12.5	8018	Lay PVC piping, 110mm, 6 metre length's	Ea				R0.00	R0.00	R0.00
7.12.6	8018	Lay PVC piping, 160mm, 6 metre length's	Ea				R0.00	R0.00	R0.00
7.12.7	8018	Lay PVC piping, 250mm, 6 metre length's	Ea				R0.00	R0.00	R0.00
7.12.8	8076	Concrete slabs, pre-cast cable cover	Ea				R0.00	R0.00	R0.00
7.12.9		Install Shoring for trenches as required	m				R0.00	R0.00	R0.00
7.12.10		Barricading	m				R0.00	R0.00	R0.00
7.12.11		Barricading - High Speed	m				R0.00	R0.00	R0.00
7.12.12		Installation of trench covers	Ea				R0.00	R0.00	R0.00
		TOTAL CARRIED TO SUMMARY PAGE					R0.00	R0.00	R0.00

BILL NO: 8		MV UNDERGROUND CABLE WORK, TRENCHING & INSTALLATION		PROJECT TOTALS					
Note: a)All installations, assemblies and activities shall be as per Eskom DDT series, Eskom national or Eskom local technical instructions where applicable b) Eskom will advise what is free issue material and what is contractor supplied material									
NO.	D-D-T	DESCRIPTION	UNIT						
8.1		Miniature Substations and Plinths							
		Take delivery of and safely store on site miniature substations and pre-cast plinths. Install miniature substations. All civil work to be included. Cable terminations and earthing are measured elsewhere.							
8.1.1	8052	M/Sub 200kVA, 11kV/420V Type A FH CSTL	Ea				R0.00	R0.00	R0.00
8.1.2	8052	M/Sub 315kVA, 11kV/420V Type A FH CSTL	Ea				R0.00	R0.00	R0.00
8.1.3	8052	M/Sub 500kVA, 11kV/420V Type A FH CSTL	Ea				R0.00	R0.00	R0.00
8.1.4	8052	M/Sub 1000kVA, 11kV/420V Type A FH CSTL	Ea				R0.00	R0.00	R0.00
8.1.5	8053	M/Sub 200kVA, 22kV/420V Type A FH CSTL	Ea				R0.00	R0.00	R0.00
8.1.6	8053	M/Sub 315kVA, 22kV/420V Type A FH CSTL	Ea				R0.00	R0.00	R0.00
8.1.7	8053	M/Sub 500kVA, 22kV/420V Type A FH CSTL	Ea				R0.00	R0.00	R0.00
8.1.8	8053	M/Sub 1000kVA, 22kV/420V Type A FH CSTL	Ea				R0.00	R0.00	R0.00
8.1.9	8050	M/Sub 315kVA, 11kV/420V Type B CSTL	Ea				R0.00	R0.00	R0.00
8.1.10	8050	M/Sub 500kVA, 11kV/420V Type B CSTL	Ea				R0.00	R0.00	R0.00
8.1.11	8050	M/Sub 1000kVA, 11kV/420V Type B CSTL	Ea				R0.00	R0.00	R0.00
8.1.12	8051	M/Sub 315kVA, 22kV/420V Type B CSTL	Ea				R0.00	R0.00	R0.00
8.1.13	8051	M/Sub 500kVA, 22kV/420V Type B CSTL	Ea				R0.00	R0.00	R0.00
8.1.14	8051	M/Sub 1000kVA, 22kV/420V Type B CSTL	Ea				R0.00	R0.00	R0.00
8.1.15	8054	HIGHRISK M/SUB WITH RTU 500kVA 1C;B CSTL;CB;11kV	Ea				R0.00	R0.00	R0.00
8.1.16	8054	HIGHRISK M/SUB WITH RTU 500kVA 3C;B CSTL;CB;11kV	Ea				R0.00	R0.00	R0.00
A.5.2.1.	8054	HIGHRISK M/SUB WITH RTU 1MVA 1C;B CSTL;CB;11kV	Ea				R0.00	R0.00	R0.00
A.5.2.2.	8054	HIGHRISK M/SUB WITH RTU 1MVA 3C;B CSTL;CB;11kV	Ea				R0.00	R0.00	R0.00
A.5.2.3.	8055	HIGHRISK M/SUB WITH RTU 500kVA 1C;B CSTL;CB;22kV	Ea				R0.00	R0.00	R0.00
A.5.2.4.	8055	HIGHRISK M/SUB WITH RTU 500kVA 3C;B CSTL;CB;22kV	Ea				R0.00	R0.00	R0.00
8.1.21	8055	HIGHRISK M/SUB WITH RTU 1MVA 1C;B CSTL;CB;22kV	Ea				R0.00	R0.00	R0.00
8.1.22	8055	HIGHRISK M/SUB WITH RTU 1MVA 3C;B CSTL;CB;22kV	Ea				R0.00	R0.00	R0.00
8.1.23	8025	Plinth Pre-cast Type A M/SUB	Ea				R0.00	R0.00	R0.00
8.1.24	8025	Plinth Pre-cast Type B M/SUB	Ea				R0.00	R0.00	R0.00
8.1.25	8025	Plinth pre cast type A 1MVA plinth	Ea				R0.00	R0.00	R0.00
8.1.26	8025	Plinth pre cast type B 1MVA plinth	Ea				R0.00	R0.00	R0.00
8.2		Ring Main Units and Plinths							
		Take delivery of and safely store on site ring main units and pre-cast plinths. Install the plinths. All civil work to be included. Cable terminations and earthing are measured elsewhere.							
8.2.1	8060	RMU 11kV 630A 3R CSTL O/D	Ea				R0.00	R0.00	R0.00
8.2.2	8060	RMU 11kV 630A 4R CSTL O/D	Ea				R0.00	R0.00	R0.00
8.2.3	8060	RMU 11kV 630A 2R 1B CSTL O/D	Ea				R0.00	R0.00	R0.00
8.2.4	8060	RMU 11kV 630A 2R 2B CSTL O/D	Ea				R0.00	R0.00	R0.00
8.2.5	8060	RMU 22kV 630A 3R CSTL O/D	Ea				R0.00	R0.00	R0.00
8.2.6	8060	RMU 22kV 630A 4R CSTL O/D	Ea				R0.00	R0.00	R0.00
8.2.7	8060	RMU 22kV 630A 2R 1B CSTL O/D	Ea				R0.00	R0.00	R0.00
8.2.8	8060	RMU 22kV 630A 2R 2B CSTL O/D	Ea				R0.00	R0.00	R0.00
8.2.9	8060	RMU 11kV 630A 3R CSTL ID	Ea				R0.00	R0.00	R0.00
8.2.10	8060	RMU 11kV 630A 4R CSTL ID	Ea				R0.00	R0.00	R0.00
8.2.11	8060	RMU 11kV 630A 2R 1B CSTL ID	Ea				R0.00	R0.00	R0.00
8.2.12	8060	RMU 11kV 630A 2R 2B CSTL ID	Ea				R0.00	R0.00	R0.00
8.2.13	8060	RMU 22kV 630A 3R CSTL ID	Ea				R0.00	R0.00	R0.00
8.2.14	8060	RMU 22kV 630A 4R CSTL ID	Ea				R0.00	R0.00	R0.00
8.2.15	8060	RMU 22kV 630A 2R 1B CSTL ID	Ea				R0.00	R0.00	R0.00
8.2.16	8060	RMU 22kV 630A 2R 2B CSTL ID	Ea				R0.00	R0.00	R0.00
8.2.17	8061	SWITCHGEAR:RMU 11kV 630A 3R CSTLOD IRTU	Ea				R0.00	R0.00	R0.00
8.2.18	8061	SWITCHGEAR:RMU 11KV 200A 2R1B CSTOD IRTU	Ea				R0.00	R0.00	R0.00
8.2.19	8061	SWITCHGEAR:RMU 11KV 630A 2R2BCSTOD IRTU	Ea				R0.00	R0.00	R0.00
8.2.20	8061	SWITCHGEAR:RMU 11KV 630A 2R1BCSTOD IRTU	Ea				R0.00	R0.00	R0.00
8.2.21	8061	SWITCHGEAR:RMU 11KV 200A 2R1BCSTID IRTU	Ea				R0.00	R0.00	R0.00
8.2.22	8061	SWITCHG:IRTU;OD;CST;2R1B;11kV;20KA;630 A	Ea				R0.00	R0.00	R0.00
8.2.23	8061	SWITCHGEAR:RMU 22KV 630A 3R CSTLOD IRTU	Ea				R0.00	R0.00	R0.00
8.2.24	8061	SWITCHGEAR:RMU 22KV 200A 2R1BCSTOD IRTU	Ea				R0.00	R0.00	R0.00
8.2.25	8061	SWITCHGEAR:RMU 22KV 630A 2R2BCSTOD IRTU	Ea				R0.00	R0.00	R0.00
8.2.26	8061	SWITCHGEAR:RMU 22KV 200A 2R2BCSTOD IRTU	Ea				R0.00	R0.00	R0.00
8.2.27	8061	SWITCHGEAR:RMU 22KV 200A 2R1BCSTID IRTU	Ea				R0.00	R0.00	R0.00
8.2.28	8061	SWITCHGEAR:RMU 22KV 630A 2R1BCSTOD IRTU	Ea				R0.00	R0.00	R0.00
8.2.29	8061	SWITCHG:IRTU;OD;CST;2R1B;22KV;20KA;630A	Ea				R0.00	R0.00	R0.00
8.2.30	8061	SWITCHG:IRTU;OD;CST;2R1B;33KV;20KA;630A	Ea				R0.00	R0.00	R0.00
8.2.31	8025	Plinth Pre-cast 11+22kV 3 SF6 RMU	Ea				R0.00	R0.00	R0.00
8.2.32	8025	Plinth Pre-cast 11+22kV 4 SF6 RMU	Ea				R0.00	R0.00	R0.00

8.3		CT VT and transformer ground mount units							
		Take delivery of and safely store on site ground mount CTVT and transformer units and pre-cast plinths and install plinths. All civil work to be included. Cable terminations and earthing are measured elsewhere							
8.3.1	8025	PLINTH,PRE-CAST 11+22kV CT-VT D8025	Ea				R0.00	R0.00	R0.00
8.3.2	3118	CT+VT 11kV-110V B 3VT+3CT CBL CSTL D3118	Ea				R0.00	R0.00	R0.00
8.3.3	3118	CT+VT 22kV-110V B 3VT+3CT CBL CSTL D3118	Ea				R0.00	R0.00	R0.00
8.3.4	3118	CT+VT 11kV-110V C 3VT+3CT CBL CSTL D3118	Ea				R0.00	R0.00	R0.00
8.3.5	3118	CT+VT 22kV-110V C 3VT+3CT CBL CSTL D3118	Ea				R0.00	R0.00	R0.00
8.3.6	8022	TFR 100kVA 11kV/415V W/CBL BOX CSTL	Ea				R0.00	R0.00	R0.00
8.3.7	8022	TFR 100kVA 22kV/415V W/CBL BOX CSTL	Ea				R0.00	R0.00	R0.00
8.3.8	8022	TFR 200kVA 11kV/415V W/CBL BOX CSTL	Ea				R0.00	R0.00	R0.00
8.3.9	8022	TFR 200kVA 22kV/415V W/CBL BOX CSTL	Ea				R0.00	R0.00	R0.00
8.3.10	8022	TFR 315kVA 11kV/415V W/CBL BOX CSTL	Ea				R0.00	R0.00	R0.00
8.3.11	8022	TFR 315kVA 22kV/415V W/CBL BOX CSTL	Ea				R0.00	R0.00	R0.00
8.3.12	8022	TFR 500kVA 11kV/415V W/CBL BOX CSTL	Ea				R0.00	R0.00	R0.00
8.3.13	8022	TFR 500kVA 22kV/415V W/CBL BOX CSTL	Ea				R0.00	R0.00	R0.00
8.3.14	8022	TFR 1000kVA 11kV/415V W/CBL BOX CSTL	Ea				R0.00	R0.00	R0.00
8.3.15	8022	TFR 1000kVA 22kV/415V W/CBL BOX CSTL	Ea				R0.00	R0.00	R0.00
8.3.16	8025	PLINTH,PRE-CAST 100-1000kVA TFR	Ea				R0.00	R0.00	R0.00
							R0.00	R0.00	R0.00
8.4		MV cable equipment and outdoor termination earthing							
		Install all materials for the complete MV, LV and equipotential earthing of minisubs and RMUs for U/G networks as specified. Included in the rate shall be all required spikes, insulated copper conductor, bare copper. Earthing to be installed as per referenced drawing. Excavation, backfilling and compaction are measured elsewhere.							
8.4.1	0800 series	Equipotential earth electrode	m				R0.00	R0.00	R0.00
8.4.2	0800 series	MV Earth	m				R0.00	R0.00	R0.00
8.4.3	0800 series	LV Earth	m				R0.00	R0.00	R0.00
8.5		MV Cable							
		Take delivery of and safely store on site MV cable and install MV cable in trench. Trench excavations, backfilling and compaction are measured elsewhere. Terminations and joints are measured elsewhere. Cable rollers are required to pull cable into and in trench. This activity is only for the laying of the cable into the trench and postioning the cable in the trench.							
8.5.1	8000	CABLE,ELECT:11 KV ;PILC ;25 MM2 ;3C ;CU	m					R0.00	R0.00
8.5.2	8000	CABLE,ELECT:11 KV ;PILC ;50 MM2 ;3C ;CU	m					R0.00	R0.00
8.5.3	8000	CABLE,ELECT:11 KV ;PILC ;95 MM2 ;3C ;CU	m					R0.00	R0.00
8.5.4	8000	CABLE,ELECT:11 KV ;PILC ;185 MM2 ;3C	m					R0.00	R0.00
8.5.5	8000	CABLE,ELECT:11 KV ;PILC ;300 MM2 ;3C	m					R0.00	R0.00
8.5.6	8000	CABLE,ELECT:11 KV ;PILC ;1C;630 MM2;CU	m					R0.00	R0.00
8.5.7	8000	CABLE,ELECT:22KV;PILC;25 MM2;3C;CU	m					R0.00	R0.00
8.5.8	8000	CABLE,ELECT:22 KV ;PILC ;50 MM2 ;3C ;CU	m					R0.00	R0.00
8.5.9	8000	CABLE,ELECT:22 KV ;PILC ;95 MM2 ;3C ;CU	m					R0.00	R0.00
8.5.10	8000	CABLE,ELECT:22 KV ;PILC ;185 MM2 ;3C	m					R0.00	R0.00
8.5.11	8000	CABLE,ELECT:22 KV;PILC;1C;630 MM2;CU	m					R0.00	R0.00
8.5.12	8000	CABLE,ELECT:33 KV ;PILC;95MM2;3C ;CU	m					R0.00	R0.00
8.5.13	8000	CABLE,ELECT:33 KV ;PILC ;1C;630 MM2	m					R0.00	R0.00
8.5.14	8001	CABLE,ELECT:EUX3KCQ 11KV 3C;CU;25 MM2 XLPE	m					R0.00	R0.00
8.5.15	8001	CABLE,ELECT:EUX3MCQ 11KV 3C;CU;50 MM2 XLPE	m					R0.00	R0.00
8.5.16	8001	CABLE,ELECT:EUX3PCQ 11KV 3C;CU;95 MM2 XLPE	m					R0.00	R0.00
8.5.17	8001	CABLE,ELECT:EUX3SCQ 11KV 3C;CU;185 MM2 XLPE	m					R0.00	R0.00
8.5.18	8001	CABLE,ELECT:EUX3UCQ 11KV 3C;CU;300 MM2 XLPE	m					R0.00	R0.00
8.5.19	8001	CABLE,ELECT:EUX1MCQ 11KV 1C;CU;50 MM2 XLPE	m					R0.00	R0.00
8.5.20	8001	CABLE,ELECT:EUX1PCQ 11KV 1C;CU;95 MM2 XLPE	m					R0.00	R0.00
8.5.21	8001	CABLE,ELECT:EUX1SCQ 11KV 1C;CU;185 MM2 XLPE	m					R0.00	R0.00
8.5.22	8001	CABLE,ELECT:EUX1UCQ 11KV 1C;CU;300 MM2 XLPE	m					R0.00	R0.00
8.5.23	8001	CABLE,ELECT:EUX1XCQ 11KV 1C;CU;630 MM2 XLPE	m					R0.00	R0.00
8.5.24	8001	CABLE,ELECT:EUX3PAQ 11KV 3C;AL;95 MM2 XLPE	m					R0.00	R0.00
8.5.25	8001	CABLE,ELECT:EUX3SAQ 11KV 3C;AL;185 MM2 XLPE	m					R0.00	R0.00
8.5.26	8001	CABLE,ELECT:EUX3UAQ 11KV 3C;AL;300 MM2 XLPE	m					R0.00	R0.00
8.5.27	8001	CABLE,ELECT:FUX3KCQ 22KV 3C;CU;25 MM2 XLPE	m					R0.00	R0.00
8.5.28	8001	CABLE,ELECT:FUX3MCQ 22KV 3C;CU;50 MM2 XLPE	m					R0.00	R0.00
8.5.29	8001	CABLE,ELECT:FUX3PCQ 22KV 3C;CU;95 MM2 XLPE	m					R0.00	R0.00
8.5.30	8001	CABLE,ELECT:FUX3SCQ;22 kV 3C CU;185 MM2 XLPE	m					R0.00	R0.00
8.5.31	8001	CABLE,ELECT:FUX1MCQ 22KV 1C;CU;50 MM2 XLPE	m					R0.00	R0.00
8.5.32	8001	CABLE,ELECT:FUX1PCQ 22KV 1C;CU;95 MM2 XLPE	m					R0.00	R0.00
8.5.33	8001	CABLE,ELECT:FUX1SCQ 22KV 1C;CU;185 MM2 XLPE	m					R0.00	R0.00
8.5.34	8001	CABLE,ELECT:FUX1UCQ 22KV 1C;CU;300 MM2 XLPE	m					R0.00	R0.00
8.5.35	8001	CABLE,ELECT:FUX1XCQ 22KV 1C;CU;630 MM2 XLPE	m					R0.00	R0.00
8.5.36	8001	CABLE,ELECT:FUX3MAQ 22KV 3C;AL;50 MM2 XLPE	m					R0.00	R0.00
8.5.37	8001	CABLE,ELECT:FUX3PAQ 22KV 3C;AL;95 MM2 XLPE	m					R0.00	R0.00

8.5.38	8001	CABLE,ELECT:FUX3SAQ 22KV 3C;AL;185 MM2 XLPE	m					R0.00	R0.00
8.5.39	8001	CABLE,ELECT:FUX3UAQ 22KV 3C;AL;300 MM2 XLPE	m					R0.00	R0.00
8.5.40	8001	CABLE,ELECT:GUX3MCQ 33KV 3C;CU;50 MM2 XLPE	m					R0.00	R0.00
8.5.41	8001	CABLE,ELECT:GUX3PCQ 33KV 3C;CU;95 MM2 XLPE	m					R0.00	R0.00
8.5.42	8001	CABLE,ELECT:GUX3SCQ 33KV 3C;CU;185 MM2 XLPE	m					R0.00	R0.00
8.5.43	8001	CABLE,ELECT:GUX3UCQ 33KV 3C;CU;300 MM2XLPE	m					R0.00	R0.00
8.5.44	8001	CABLE,ELECT:GUX1MCQ 33KV 1C;CU;50 MM2 XLPE	m					R0.00	R0.00
8.5.45	8001	CABLE,ELECT:GUX1PCQ 33KV 1C;CU;95 MM2 XLPE	m					R0.00	R0.00
8.5.46	8001	CABLE,ELECT:GUX1SCQ 33KV 1C;CU;185 MM2 XLPE	m					R0.00	R0.00
8.5.47	8001	CABLE,ELECT:GUX1UCQ 33KV 1C;CU;300 MM2 XLPE	m					R0.00	R0.00
8.5.48	8001	CABLE,ELECT:GUX1XCQ 33KV 1C;CU;630 MM2 XLPE	m					R0.00	R0.00
8.5.49	8001	CABLE,ELECT:GUX3MAQ 33KV 3C;AL;50 MM2 XLPE	m					R0.00	R0.00
8.5.50	8001	CABLE,ELECT:GUX3PAQ 33KV 3C;AL;95 MM2 XLPE	m					R0.00	R0.00
8.5.51	8001	CABLE,ELECT:GUX3SAQ 33KV 3C;AL;185 MM2 XLPE	m					R0.00	R0.00
8.5.52	8001	CABLE,ELECT:GUX3UAQ 33KV 3C;AL;300 MM2 XLPE	m					R0.00	R0.00
8.6		Install Outdoor MV Cable Terminations							
		Install Cable Termination onto Delta or H-pole structure with equipment links, termination support brackets, surge arrestors, stand off insulators and other ancillary equipment. Connect the termination. Install a galvanised steel pipe at ground level. Install anti climbing device. Install lables. This is only for a single 3 phase cable.							
8.6.1	850	Termination onto Delta single pole structure-station class SA's	Ea					R0.00	R0.00
8.6.2	850	Termination onto H-pole pole structure - station class SA's	Ea					R0.00	R0.00
8.6.3	851	Termination onto Overhead Line termination bracket with cut-out link onto single pole structure - Dist class SA's	Ea					R0.00	R0.00
8.6.4	851	Termination onto Overhead Line termination bracket with cut-out links onto H-Pole- Dist class SA's	Ea					R0.00	R0.00
8.7		Perform outdoor termination on cable							
		Complete an outdoortermination on the cable. This is only performing the termination by a cable jointer. Note that where single core cables are terminated the rate is for performing the termination on three cables. Mounting the termination is measured elsewhere.							
8.7.1	2805	TERM KIT 3C 11kv 16-35SQ OD PILC D2805	Ea					R0.00	R0.00
8.7.2	2806	TERM KIT 3C 11kv 16-35SQ OD XLPE D2806	Ea					R0.00	R0.00
8.7.3	2806	KIT,TERM:OD 3C 50-95MM2 XLPE;33 KV	Ea					R0.00	R0.00
8.7.4	8005	TERM KIT 1C 11kv 500-800SQ OD PILC D8005	Set of 3					R0.00	R0.00
8.7.5	8005	TERM KIT 1C 22kv 400-630SQ OD PILC D8005	Set of 3					R0.00	R0.00
8.7.6	8005	TERM KIT 3C 11kv 50-95SQ OD PILC D8005	Ea					R0.00	R0.00
8.7.7	8005	TERM KIT 3C 11kv 120-185SQ OD PILC D8005	Ea					R0.00	R0.00
8.7.8	8005	TERM KIT 3C 11kv 240-400SQ OD PILC D8005	Ea					R0.00	R0.00
8.7.9	8005	TERM KIT 3C 22kv 25-50SQ OD PILC D8005	Ea					R0.00	R0.00
8.7.10	8005	TERM KIT 3C 22kv 70-185SQ OD PILC D8005	Ea					R0.00	R0.00
8.7.11	8005	TERM KIT 3C 22kv 240-300SQ OD PILC D8005	Ea					R0.00	R0.00
8.7.12	8006	KIT,TERM:1C;LCC;XLPE;OD;630 MM2;11 KV	Set of 3					R0.00	R0.00
8.7.13	8006	KIT,TERM:1C ;LCC ;OD ;630 ;22 KV ;XLPE	Set of 3					R0.00	R0.00
8.7.14	8006	KIT,TERM:1C ;LCC ;OD ;630 MM2;33 KV ;XLPE	Set of 3					R0.00	R0.00
8.7.15	8006	KIT,TERM:3C ;XLPE ;11KV; OD ;50-120 MM2	Ea					R0.00	R0.00
8.7.16	8006	KIT,TERM:3C ;XLPE ;11KV; OD ;95-185 MM2	Ea					R0.00	R0.00
8.7.17	8006	KIT,TERM:3C ;XLPE ;33 kv OD ;95-185 ;XLPE	Ea					R0.00	R0.00
8.7.18	8006	KIT,TERM:3C ;XLPE ;11KV; OD ;185-300 MM2	Ea					R0.00	R0.00
8.7.19	8006	KIT,TERM:3C ;XLPE ;22KV; OD ;25-70 MM2	Ea					R0.00	R0.00
8.7.20	8006	KIT,TERM:3C ;OD ;50-120 ;22 KV ;XLPE	Ea					R0.00	R0.00
8.7.21	8006	KIT,TERM:3C ;XLPE ;22KV; OD ;95-185 MM2	Ea					R0.00	R0.00
8.7.22	8006	KIT,TERM:3C ;XLPE ;OD ;185-300 ;22 KV	Ea					R0.00	R0.00
8.7.23	8006	KIT,TERM:3C ;XLPE ;OD ;50-120 ;33 KV	Ea					R0.00	R0.00
8.7.24	8006	KIT,TERM:3C ;XLPE ;OD ;185-300 ;33 KV	Ea					R0.00	R0.00
8.7.25	8006	KIT TERM:3C;OD;25-70 MM2;11 KV;XLPE	Ea					R0.00	R0.00
8.8		Indoor MV Cable Terminations							
		Complete the indoor MV termination . Allow for , backfilling of trench, screeding. ES (Extended earth kits needs to be used for RMU's with CT's in the MV cable termination compartments) The rate includes performing the termination on the cable, mounting it to the equipment. For single core cables the rate is for performing the task on three cables that will make up a three phase system. The rate for fitting the unscreened and screened connectors and performing the trifurcating are all seperate and each component to deliver a completed termination must be accounted. Note that MV single core cable terminations have the components to complete three terminations to establish a three phase termination,							
8.8.1	2805	KIT,TERM:ID 3C 16-35MM2 PILC ES;11 KV	Ea					R0.00	R0.00

8.8.2	2805	TERM KIT 3C 11kV 16-35SQ ID PILC D2805	Ea				R0.00	R0.00	R0.00
8.8.3	2806	TERM KIT 3C 11kV 16-35SQ ID XLPE D2806	Ea				R0.00	R0.00	R0.00
8.8.4	8005	TERM KIT 1C 11kV 500-800SQ ID PILC D8005	Set of 3				R0.00	R0.00	R0.00
8.8.5	8005	TERM KIT 1C 22kV 400-630SQ ID PILC D8005	Set of 3				R0.00	R0.00	R0.00
8.8.6	8005	TERM KIT 3C 11kV 50-95SQ ID PILC D8005	Ea				R0.00	R0.00	R0.00
8.8.7	8005	TERM KIT 3C 22kV 70-185SQ ID PILC D8005	Ea				R0.00	R0.00	R0.00
8.8.8	8005	TERM KIT 3C 11kV 120-185SQ ID PILC D8005	Ea				R0.00	R0.00	R0.00
8.8.9	8005	TERM KIT 3C11kV120-185SQ ID ES PILCD8005	Ea				R0.00	R0.00	R0.00
8.8.10	8005	TERM KIT 3C 22kV 240-300SQ ID PILC D8005	Ea				R0.00	R0.00	R0.00
8.8.11	8005	TERM KIT 3C 22kV 25-50SQ ID PILC D8005	Ea				R0.00	R0.00	R0.00
8.8.12	8005	TERM KIT 3C 11kV 240-400SQ ID PILC D8005	Ea				R0.00	R0.00	R0.00
8.8.13	8005	TERM KIT 3C 11kV 50-95SQ ID ES PILCD8005	Ea				R0.00	R0.00	R0.00
8.8.14	8006	KIT,TERM:1C;XLPE;ID:50-120 MM2;11 KV	Set of 3				R0.00	R0.00	R0.00
8.8.15	8006	KIT,TERM:1C ;LCC ;ID ;50-120 ;11 KV	Set of 3				R0.00	R0.00	R0.00
8.8.16	8006	KIT,TERM:XLPE; 1C ;LCC ;ID ;95-185 MM2;11 KV	Set of 3				R0.00	R0.00	R0.00
8.8.17	8006	KIT,TERM:1C ;XLPE ;95-185 MM2;11KV; ID	Set of 3				R0.00	R0.00	R0.00
8.8.18	8006	KIT,TERM: XLPE; 1C ;LCC ;ID ;185-300 ;11 KV	Set of 3				R0.00	R0.00	R0.00
8.8.19	8006	KIT,TERM:1C;XLPE;ID;185-300 MM2;11 KV	Set of 3				R0.00	R0.00	R0.00
8.8.20	8006	KIT,TERM:1C;XLPE;ID;630 MM2;11 KV	Set of 3				R0.00	R0.00	R0.00
8.8.21	8006	KIT,TERM:1C;XLPE;ID;50-120 MM2;22 KV	Set of 3				R0.00	R0.00	R0.00
8.8.22	8006	KIT,TERM:1C ;LCC ;ID ;50-120 ;22 KV	Set of 3				R0.00	R0.00	R0.00
8.8.23	8006	KIT,TERM:1C ;LCC ;ID ;95-185 ;22 KV	Set of 3				R0.00	R0.00	R0.00
8.8.24	8006	KIT,TERM:1C;XLPE;22KV; ID;95-185 MM2	Set of 3				R0.00	R0.00	R0.00
8.8.25	8006	KIT,TERM:1C;XLPE;ID;185-300 MM2;22 KV	Set of 3				R0.00	R0.00	R0.00
8.8.26	8006	KIT,TERM:1C ;LCC ;ID ;185-300 ;22 KV	Set of 3				R0.00	R0.00	R0.00
8.8.27	8006	KIT,TERM:1C ;XLPE ;22KV; ID ;630 MM2	Set of 3				R0.00	R0.00	R0.00
8.8.28	8006	KIT,TERM:1C;XLPE;ID;50-120 MM2;33 KV	Set of 3				R0.00	R0.00	R0.00
8.8.29	8006	KIT,TERM:1C ;LCC ;ID ;50-120 ;33 KV	Set of 3				R0.00	R0.00	R0.00
8.8.30	8006	KIT,TERM:1C ;LCC ;ID ;95-185 MM2;33 KV	Set of 3				R0.00	R0.00	R0.00
8.8.31	8006	KIT,TERM:1C;XLPE;ID;95-185 MM2;33 KV	Set of 3				R0.00	R0.00	R0.00
8.8.32	8006	KIT,TERM:1C;XLPE;ID;185-300 MM2;33 KV	Set of 3				R0.00	R0.00	R0.00
8.8.33	8006	KIT,TERM:1C ;LCC ;ID ;185-300 MM2;33 KV	Set of 3				R0.00	R0.00	R0.00
8.8.34	8006	KIT,TERM:1C;XLPE;ID;630 MM2;33 KV	Set of 3				R0.00	R0.00	R0.00
8.8.35	8006	KIT,TERM:3C ;XLPE;11KV; ID 50-120 MM2	Set of 3				R0.00	R0.00	R0.00
8.8.36	8006	KIT,TERM:3C ;XLPE ;;11KV; ID 95-185	Set of 3				R0.00	R0.00	R0.00
8.8.37	8006	KIT,TERM:3C ;ID ;185-300 ;11 KV ;XLPE	Set of 3				R0.00	R0.00	R0.00
8.8.38	8006	KIT,TERM:3C ;XLPE ;22KV; ID ;25-70 MM2	Set of 3				R0.00	R0.00	R0.00
8.8.39	8006	KIT,TERM:3C ;XLPE ;22KV; ID ;95-185	Set of 3				R0.00	R0.00	R0.00
8.8.40	8006	KIT,TERM:3C ;ID ;185-300 ;22 KV ;XLPE	Ea				R0.00	R0.00	R0.00
8.8.41	8006	KIT,TERM:3C ;ID ;50-120 ;33 KV ;XLPE	Ea				R0.00	R0.00	R0.00
8.8.42	8006	KIT,TERM:3C ;ID ;95-185 ;33 KV ;XLPE	Ea				R0.00	R0.00	R0.00
8.8.43	8006	KIT,TERM:3C ;ID ;185-300 ;33 KV ;XLPE	Ea				R0.00	R0.00	R0.00
8.8.44	8006	KIT TERM:3C;ID;25-70 MM2;11 KV;XLPE	Ea				R0.00	R0.00	R0.00
8.8.45	8006	KIT,TERM:3C ;XLPE; ES;11KV; ID ;50-120 MM2	Ea				R0.00	R0.00	R0.00
8.8.46	8006	KIT,TERM:3C ;XLPE; ES ;11KV; ID ;95-185 MM2	Ea				R0.00	R0.00	R0.00
8.8.47	8006	KIT TERM:3C;ID;25-70 MM2;11 KV;ES;XLPE	Ea				R0.00	R0.00	R0.00
8.8.48	8006	KIT TERM:3C;ID;185-300 MM2;11 KV;ES;XLPE	Ea				R0.00	R0.00	R0.00
8.8.49	8004	TRIFUR KIT,SCR MV 2.5m XLPE 95-300 D8004	Ea				R0.00	R0.00	R0.00
8.8.50	8017	TRIFURCATING KIT,SCR 22kV 3C 25-50 D8017	Ea				R0.00	R0.00	R0.00
8.8.51	8017	TRIFURCATING KIT,SCR 22kV 3C 70-185D8017	Ea				R0.00	R0.00	R0.00
8.8.52	2816	CONNECTOR KIT,SEP UNSCR 11kV 16-35 D2816	Set of 3				R0.00	R0.00	R0.00
8.8.53	8016	CONNECTOR KIT,SEP UNSCR 11kV 50-95 D8016	Set of 3				R0.00	R0.00	R0.00
8.8.54	8016	CONNECTOR KIT,SEP UNSCR 11kV 120-185 D8016	Set of 3				R0.00	R0.00	R0.00
8.8.55	8017	CONNECTOR ELECT:SSC;25-70 MM2;22 KV	Set of 3				R0.00	R0.00	R0.00
8.8.56	8017	CONNECTOR ELECT:SSC;50-120 MM2;22 KV	Set of 3				R0.00	R0.00	R0.00
8.8.57	8017	CONNECTOR ELECT:SSC;95-185 MM2;22 KV	Set of 3				R0.00	R0.00	R0.00
8.8.58	8017	CONNECTOR ELECT:SSC;185-300 MM2;22 KV	Set of 3				R0.00	R0.00	R0.00
8.8.59	8017	CONNECTOR ELECT:SSC;630 MM2;22 KV;CU/AL	Set of 3				R0.00	R0.00	R0.00
8.8.60	8017	CONNECTOR ELECT:EXT;25-70 MM2;22 KV	Set of 3				R0.00	R0.00	R0.00
8.8.61	8017	CONNECTOR ELECT:EXT;50-120 MM2;22 KV	Set of 3				R0.00	R0.00	R0.00
8.8.62	8017	CONNECTOR ELECT:EXT;95-185 MM2;22 KV	Set of 3				R0.00	R0.00	R0.00
8.8.63	8017	CONNECTOR ELECT:EXT;185-300 MM2;22 KV	Set of 3				R0.00	R0.00	R0.00
8.8.64	8017	CONNECTOR ELECT:EXT;630 MM2;22 KV;CU/AL	Set of 3				R0.00	R0.00	R0.00
8.8.65	8017	CONNECTOR ELECT:SARR;25-70 MM2;11 KV	Set of 3				R0.00	R0.00	R0.00
8.8.66	8017	CONNECTOR ELECT:SARR;50-120 MM2;11 KV	Set of 3				R0.00	R0.00	R0.00
8.8.67	8017	CONNECTOR ELECT:SARR;95-185 MM2;11 KV	Set of 3				R0.00	R0.00	R0.00
8.8.68	8017	CONNECTOR ELECT:SARR;185-300 MM2;11 KV	Set of 3				R0.00	R0.00	R0.00
8.8.69	8017	CONNECTOR ELECT:SARR;630 MM2;11 KV;CU/AL	Set of 3				R0.00	R0.00	R0.00
8.8.70	8017	CONNECTOR ELECT:SARR;25-70 MM2;22 KV	Set of 3				R0.00	R0.00	R0.00
8.8.71	8017	CONNECTOR ELECT:SARR;50-120 MM2;22 KV	Set of 3				R0.00	R0.00	R0.00
8.8.72	8017	CONNECTOR ELECT:SARR;95-185 MM2;22 KV	Set of 3				R0.00	R0.00	R0.00
8.8.73	8017	CONNECTOR ELECT:SARR;185-300 MM2;22 KV	Set of 3				R0.00	R0.00	R0.00
8.8.74	8017	CONNECTOR ELECT:SARR;630 MM2;22 KV;CU/AL	Set of 3				R0.00	R0.00	R0.00
8.8.75	8017	CONNECTOR ELECT:EXT;185-300 MM2;33 KV	Set of 3				R0.00	R0.00	R0.00
8.8.76	8017	CONNECTOR ELECT:EXT;50-120 MM2;33 KV	Set of 3				R0.00	R0.00	R0.00
8.8.77	8017	CONNECTOR ELECT:SSC;630 MM2;33 KV;CU/AL	Set of 3				R0.00	R0.00	R0.00
8.8.78	8017	CONNECTOR ELECT:SSC;185-300 MM2;33 KV	Set of 3				R0.00	R0.00	R0.00
8.8.79	8017	CONNECTOR ELECT:SSC;50-120 MM2;33 KV	Set of 3				R0.00	R0.00	R0.00
8.8.80	8017	CONNECTOR ELECT:SSC;95-185 MM2;33 KV	Set of 3				R0.00	R0.00	R0.00
8.8.81	8017	CONNECTOR ELECT:EXT;95-185 MM2;33 KV	Set of 3				R0.00	R0.00	R0.00
8.8.82	8017	CONNECTOR ELECT:EXT;630 MM2;33 KV;CU/AL	Set of 3				R0.00	R0.00	R0.00
8.8.83	8017	CONNECTOR ELECT:SARR;630 MM2;33 KV;CU/AL	Set of 3				R0.00	R0.00	R0.00
8.8.84	8017	CONNECTOR ELECT:SARR;185-300 MM2;33 KV	Set of 3				R0.00	R0.00	R0.00
8.8.85	8017	CONNECTOR ELECT:SARR;50-120 MM2;33 KV	Set of 3				R0.00	R0.00	R0.00
8.8.86	8017	CONNECTOR ELECT:SARR;95-185 MM2;33 KV	Set of 3				R0.00	R0.00	R0.00
8.8.87	8011	SHROUD,STRAIGHT 95-300 3 CORE D8011	Set of 3				R0.00	R0.00	R0.00
8.8.88	8011	SHROUD,STRAIGHT 630 1 CORE D8011	Set of 3				R0.00	R0.00	R0.00

		MV Cable Joints							
8.9		Complete and Install joint kits for jointing of all MV cables. Joint bay excavation, backfilling and compaction should be costed separate as excavations. Note that MV single core cable joints have the components to complete one joint for one single core cable. A "TRI" joint is a joint that will convert a 3 core cable to 3xsingle core cables.							
8.9.1	8008	KIT,CABLE JOINT:3C ;11 KV ;50-120 ;TRIF	Ea				R0.00	R0.00	R0.00
8.9.2	8008	KIT,CABLE JOINT:3C ;11 KV ;185-300;TRIF	Ea				R0.00	R0.00	R0.00
8.9.3	8008	KIT,CABLE JOINT:3C ;22 KV ;185-300 TRIF	Ea				R0.00	R0.00	R0.00
8.9.4	8008	KIT,CABLE JOINT:3C ;22 KV ;25-70 ;TRIF	Ea				R0.00	R0.00	R0.00
8.9.5	8008	KIT,CABLE JOINT:3C ;22 KV ;50-120 ;TRIF	Ea				R0.00	R0.00	R0.00
8.9.6	8008	KIT,CABLE JOINT:3C ;22 KV ;95-185 ;TRIF	Ea				R0.00	R0.00	R0.00
8.9.7	8008	KIT,CABLE JOINT:3C ;22 KV ;185-300;TRIF	Ea				R0.00	R0.00	R0.00
8.9.8	8008	KIT,CABLE JOINT:3C ;33 KV ;50-120 ;TRIF	Ea				R0.00	R0.00	R0.00
8.9.9	8008	KIT,CABLE JOINT:3C ;33 KV ;95-185 ;TRIF	Ea				R0.00	R0.00	R0.00
8.9.10	8008	KIT,CABLE JOINT:3C ;33 KV ;185-300 TRIF	Ea				R0.00	R0.00	R0.00
8.9.11	8008	KIT,CABLE JOINT:3C;11 KV;95-185 MM2;TRIF	Ea				R0.00	R0.00	R0.00
8.9.12	2808	JOINT KIT 3C 11KV 16-35SQ XLPE D2808	Ea				R0.00	R0.00	R0.00
8.9.13	2808	JOINT KIT 3C 22kv 25SQ XLPE D2808	Ea				R0.00	R0.00	R0.00
8.9.14	8007	JOINT KIT 1C 11KV 500-630 SQ PILC D8007	Ea				R0.00	R0.00	R0.00
8.9.15	8007	JOINT KIT 1C 22kv 500-800 SQ PILC D8007	Ea				R0.00	R0.00	R0.00
8.9.16	8007	JOINT KIT 3C 11kv 50-95 SQ PILC D8007	Ea				R0.00	R0.00	R0.00
8.9.17	8007	JOINT KIT 3C 11kv 120-185 SQ PILC D8007	Ea				R0.00	R0.00	R0.00
8.9.18	8007	JOINT KIT 3C 11kv 240-400 SQ PILC D8007	Ea				R0.00	R0.00	R0.00
8.9.19	8007	JOINT KIT 3C 22kv 35-70 SQ PILC D8007	Ea				R0.00	R0.00	R0.00
8.9.20	8007	JOINT KIT 3C 22kv 95-240 SQ PILC D8007	Ea				R0.00	R0.00	R0.00
8.9.21	8007	JOINT KIT 3C 22kv 300-400 SQ PILC D8007	Ea				R0.00	R0.00	R0.00
8.9.22	8008	KIT,CABLE JOINT:1C ;11 KV ;50-120 ;XLPE	Ea				R0.00	R0.00	R0.00
8.9.23	8008	KIT,CABLE JOINT:1C ;11 KV ;95-185 ;XLPE	Ea				R0.00	R0.00	R0.00
8.9.24	8008	KIT,CABLE JOINT:1C ;11 KV ;185-300	Ea				R0.00	R0.00	R0.00
8.9.25	8008	KIT,CABLE JOINT:1C ;11 KV ;630 ;XLPE	Ea				R0.00	R0.00	R0.00
8.9.26	8008	KIT,CABLE JOINT:3C ;11 KV ;95-185 ;XLPE	Ea				R0.00	R0.00	R0.00
8.9.27	8008	KIT,CABLE JOINT:3C ;11 KV ;185-300	Ea				R0.00	R0.00	R0.00
8.9.28	8008	KIT,CABLE JOINT:1C ;22 KV ;50-120 ;XLPE	Ea				R0.00	R0.00	R0.00
8.9.29	8008	KIT,CABLE JOINT:1C ;22 KV ;95-185 ;XLPE	Ea				R0.00	R0.00	R0.00
8.9.30	8008	KIT,CABLE JOINT:1C ;22 KV ;185-300	Ea				R0.00	R0.00	R0.00
8.9.31	8008	KIT,CABLE JOINT:1C ;22 KV ;630 ;XLPE	Ea				R0.00	R0.00	R0.00
8.9.32	8008	KIT,CABLE JOINT:3C ;22 KV ;50-120 ;XLPE	Ea				R0.00	R0.00	R0.00
8.9.33	8008	KIT,CABLE JOINT:3C ;22 KV ;95-185 ;XLPE	Ea				R0.00	R0.00	R0.00
8.9.34	8008	KIT,CABLE JOINT:3C ;22 KV ;185-300	Ea				R0.00	R0.00	R0.00
8.9.35	8008	KIT,CABLE JOINT:3C ;33 KV ;50-120 ;CU/AL	Ea				R0.00	R0.00	R0.00
8.9.36	8008	KIT,CABLE JOINT:1C ;33 KV ;185-300 ;XLPE	Ea				R0.00	R0.00	R0.00
8.9.37	8008	KIT,CABLE JOINT:1C ;33 KV ;630 ;CU/AL	Ea				R0.00	R0.00	R0.00
8.9.38	8008	KIT,CABLE JOINT:3C ;33 KV ;25-70 ;XLPE	Ea				R0.00	R0.00	R0.00
8.9.39	8008	KIT,CABLE JOINT:3C ;33 KV ;50-120 ;XLPE	Ea				R0.00	R0.00	R0.00
8.9.40	8008	KIT,CABLE JOINT:3C ;33 KV ;95-185 ;XLPE	Ea				R0.00	R0.00	R0.00
8.9.41	8008	KIT,CABLE JOINT:3C ;33 KV ;185-300	Ea				R0.00	R0.00	R0.00
8.9.42	8008	KIT,CABLE JOINT:3C;11 KV;25-70 MM2;XLPE	Ea				R0.00	R0.00	R0.00
8.9.43	8008	KIT,CABLE JOINT:3C;11 KV;50-120 MM2;XLPE	Ea				R0.00	R0.00	R0.00
8.9.44	8008	KIT,CABLE JOINT:3C;22 KV;25-70 MM2;XLPE	Ea				R0.00	R0.00	R0.00
8.9.45	8008	KIT,CABLE JOINT:1C;33 KV;95-185 MM2;XLPE	Ea				R0.00	R0.00	R0.00
8.9.46	8021	JOINT KIT,TRANS 3C 11kv 16-35 D8021	Ea				R0.00	R0.00	R0.00
8.9.47	8021	JOINT KIT,TRANS 3C 11kv 50-95 D8021	Ea				R0.00	R0.00	R0.00
8.9.48	8021	JOINT KIT,TRANS 3C 11kv 120-185 D8021	Ea				R0.00	R0.00	R0.00
8.9.49	8021	JOINT KIT,TRANS 3C 11kv 240-400 D8021	Ea				R0.00	R0.00	R0.00
8.9.50	8021	JOINT KIT,TRANS 3C 22kv 25 D8021	Ea				R0.00	R0.00	R0.00
8.9.51	8021	JOINT KIT,TRANS 3C 22kv 35-70 D8021	Ea				R0.00	R0.00	R0.00
8.9.52	8021	JOINT KIT,TRANS 3C 22kv 95-240 D8021	Ea				R0.00	R0.00	R0.00
8.9.53	8021	KIT,CABLE JOINT:6.35/11 KV;TRATR50-95	Ea				R0.00	R0.00	R0.00
8.9.54	8021	KIT,CABLE JOINT:6.35/11 KV;TRTR120-185	Ea				R0.00	R0.00	R0.00
8.9.55	8021	KIT,CABLE JOINT:6.35/11 KV;TRTR240-400	Ea				R0.00	R0.00	R0.00
8.9.56	8021	KIT,CABLE JOINT:12.7/22 KV;TRATR50-95	Ea				R0.00	R0.00	R0.00
8.9.57	8021	KIT,CABLE JOINT:12.7/22 KV;TRTR120-185	Ea				R0.00	R0.00	R0.00
8.9.58	8021	KIT,CABLE JOINT:12.7/22 KV;TRTR240-400	Ea				R0.00	R0.00	R0.00
8.9.59	8021	KIT,CABLE JOINT:19/33 KV;TRATR50-95	Ea				R0.00	R0.00	R0.00
8.9.60	8021	KIT,CABLE JOINT:19/33 KV;TRTR120-185	Ea				R0.00	R0.00	R0.00
8.9.61	8021	KIT,CABLE JOINT:19/33 KV;TRTR240-400	Ea				R0.00	R0.00	R0.00
8.9.62	8021	KIT,CABLE JOINT:1C;33 KV;630 MM2;TRANS	Ea				R0.00	R0.00	R0.00
8.9.63	8021	KIT,CABLE JOINT:3C;11 KV;185-300 MM2	Ea				R0.00	R0.00	R0.00
8.9.64	8021	KIT,CABLE JOINT:3;11 KV;25-70 MM2;TRANS	Ea				R0.00	R0.00	R0.00
8.10		MV Cable Trenching							
		Excavate, backfill and compact MV cable trenches. Any damage to existing services shall be made good by the Contractor at his own expense and to the approval of the appointed Project Manager or Project Co-ordinator. Soil types are defined as Class1, class 2, class3 and class 4 as per Eskom standard 240-75883148.							
8.10.1	0854	Class 1 - non road crossing	m					R0.00	R0.00
8.10.2	0854	Class 2- non road crossing	m					R0.00	R0.00
8.10.3	0854	Class 3 - non road crossing	m					R0.00	R0.00
8.10.4	0854	Class 4 - non road crossing	m					R0.00	R0.00
8.10.5	0854	Class 1 - rail/ road crossing	m					R0.00	R0.00

8.10.6	0854	Class 2- rail/road crossing	m				R0.00	R0.00
8.10.7	0854	Class 3 - rail/ road crossing	m				R0.00	R0.00
8.10.8	0854	Class 4 - rail/ road crossing	m				R0.00	R0.00
8.11		Equipment Labelling :Install equipment labels on Mini-Substations, Ring Main Units, ground mount trfs (GM trfs) and MV cable according to Eskom KZN OU labelling standard KZN16SGS017						
8.11.1		Labels for Ring Main Units, Mini-Substations GM trfs, GM CT VT units	Ea				R0.00	R0.00
8.11.2		Labels on MV cable terminations and joints	Ea				R0.00	R0.00
8.12		MV Cable Testing & Hand Over						
		Perform MV insulation test on MV cable circuits less than 300m.						
8.12.1		MV cable installations less than 300 m, the cable circuit shall be tested and verified clear by means of at least a 5 kV insulation tester.	No				R0.00	R0.00
8.12.2		MV phasing	No				R0.00	R0.00
8.12.3		MV earth electrode test	No				R0.00	R0.00
8.13		MISCELLANEOUS- Install the following as required.						
8.13.1		Installation of waterproofing and sealant	m				R0.00	R0.00
8.13.2		Asphalt	m				R0.00	R0.00
8.13.3		Paving	m				R0.00	R0.00
8.13.4		Concrete	m				R0.00	R0.00
8.13.5	8018	Lay PVC piping, 110mm, 6 metre length's	Ea				R0.00	R0.00
8.13.6	8018	Lay PVC piping, 160mm, 6 metre length's	Ea				R0.00	R0.00
8.13.7	8018	Lay PVC piping, 250mm, 6 metre length's	Ea				R0.00	R0.00
8.13.8	8076	Concrete slabs, pre-cast cable cover	Ea				R0.00	R0.00
8.13.9		Install Shoring for trenches as required	m				R0.00	R0.00
8.13.10		Barricading	m				R0.00	R0.00
8.13.11		Barricading - High Speed	m				R0.00	R0.00
8.13.12		Installation of trench covers	Ea				R0.00	R0.00
8.13.13	8010	S/ARR DIST 11kV 10kA POLYMER I/D D8010	Ea				R0.00	R0.00
8.13.14	8010	S/ARR DIST 22kV 10kA POLYMER I/D D8010	Ea				R0.00	R0.00
8.13.15	8077	SLEEVE,CABLE REPAIR 60-120 1m LG. D8077	Ea				R0.00	R0.00
8.13.16		Installation and marking of cable route marker	Ea				R0.00	R0.00
8.13.17		Cart away rubble and excavated soil to a registered dumping site	ton/km				R0.00	R0.00
		TOTAL CARRIED TO SUMMARY PAGE					R0.00	R0.00

BILL NO: 9	DISMANTLING			PROJECT TOTALS		
NO.	D-D-T	DESCRIPTION	UNIT	QTY	LABOUR RATE	TOTAL
Prices are to include the recovery in good condition of poles, crossarms, insulators and line hardware, excluding the transporting of these items to the nearest Eskom Operating Unit store - it is measured somewhere else, and the backfilling consolidation and levelling of soil from excavations.						
Prices shall be in terms of meters of conductor/cable recovered and shall include for the coiling of the recovered conductor onto drums , and exclude the transporting of the conductor/cable as coiled to the nearest Eskom Operating Unit store it is measured else where .						
9.1		Removal of wooden poles by hand. Cut pole into sizes that can be carried onto truck. This is for areas inaccessible for crane trucks. Assumed and avg distance of 100m to carry the cut wood poles to truck				
9.1.1		POLE,WOOD 5m	Ea			R0.00
9.1.2		POLE,WOOD 7m	Ea			R0.00
9.1.3		POLE,WOOD 9m	Ea			R0.00
9.1.4		POLE,WOOD 10.0m	Ea			R0.00
9.1.5		POLE,WOOD 11.0m	Ea			R0.00
9.1.6		POLE,WOOD 12.0m	Ea			R0.00
9.1.7		POLE,WOOD 13.0m	Ea			R0.00
9.1.8		POLE,WOOD 14.0m	Ea			R0.00
9.1.9		POLE,WOOD 15.0 m	Ea			R0.00
9.1.10		POLE,WOOD 16.0 m	Ea			R0.00
9.1.11		POLE,WOOD 18.0 m	Ea			R0.00
9.2		Removal of wooden poles by crane. Poles loaded directly loaded onto crane truck				
9.2.1		POLE,WOOD 5m	Ea			R0.00
9.2.2		POLE,WOOD 7m	Ea			R0.00
9.2.3		POLE,WOOD 9m	Ea			R0.00
9.2.4		POLE,WOOD 10.0m	Ea			R0.00
9.2.5		POLE,WOOD 11.0m	Ea			R0.00
A.5.2.1.		POLE,WOOD 12.0m	Ea			R0.00
A.5.2.2.		POLE,WOOD 13.0m	Ea			R0.00
A.5.2.3.		POLE,WOOD 14.0m	Ea			R0.00
A.5.2.4.		POLE,WOOD 15.0 m	Ea			R0.00
9.2.10		POLE,WOOD 16.0 m	Ea			R0.00
9.2.11		POLE,WOOD 18.0 m	Ea			R0.00
9.3		Removal of crossarms.				
9.3.1		Removal of 2,5m/3.5m crossarm including hardware	Ea			R0.00
9.3.2		Removal of 4,5m crossarm including hardware	Ea			R0.00
9.4		Dismantling and recovering of MV conductor				
9.4.1	3136	MV Bare ACSR Fox Ungreased	m			R0.00
9.4.2	3136	MV Bare ACSR Fox Greased	m			R0.00
9.4.3	3136	MV Bare AAAC 35mmsq Greased	m			R0.00
9.4.4	3136	MV Bare AAAC Pine Greased	m			R0.00
9.4.5	3136	MV Bare ACSR Mink Greased	m			R0.00
9.4.6	3136	MV Bare ACSR Mink Ungreased	m			R0.00
9.4.7	3136	MV Bare AAAC Oak Greased	m			R0.00
9.4.8	3136	MV Bare ACSR Hare Greased	m			R0.00
9.4.9	3136	MV Bare ACSR Hare Ungreased	m			R0.00
9.4.10	3136	MV Bare Chicadee conductor- Greased	m			R0.00
9.4.11	3136	MV Bare Chicadee conductor- Ungreased	m			R0.00
9.4.12	3136	MV ABC 11 kV 35 mmsq 3 Core	m			R0.00
9.4.13	3136	MV ABC 11 kV 95 mmsq 3 Core	m			R0.00
9.4.14	3136	MV ABC 22 kV 35 mmsq 3 Core	m			R0.00
9.4.15	3136	MV ABC 22 kV 95 mmsq 3 Core	m			R0.00
9.5		Dismantling and recovering of LV conductor				
9.5.1	3141	COND,ABC 2C XLPE 35SQ INS NEUT	m			R0.00
9.5.2	3141	COND,ABC 3C XLPE 35SQ INS NEUT	m			R0.00
9.5.3	3141	COND,ABC 4C XLPE 35SQ INS NEUT	m			R0.00
9.5.4	3141	COND,ABC 5C XLPE 35SQ INS NEUT	m			R0.00
9.5.5	3141	COND,ABC 3C XLPE 70SQ INS NEUT	m			R0.00
9.5.6	3141	COND,ABC 4C XLPE 70SQ INS NEUT	m			R0.00
9.5.7	3141	COND,ABC 5C XLPE 70SQ INS NEUT	m			R0.00
9.5.8	3141	COND,ABC 4C XLPE 95SQ INS NEUT	m			R0.00

9.5.9	3141	COND,ABC 5C XLPE 95SQ INS NEUT	m			R0.00
9.5.10	3136	MV Bare ACSR Fox Ungreased	m			R0.00
9.5.11	3136	MV Bare ACSR Fox Greased	m			R0.00
9.5.12	3136	MV Bare AAAC 35mmsq Greased	m			R0.00
9.5.13	3136	MV Bare AAAC Pine Greased	m			R0.00
9.5.14	3136	MV Bare ACSR Mink Greased	m			R0.00
9.5.15	3136	MV Bare ACSR Mink Ungreased	m			R0.00
9.6		Dismantling of auxiliary equipment, excluding the structures.				
9.6.1	0420	SWER - Single Pole-mounted Isolation Transformer	Ea			R0.00
9.6.2	0421	SWER - 4 Pole-mounted Isolation Transformer	Ea			R0.00
9.6.3	0460	SWER - Single Pole-mounted Isolation Transformer Substation Auxiliary	Ea			R0.00
9.6.4	0461	SWER - H-pole mounted Isolation Transformer Substation Auxiliary	Ea			R0.00
9.6.5	0462	SWER-Distribution Transformer (16 or 32kVA)	Ea			R0.00
9.6.6	0463	SWER-Back-to-Back 64kVA Dual Phase Supply from a 19kV SWER Line	Ea			R0.00
9.6.7	0464	SWER- Single Phase Recloser on a Single Pole	Ea			R0.00
9.6.8	0468	SWER-Distribution Transformer (5kVA)	Ea			R0.00
9.6.9	1825	Recloser Structure -In-line arrangement	Ea			R0.00
9.6.10	DER1825 CBL	MV Cable bypass Recloser Structure -Out-of-line arrangement (excluding the main line structures but including the in, out and bypass links on the main line structure)	Ea			R0.00
9.6.11	1829B	Eskom KZN Out of line recloser structure (excluding the main line structures but including the in, out and bypass links on the main line structure)	Ea			R0.00
9.6.12	1829	Eskom national Out of line recloser structure (excluding the main line structures but including the in, out and bypass links on the main line structure)	Ea			R0.00
9.6.13	1832	Single Pole-mounted Capacitor Bank	Ea			R0.00
9.6.14	1833B	Eskom KZN Out of lineRegulator - 100 / 200A Open Delta (excluding the main line structures but including the in, out and bypass links on the main line)	Ea			R0.00
9.6.15	1833	Eskom national Out of lineRegulator - 100 / 200A Open Delta (excluding the main line structures but including the in, out and bypass links on the main line)	Ea			R0.00
9.6.16	1834B	Eskom KZN Out of line Regulator - 100 / 200A Closed Delta (excluding the main line structures but including the in, out and bypass links on the main line)	Ea			R0.00
9.6.17	1834	Eskom national Out of line Regulator - 100 / 200A Closed Delta (excluding the main line structures but including the in, out and bypass links on the main line)	Ea			R0.00
9.6.18	1840	MV CT/VT Metering - Bulk terrif - In-line arrangement (Including the meter kiosk, and LV cable, links where applicable)	Ea			R0.00
9.6.19	1841	CT/VT Metering - Statistical – In-line arrangement (Including the meter kiosk, and LV cable)	Ea			R0.00
9.6.20	1846	CT/VT Metering - Statistical – Out-of-line arrangement((Including the meter kiosk, and LV cable, links where applicable)	Ea			R0.00
9.6.21	1860	Transformer - 5-100kVA Single Pole Mounted	Ea			R0.00
9.6.22	1861	TRANSFORMER - 100-200kVA / 2-POLE PLATFORM MOUNTED (H-POLE) GENERAL ARRANGEMENT	Ea			R0.00
9.6.23	1862	TRANSFORMER 300-500kVA - 5-POLE DOUBLE PLATFORM MOUNTED GENERAL ARRANGEMENT	Ea			R0.00
9.6.24	1864	Transformer - 300-500 kVA 2-Pole Platform Mounted (Out-of-Line)	Ea			R0.00
9.6.25	1865B	Eskom KZN Transformer - Out- of- Line 100kVA to 200KVA (Excluding the main line structure and including the incoming links)	Ea			R0.00
9.6.26	1865	Eskom National Transformer - Out- of- Line 100kVA to 200KVA (Excluding the main line structure and including the incoming links)	Ea			R0.00
9.6.27	1866B	Eskom KZN Transformer - Out- of- Line 16kVA to 100kVA (Excluding the main line structure and including the incoming links)	Ea			R0.00
9.6.28	1866	Eskom national Transformer - Out- of- Line 16kVA to 100kVA (Excluding the main line structure and including the incoming links)	Ea			R0.00
9.6.29	1867	Transformer - Single pole mount 'back-to-back- 2 x 64kVA - General arrangement	Ea			R0.00
9.6.30	1868	Transformer - Extended double platform mount - >500kVA - General arrangement	Ea			R0.00
9.6.31	8052	M/Sub 200kVA, 11kV/420V Type A FH CSTL	Ea			R0.00
9.6.32	8052	M/Sub 315kVA, 11kV/420V Type A FH CSTL	Ea			R0.00
9.6.33	8052	M/Sub 500kVA, 11kV/420V Type A FH CSTL	Ea			R0.00

9.6.34	8052	M/Sub 1000kVA, 11kV/420V Type A FH CSTL	Ea		R0.00
9.6.35	8053	M/Sub 200kVA, 22kV/420V Type A FH CSTL	Ea		R0.00
9.6.36	8053	M/Sub 315kVA, 22kV/420V Type A FH CSTL	Ea		R0.00
9.6.37	8053	M/Sub 500kVA, 22kV/420V Type A FH CSTL	Ea		R0.00
9.6.38	8053	M/Sub 1000kVA, 22kV/420V Type A FH CSTL	Ea		R0.00
9.6.39	8050	M/Sub 315kVA, 11kV/420V Type B CSTL	Ea		R0.00
9.6.40	8050	M/Sub 500kVA, 11kV/420V Type B CSTL	Ea		R0.00
9.6.41	8050	M/Sub 1000kVA, 11kV/420V Type B CSTL	Ea		R0.00
9.6.42	8051	M/Sub 315kVA, 22kV/420V Type B CSTL	Ea		R0.00
9.6.43	8051	M/Sub 500kVA, 22kV/420V Type B CSTL	Ea		R0.00
9.6.44	8051	M/Sub 1000kVA, 22kV/420V Type B CSTL	Ea		R0.00
9.6.45	8054	HIGHRISK M/SUB WITH RTU 500kVA 1C;B CSTL;CB;11kV	Ea		R0.00
9.6.46	8054	HIGHRISK M/SUB WITH RTU 500kVA 3C;B CSTL;CB;11kV	Ea		R0.00
9.6.47	8054	HIGHRISK M/SUB WITH RTU 1MVA 1C;B CSTL;CB;11kV	Ea		R0.00
9.6.48	8054	HIGHRISK M/SUB WITH RTU 1MVA 3C;B CSTL;CB;11kV	Ea		R0.00
9.6.49	8055	HIGHRISK M/SUB WITH RTU 500kVA 1C;B CSTL;CB;22kV	Ea		R0.00
9.6.50	8055	HIGHRISK M/SUB WITH RTU 500kVA 3C;B CSTL;CB;22kV	Ea		R0.00
9.6.51	8055	HIGHRISK M/SUB WITH RTU 1MVA 1C;B CSTL;CB;22kV	Ea		R0.00
9.6.52	8055	HIGHRISK M/SUB WITH RTU 1MVA 3C;B CSTL;CB;22kV	Ea		R0.00
9.6.53	8025	Plinth Pre-cast Type A M/SUB	Ea		R0.00
9.6.54	8025	Plinth Pre-cast Type B M/SUB	Ea		R0.00
9.6.55	8025	Plinth pre cast type A 1MVA plinth	Ea		R0.00
9.6.56	8025	Plinth pre cast type B 1MVA plinth	Ea		R0.00
9.6.57	8060	RMU 11kV 630A 3R CSTL O/D	Ea		R0.00
9.6.58	8060	RMU 11kV 630A 4R CSTL O/D	Ea		R0.00
9.6.59	8060	RMU 11kV 630A 2R 1B CSTL O/D	Ea		R0.00
9.6.60	8060	RMU 11kV 630A 2R 2B CSTL O/D	Ea		R0.00
9.6.61	8060	RMU 22kV 630A 3R CSTL O/D	Ea		R0.00
9.6.62	8060	RMU 22kV 630A 4R CSTL O/D	Ea		R0.00
9.6.63	8060	RMU 22kV 630A 2R 1B CSTL O/D	Ea		R0.00
9.6.64	8060	RMU 22kV 630A 2R 2B CSTL O/D	Ea		R0.00
9.6.65	8060	RMU 11kV 630A 3R CSTL ID	Ea		R0.00
9.6.66	8060	RMU 11kV 630A 4R CSTL ID	Ea		R0.00
9.6.67	8060	RMU 11kV 630A 2R 1B CSTL ID	Ea		R0.00
9.6.68	8060	RMU 11kV 630A 2R 2B CSTL ID	Ea		R0.00
9.6.69	8060	RMU 22kV 630A 3R CSTL ID	Ea		R0.00
9.6.70	8060	RMU 22kV 630A 4R CSTL ID	Ea		R0.00
9.6.71	8060	RMU 22kV 630A 2R 1B CSTL ID	Ea		R0.00
9.6.72	8060	RMU 22kV 630A 2R 2B CSTL ID	Ea		R0.00
9.6.73	8061	SWITCHGEAR:RMU 11KV 630A 3R CSTLOD IRTU	Ea		R0.00
9.6.74	8061	SWITCHGEAR:RMU 11KV 200A 2R1B CSTOD IRTU	Ea		R0.00
9.6.75	8061	SWITCHGEAR:RMU 11KV 630A 2R2BCSTOD IRTU	Ea		R0.00
9.6.76	8061	SWITCHGEAR:RMU 11KV 630A 2R1BCSTOD IRTU	Ea		R0.00
9.6.77	8061	SWITCHGEAR:RMU 11KV 200A 2R1BCSTID IRTU	Ea		R0.00
9.6.78	8061	SWITCHG:IRTU;OD;CST;2R1B;11KV;20KA;630 A	Ea		R0.00
9.6.79	8061	SWITCHGEAR:RMU 22KV 630A 3R CSTLOD IRTU	Ea		R0.00
9.6.80	8061	SWITCHGEAR:RMU 22KV 200A 2R1BCSTOD IRTU	Ea		R0.00
9.6.81	8061	SWITCHGEAR:RMU 22KV 630A 2R2BCSTOD IRTU	Ea		R0.00
9.6.82	8061	SWITCHGEAR:RMU 22KV 200A 2R2BCSTOD IRTU	Ea		R0.00
9.6.83	8061	SWITCHGEAR:RMU 22KV 200A 2R1BCSTID IRTU	Ea		R0.00
9.6.84	8061	SWITCHGEAR:RMU 22KV 630A 2R1BCSTOD IRTU	Ea		R0.00
9.6.85	8061	SWITCHG:IRTU;OD;CST;2R1B;22KV;20KA;630A	Ea		R0.00
9.6.86	8061	SWITCHG:IRTU;OD;CST;2R1B;33KV;20KA;630A	Ea		R0.00
9.6.87	8025	Plinth Pre-cast 11+22kV 3 SF6 RMU	Ea		R0.00
9.6.88	8025	Plinth Pre-cast 11+22kV 4 SF6 RMU	Ea		R0.00
9.6.89	8025	PLINTH,PRE-CAST 11+22kV CT-VT D8025	Ea		R0.00
9.6.90	3118	CT+VT 11kV-110V B 3VT+3CT CBL CSTL D3118	Ea		R0.00
9.6.91	3118	CT+VT 22kV-110V B 3VT+3CT CBL CSTL D3118	Ea		R0.00
9.6.92	3118	CT+VT 11kV-110V C 3VT+3CT CBL CSTL D3118	Ea		R0.00
9.6.93	3118	CT+VT 22kV-110V C 3VT+3CT CBL CSTL D3118	Ea		R0.00
9.6.94	8022	TFR 100kVA 11kV/415V W/CBL BOX CSTL	Ea		R0.00
9.6.95	8022	TFR 100kVA 22kV/415V W/CBL BOX CSTL	Ea		R0.00
9.6.96	8022	TFR 200kVA 11kV/415V W/CBL BOX CSTL	Ea		R0.00
9.6.97	8022	TFR 200kVA 22kV/415V W/CBL BOX CSTL	Ea		R0.00
9.6.98	8022	TFR 315kVA 11kV/415V W/CBL BOX CSTL	Ea		R0.00
9.6.99	8022	TFR 315kVA 22kV/415V W/CBL BOX CSTL	Ea		R0.00
9.6.100	8022	TFR 500kVA 11kV/415V W/CBL BOX CSTL	Ea		R0.00
9.6.101	8022	TFR 500kVA 22kV/415V W/CBL BOX CSTL	Ea		R0.00

9.6.102	8022	TFR 1000kVA 11kV/415V W/CBL BOX CSTL	Ea			R0.00
9.6.103	8022	TFR 1000kVA 22kV/415V W/CBL BOX CSTL	Ea			R0.00
9.6.104	8025	PLINTH,PRE-CAST 100-1000kVA TFR	Ea			R0.00
9.6.105		Remove hazemeyer or interswitch	Ea			R0.00
9.7		Recovering MV and LV cables. This includes excavating the trench and removing the cable and backfilling the trench.				
9.7.1		LV Cables	m			R0.00
9.7.2		MV Cables	m			R0.00
9.8		Disconnecting and removing MV terminations and LV terminations.				
9.8.1		3 core Indoor terminations 16-35mmsq	Ea			R0.00
9.8.2		3 core Indoor terminations 25-50mmsq	Ea			R0.00
9.8.3		3 core Indoor terminations 50-95mmsq	Ea			R0.00
9.8.4		3 core Indoor terminations 70-185mmsq	Ea			R0.00
9.8.5		3 core Indoor terminations 120-185mmsq	Ea			R0.00
9.8.6		3 core Indoor terminations 300mmsq	Ea			R0.00
9.8.7		1 core Indoor terminations 630mmsq	Ea			R0.00
9.8.8		1 core Indoor terminations 16-35mmsq	Ea			R0.00
9.8.9		1 core Indoor terminations 25-50mmsq	Ea			R0.00
9.8.10		1 core Indoor terminations 50-95mmsq	Ea			R0.00
9.8.11		1 core Indoor terminations 70-185mmsq	Ea			R0.00
9.8.12		1 core Indoor terminations 120-185mmsq	Ea			R0.00
9.8.13		1 core Indoor terminations 300mmsq	Ea			R0.00
9.8.14		1 core Indoor terminations 630mmsq	Ea			R0.00
9.9		Removal of ground and pole mount LV kiosks and pole top boxes				
9.9.1	3214	KIOSK,DIST. 12 WAY HIGH RISK D3214 -GROUND MOUNT	Ea			R0.00
9.9.2	3214	KIOSK,DIST. LOAD MNGMNT.16 WAY D3214 -GROUND MOUNT	Ea			R0.00
9.9.3	3214	KIOSK,DIST. LOAD MNGMNT.24 WAY D3214- GROUND MOUNT	Ea			R0.00
9.9.4	3236	KIOSK METER:1PH ;16 KVA ;EMPTY-POLE MOUNT	Ea			R0.00
9.9.5	3236	KIOSK METER:1PH;16 KVA;SPU-POLE MOUNT	Ea			R0.00
9.9.6	3236	KSK MTR:1PH,16 KVA,SPU NO METER	Ea			R0.00
9.9.7	3236	KIOSK METER:3PH;25 KVA;EMPTY-POLE MOUNT	Ea			R0.00
9.9.8	3236	KIOSK METER:3PH;25 KVA;EMPTY-GROUND MOUNT	Ea			R0.00
9.9.9	3236	KIOSK METER:3PH ;25 KVA ;SPU-POLE MOUNT	Ea			R0.00
9.9.10	3236	KIOSK METER:3PH ;25 KVA ;SPU-GROUND MOUNT	Ea			R0.00
9.9.11	3236	KIOSK METER:3PH ;50 KVA ;SPU-POLE MOUNT	Ea			R0.00
9.9.12	3236	KIOSK METER:3PH ;50 KVA ;SPU-GROUND MOUNT	Ea			R0.00
9.9.13	3236	KIOSK METER:3PH ;25 KVA ;RURAFLEX-POLE MOIUNT	Ea			R0.00
9.9.14	3236	KIOSK METER:3PH ;25 KVA ;RURAFLEX-GROUND MOIUNT	Ea			R0.00
9.9.15	3236	KIOSK METER:3PH ;50 KVA ;RURAFLEX-POLE MOIUNT	Ea			R0.00
9.9.16	3236	KIOSK METER:3PH ;50KVA ;RURAFLEX-GROUND MOIUNT	Ea			R0.00
9.9.17	3236	KSK MTR:3PH,25 KVA,SPU NO METER-POLE MOUNT	Ea			R0.00
9.9.18	3236	KSK MTR:3PH,25 KVA,SPU NO METER-GROUND MOUNT	Ea			R0.00
9.9.19	3236	KSK MTR:3PH,50 KVA,SPU NO METER-POLE MOUNT	Ea			R0.00
9.9.20	3236	KSK MTR:3PH,50 KVA,SPU NO METER-GROUND MOUNT	Ea			R0.00
9.9.21	3236	KSK MTR:3PH,50 KVA,SPU DC & METER-POLE MOUNT	Ea			R0.00
9.9.22	3236	KSK MTR:3PH,100 KVA,SPU DC & METER	Ea			R0.00
9.9.23	3236	KIOSK METER:3PH ;100 KVA ;SPU-POLE MOUNT	Ea			R0.00
9.9.24	3236	KIOSK METER:3PH ;100 KVA ;SPU-GROUND MOUNT	Ea			R0.00
9.9.25	3236	KIOSK METER:3PH;100 KVA;EMPTY-POLE MOUNT	Ea			R0.00
9.9.26	3236	KIOSK METER:3PH;100 KVA;EMPTY-GROUND MOUNT	Ea			R0.00
9.9.27	3236	KSK MTR:3PH,100 KVA,SPU NO METER-POLE MOUNT	Ea			R0.00
9.9.28	3236	KSK MTR:3PH,100 KVA,SPU NO METER-GROUND MOUNT	Ea			R0.00
9.9.29	3236	KIOSK METER:1PH ;16 KVA ;2 WAY ; BS METERS-GROUND MOUNT	Ea			R0.00
9.9.30	3236	KIOSK METER:1PH ;16 KVA ;3 WAY ; BS METERS-GROUND MOUNT	Ea			R0.00
9.9.31	3236	KIOSK METER:1PH ;16 KVA ;4 WAY ; BS METERS-GROUND MOUNT	Ea			R0.00
9.9.32	3236	KIOSK METER:1PH ;16 KVA ;6 WAY ; BS METERS-GROUND MOUNT	Ea			R0.00
9.9.33	3236	KIOSK METER:1PH ;16 KVA ;15 WAY-GROUND MOUNT	Ea			R0.00
9.9.34	3236	KIOSK METER:1PH ;2 WAY ;EMPTY ; BS METERS-GROUND MOUNT	Ea			R0.00
9.9.35	3236	KIOSK METER:1PH ;4 WAY ;EMPTY ; BS METERS-GROUND MOUNT	Ea			R0.00
9.9.36	3236	KIOSK METER:1PH ;6 WAY ;EMPTY ; BS METERS-GROUND MOUNT	Ea			R0.00
9.9.37	3236	KSK MTR:1PH,16 KVA,2 WAY NO BS METERS-GROUND MOUNT	Ea			R0.00
9.9.38	3236	KSK MTR:1PH,16 KVA,3 WAY NO BS METERS-GROUND MOUNT	Ea			R0.00
9.9.39	3236	KSK MTR:1PH,16 KVA,4 WAY NO BS METERS-GROUND MOUNT	Ea			R0.00
9.9.40	3236	KSK MTR:1PH,16 KVA,6 WAY NO BS METERS-GROUND MOUNT	Ea			R0.00
9.9.41	3236	KSK MTR:1PH,16 KVA,15 WAY NO BS METERS-GROUND METERS	Ea			R0.00
9.9.42	3236	KIOSK METER:3PH ;25 KVA ;2 WAY- FULLY WIRED - GROUND MOUNT	Ea			R0.00
9.9.43	3236	KIOSK METER:3PH ;50 KVA ;2 WAY- FULLY WIRED - GROUND MOUNT	Ea			R0.00

9.9.44	3236	KIOSK METER:3PH ;2 WAY ;EMPTY-GROUND MOUNT	Ea			R0.00
9.9.45	3236	KIOSK METER:3PH ;25 KVA ;4 WAY-GROUND MOUNT	Ea			R0.00
9.9.46	3236	KIOSK METER:3PH ;50 KVA ;4 WAY-GROUND MOUNT	Ea			R0.00
9.9.47	3236	KIOSK METER:3PH ;4 WAY ;EMPTY-GROUND MOUNT	Ea			R0.00
9.9.48	3236	KSK MTR:3PH,25 KVA,2 WAY NO BS METERS-GROUND MOUNT	Ea			R0.00
9.9.49	3236	KSK MTR:3PH,50 KVA,2 WAY NO BS METERS-GROUND MOUNT	Ea			R0.00
9.9.50	3236	KSK MTR:3PH,25 KVA,4 WAY NO BS METERS-GROUND MOUNT	Ea			R0.00
9.9.51	3236	KSK MTR:3PH,50 KVA,4 WAY NO BS METERS-GROUND MOUNT	Ea			R0.00
9.9.52	3236	KIOSK METER:3PH ;200 KVA ;EMPTY POLE MOUNT	Ea			R0.00
9.9.53	3236	KIOSK METER:3PH ;100 KVA ;LPU -POLE MOUNT	Ea			R0.00
9.9.54	3236	KIOSK METER:3PH ;200 KVA ;LPU POLE MOUNT	Ea			R0.00
9.9.55	3236	KIOSK METER:3PH ;315 KVA ;LPU POLE MOUNT	Ea			R0.00
9.9.56	3236	KIOSK METER:3PH ;500 KVA ;LPU POLE MOUNT	Ea			R0.00
9.9.57	3236	KIOSK METER:3PH ;CT/VT-POLE MOUNT	Ea			R0.00
9.9.58	3236	KIOSK METER:3PH ;CT/VT-GROUND MOUNT	Ea			R0.00
9.9.59	3236	KIOSK METER:3PH ;800 KVA ;GROUND MOUNT	Ea			R0.00
9.9.60	3236	KIOSK METER:3PH ;1000 KVA ;GROUND MOUNT	Ea			R0.00
9.9.61	3236	KIOSK METER:3PH ;100 KVA ;GROUND MOUNT	Ea			R0.00
9.9.62	3236	KIOSK METER:3PH ;200 KVA ;GROUND MOUNT	Ea			R0.00
9.9.63	3236	KIOSK METER:3PH ;315 KVA ;GROUND MOUNT	Ea			R0.00
9.9.64	3236	KIOSK METER:3PH ;500 KVA ;GROUND MOUNT	Ea			R0.00
9.9.65	3236	KSK MTR:3PH;50 KVA;2 WAY SECURE GRND MNT	Ea			R0.00
9.9.66	3236	KSK MTR:3PH;50 KVA;4 WAY SECURE GRND MNT	Ea			R0.00
9.9.67	1013	DATA CONCENTRATOR INSTALLATION IN MINISUB	Ea			R0.00
9.9.68	1047/1048	DATA CONCENTRATOR INSTALLATION FOR MINISUB WITH KIOSK NEXT TO MINISUB	Ea			R0.00
9.9.69	1034	DATA CONCENTRATOR INSTALLATION FOR MINISUB WITH KIOSK NEXT TO MINISUB ON A POLE	Ea			R0.00
9.9.70		Removal of a post / pin insulator	Ea			R0.00
9.9.71		Removal of a long rod	Ea			R0.00
9.9.72		Removal of SPU unit with rails	Ea			R0.00
9.9.73		Removal of MV link	Ea			R0.00
9.9.74		Removal of LV fuse unit	Ea			R0.00
9.9.75		Removal of MV & LV Stay assemblies- complete	Ea			R0.00
9.9.76		Removal of MV & LV Strut assemblies- complete	Ea			R0.00
9.9.77		Removal of LV circuit breaker	Ea			R0.00
9.9.78		Removal of poly meter	Ea			R0.00
9.9.79		Removal of split/smart meter	Ea			R0.00
9.9.80		Removal of ED / ECU	Ea			R0.00
9.9.81		Removal of single phase meter box	Ea			R0.00
9.9.82		AP4 meter box + pipe	Ea			R0.00
9.9.83		Remove broken/damage bonding & BIL on existing structure	Ea			R0.00
9.9.84		Remove broken/damage bonding & BIL on existing structure with spark gap device	Ea			R0.00
9.9.85		Removal - complete of one Voltage Regulator can	Ea			R0.00
9.9.86		Removal of service connection type A - direct to house	Ea			R0.00
9.9.87		Removal of service connection type B - with house service pole(excluding the service pole that should be measured under pole removal)	Ea			R0.00
9.9.88	3055	Removal of box,pole top split meter 2-way 50A	Ea			R0.00
9.9.89	3055	Removal of box,pole top split meter 4-way 50A	Ea			R0.00
9.9.90	3055	Removal of box,pole top split meter 4-way 120A	Ea			R0.00
9.9.91	3055	Removal of box,pole top split meter 8-way 50A	Ea			R0.00
9.9.92	3055	Removal of box distr:pole top splitmeter 2-way 60A	Ea			R0.00
9.9.93	3055	Removal of box distr:poletop split meter 6-way 20A	Ea			R0.00
9.9.94	3055	Removal of box distr:poletop split meter 6-way 60A	Ea			R0.00
9.9.94		Removal of cable concrete slab	Ea			R0.00
		TOTAL CARRIED TO SUMMARY PAGE				R0.00

BILL NO: 10	ADDITIONAL ITEMS				
NO.	DESCRIPTION	UNIT	QTY	RATE	TOTAL
This schedule is used to assist with the valuation of Compensation Events. All claims shall be supported by satisfactory documentary evidence.					
10.1.1	Electrician (qualified trade test)	hour			R0.00
10.1.2	MV & LV authorisation permit holder (Responsible Person)	hour			R0.00
10.1.3	Linesman (Proof of qualification required)	hour			R0.00
10.1.4	Cable Joints (Proof of qualification required)	hour			R0.00
10.1.5	Semi-skilled Labour	hour			R0.00
10.1.6	Unskilled Labour - no formal NQF qualification	hour			R0.00
10.1.7	4X2 Single Cab	day			R0.00
10.1.8	4X4 Double Cab	day			R0.00
10.1.9	8-ton crane truck	day			R0.00
10.1.10	Mini Bus	day			R0.00
	TOTAL CARRIED TO SUMMARY PAGE				R0.00
Verified By: Clerk of Works		DATE			
Cost Checked by: Quantity Surveyor		DATE			
Accepted By: Contractor		DATE			
Approved By: Programme Manager		DATE			