

BILL No. 1 - PRELIMINARY AND GENERAL

Sogoni Phase 2		PRICE (EXC. VAT)				
Item	Description	Unit	QTY	Supply Rate	Install Rate	Amount
1.1	Conditions of Contract Contractual requirements including, amongst others, Insurance of Works, Transport & Residence, Preparation of Site Camp, maintenance of fire-breaks, Dismantling of Site Camp & restoration to original condition, Attendance to meetings, liaison & co-ordination with TSC, roads authority, SAPS for outages, Handing Over as per TQRRP020, weekly stats reporting, monthly man hours reporting, etc...	Item	1.00			
1.2	Site Store and Office The Electrical contractor shall provide for a temporary site office, for his own use where all drawings and specifications shall be kept in accordance with the provisions of the specifications, as well as provision of safe and adequate storage space for all material and the removal of such on completion.	Per Month	5.00			
1.3	Materials Management Allow for co-ordination with Eskom, receipt and handling of "free-issue" materials from the New Germany stores, including the transport, loading & offloading, safekeeping & storage and the maintenance of a record keeping system to track the issue of materials for incorporation into the works. Eskom to supply free issue material to site which include: Section Breaker, Transformers, Meters and Bases, Fox Conductor, LV ABC Conductor, 4 and 10mm² Airdac, Labels & Seals.	Item	1.00			
1.4	Sample Line Allow for the co-ordination with T&Q & the construction of a sample line as detailed in EI048MVL & Eskom specifications.	Item	1.00			
1.5	As-built drawings (on Survey Department approval) Allow for the marking up, annotating of a set of drawings to accurately represent the works constructed, the co-ordination with the surveyor on site for re-pegging where appropriate and supply to the Engineer for approval (2-5m accuracy). Engineer supplies only 3 sets of Construction Drawings. Supply As-Built to Engineer 4 weeks before Outage, to allow the CoW to verify and forward to Survey for approval.	Item	1.00			
1.6	Safety Regulations The Electrical Contractor is to invoke adequate allowances to abide by the Construction Regulations that has been promulgated in the Government Gazette in July 2003 extracted from the OHS ACT 85 of 1993. This will include the services of a competent safety officer that will ensure that all requirements pertaining to the construction regulations have been met for the duration of the contract. Include, amongst others, the preparation, implementation, updating, amending, checking and upon completion of the works and handing over of the H&S file to the Engineer.					
1.6(a)	Legal and contractual compliance as per OHS Act, Construction Regulations & Eskom Safety Regulations.	Item	1.00			
1.6(b)	Personal protective Equipment. The contractor is to make adequate provision for the supply and management of acceptable safety clothing for his/her duly appointed casual labour in order to facilitate compliance with the OHS ACT 85 of 1993.	per person	20.00			
1.6(c)	Fall arrest system/Ladders/Climbing Irons etc...	5 Months	1.00			
1.6(d)	Health & Safety Plan, File & and requirements as per Works Information and Eskom DDT standards.	Item	1.00			
1.7	Labour Intensive Works Expanded Public Works Programme (EPWP)					
1.7.1	Compliance with the EPWP reports	Per Month	5.00			
1.7.2	PC Amount for CLO	Per Month	5.00	R	5,000.00	R 25,000.00
1.7.3	PC Amount for PSC Members	Sum	5.00	R	2,000.00	R 10,000.00
1.8	Electricity					
1.8.1	Contractor is to Source Temporary Power Supply for the Site Office. Contractor will Ascertain that this Temporary Supply is Metered at all Times.	Sum	1.00			
1.9	Site Fence					
1.9.1	Contractor is to Supply and Install Diamond Mesh Fence at 1.8m	m	40.00			
19.2	Supply and Install Diamond mesh Lockable Gate 1.8m high x 3.6m wide	each	1.00			
	Amount Carried Forward to Next Page					

Item	Description	Unit	QTY	Labour Rate	Material Rate	Amount
	Amount Brought Forward From Previous Page					
1.10	Other					
1.10.1	Supply, Install and remove on completion of a Project Notice Board,as per Municipality's requirements	Item	1.00			
1.10.2	Security	Per Month	5.00			
1.10.3	PC amount for Re-Pegging	Sum	1.00			
1.10.4	PC amount for Compiling PCS File and Handover Documentation	Sum	1.00			
1.11	Eskom Service					
1.11.1	The Contractor shall make allowance to Organize and Receive Customer Education Material From Eskom For the Project Site	Sum	1.00			
1.12	Contractual Requirements					
1.12.1	Comply ,maintain all insurance and statutory contributions, etc	Sum	1.00			
1.13	Accomodation					
1.13.1	Staff Accommodation Allowance	Month	5.00			
1.14	Engineering Services					
	Allow for Engineer's QMS Services	Sum	1.00			R 129,158.30
1.15	Dismantling of Electrical Infrastructure					
	Allow for dismantling and removal of existing illegal electrical infrastructure	Sum	1.00			
TOTAL : Carried forward to summary						

BILL No. 2 - MEDIUM VOLTAGE SWITCHGEAR, SECTIONALISERS, TRANSFORMERS, ETC

Sogoni Phase 2		PRICE (EXC. VAT)					
Item	Description	Unit	DDT	QTY	Supply Rate	Install Rate	Total Price (R)
	Transformers (Coastal Spec.) - pole mounted						
	Installation of existing or new Eskom-supplied transformers on an appropriate structure and secure as required including the termination of cables and conductors, the provision of suitable lugs for 35, 50 or 70mm conductor as required & all accessories. Excluding cable, conductors, and the transformer structure. Include transport, offloading/loading, safe storage from appropriate Eskom store.						
2.2	NEW Transformer 25kVA, 22kV/+240V/-240V	No	3021	0			Rate Only
2.3	NEW Transformer 50kVA, 22kV/+460V/-460V	No	3021	1			
2.4	NEW Transformer 100kVA, 22kV/+460V/-460V	No	3021	5			
	Medium Voltage Surge Arrestors						
	Supply, deliver, off load on site and safely store on site the following surge arrestors, complete with galvanised steel mounting brackets for securing the surge arrestor, nuts, bolts, washers and lock washers as specified. Secure the surge arrestors and brackets to the transformer as specified including the termination of conductors. Excluding the conductors and transformer. Discharge current 10kA.						
2.5	22kV, MCOV Surge arrestor	No	3100	18.00			
	Medium Voltage Sectionalisers and Links						
	Supply and install link isolators as detailed including the installation of crossarm brackets and the termination of conductors and including the drilling of holes in wooden poles as required.						
2.6	Section Links, Single Pole (2.5m X-arm) (three phase)	No	1848	4			
2.7	Equipment Links, Single Pole (2.5m X-arm) (dual phase)	No	1849	0			
2.8	Equipment Links, Single Pole (2.5m X-arm) (three phase)	No	1849	6			
	Neutral Surge Arrestor						
	Supply and install a LV surge arrestor including lugs and galvanised bolts						
2.9	6kV, 10kA Surge Arrestor	No	3088	6			
	Transformer & Equipment Earthing						
	Supply and install all materials for the complete earthing of transformer structures for ABC networks as specified. Included in the rate shall be all required spikes, insulated copper conductor, galvanised conduits, staples, bare copper, excavations, backfilling, etc. The rate shall allow for all required MV earth electrodes, consisting of four earth spikes in accordance with the Distribution specifications, Part 2. Additional earth spikes/conductor shall be measured elsewhere if required.						
2.10	MV Earth	No	1860	6			
2.11	Section Breaker Earthing 22kV, 400A, 8kA with IRTU	No	1829B	1			Rate Only
Amount carried over to next page							

BILL No. 3 - MEDIUM VOLTAGE OVERHEAD DISTRIBUTION SYSTEM

Sogoni Phase 2		PRICE (EXC. VAT)					
	Description	Unit	DDT	QTY	Supply Rate	Install Rate	Total Price (R)
3.1	Conductor						
	Supply, safely store on sealed drums with ends adequately secured and transport to site conductor as specified. String conductor as specified including splices, jumper conductor ties, strain clamps, suspension clamps, tensioning, sagging, etc.						
Note	The following dimensions will all be "Conductor Length" with 10% is allowed for slack & wastage. Additional wastage/slack is for Contractor's account.						
3.1.1	ACSR Fox - 8.37D	m	3136	8,415			
	MV Structures						
Note	Allow for the following structures and insulator assemblies in accordance with the specifications as shown in the drawings. Include the specified crossarms, drilling of holes and treating of such holes, the provision of the U-nails and earthwire in accordance with Eskom specifications. All jumpers to links and transformers to be installed with PVC black pipe. Supply and installation of 15m of 3/3.35x1100MPa steel wire for a BIL for each pole structure as per Eskom specification. Exclude the supply and planting of poles, stays and struts which are measured elsewhere. Insulators as per EI090SS. Include BIL insulation co-ordination for shared MV & LV structures as per 03TB-34 or later approved Eskom standard.						
	Supply and install all material as specified for the construction of the following MV structures. Including bonding of hardware and earthing. All excavations, poles, crossarms and stays are measured elsewhere.						
	Note: RX refers to statutory road crossings with the relevant DDT0257-10kN-31mm/kV post insulator, full wrap tie or DDT0251-40kN-31mm/kV longrod with pistolgrips.						
3.2	2 Phase Structures General Arrangement						
3.2.1	Phase / phase – Staggered Vertical (600mm spacing) – Intermediate – 0° Deviation	No	1310	1			Rate Only
3.2.2	Phase / phase – Vertical (600mm spacing) – Intermediate – Small(1°-±10°) Deviation	No	1311	1			Rate Only
3.2.3	Phase / phase – Vertical (600mm spacing) – Strain - 0° Deviation	No	1313	1			Rate Only
3.3	3 Phase Structures General Arrangement						
3.3.1	3 Phase -Delta horizontal intermediate - Strain Large 0° Deviation	No	1740B	1			Rate Only
3.3.2	3 Phase - Vertical (600mm spacing) - Strain – Small(1°-30°) Deviation	No	1714	1			Rate Only
3.3.3	3 Phase - Delta / 2,5m Wood X-arm - Strain – 0° Deviation	No	1740B	26			
3.3.4	3 Phase-Delta / 2.5m Wood X-arm Strain 1 - 60° Deviation	No	1744	14			
3.3.5	3 Phase - Delta / 2,5m Wood X-arm - Strain Terminal	No	1746	11			
	Amount carried over to next page						

	Description	Unit		QTY	Supply Rate	Install Rate	Total Price (R)
3.4	Auxiliary Structures						
3.4.1	3Ph, Take off (2.5m X-arm)	No	1804	8			
3.4.2	2Ph, Take off (2.5m X-arm)	No	1814	1			Rate Only
3.4.3	Transformer - Single Pole mount (16-100kVA).	No	1860	1			Rate Only
3.4.4	Transformer - Pole mounting out-of-line (16-100kVA) includes 1866 module, etc... as per EI067-MVL) and excludes transforme and equipment links.	No	1866B	1			
3.4.5	Transformer - Pole mounting out-of-line (100-200kVA) includes 1865B module, etc... as per EI067-MVL) and excludes transformer and equipment links.		1865	5			
3.4.5	3Ph, T-Frame (2m Steel X-arm)	No	1870B	1			Rate Only
3.4.6	Equipment Links Cut-Outs Or Disconnectors 2.5m Wood Crossarm / Single Pole	No	1849	1			Rate Only
3.4.7	Section / Equipment Links Or Disconnectors 1.3m Steel Crossarm / Single Pole	No	1850	1			Rate Only
3.5	Recloser Installation						
3.5.1	Recloser, 11 + 22kV 400A 8kA with IRTU (DDT3180). Install recloser, control box & IRTU supplied as free issue from Eskom. Transport to site, load/offload, safe storage, install on appropriate structure and secure as required including termination of cables and conductors provision of suitable lugs & glands for all size cables as required. Supply and install surge arrestors & links (200A load break).	No	1829B	1			Rate Only
3.6	Testing Allowance shall be made for the complete testing and commissioning of the Medium Voltage overhead distribution system						
3.6.1	MV Test (per transformer installation) Ref. SCSASABZ1	No	0311	6			
3.6.2	MV Phasing of line, ensure correct phasing.	Sum	0311	6			
3.7	General						
	Supply and install MV Full tension Joints as per the DDT Standards						
3.7.1	Fox - Line splice	Ea	3228	1			Rate Only
3.7.2	Insulation Co-ordination and Bonding. The unit rate shall allow for the complete installation of a BIL lightning downwire on New and existing structures; including the excavation around the pole, the installation of a 3x3.5mm galvanised BIL downwire, installed down the pole in accordance with the Eskom standard, 03TB-34.	No	310	53			
Amount carried over to next page							

BILL No. 4 - SUPPORT FOR OVERHEAD RETICULATION

Sogoni Phase 2		PRICE (EXC. VAT)					
Item	Description	Unit	DDT	QTY	Supply Rate	Install Rate	Total Price (R)
4.1	Poles and Crossarms Supply and safely store the following poles. Transport to site of works and install pole in excavated hole, including cutting and scaffing, kicking blocks, bonding, treating, etc. Excavations and compaction are measured elsewhere.						
4.1.1	2.5m Wood X-Arm , 120-139mm top diameter	No	0316	70			
4.1.2	4.5m Wood X-Arm, 120-139mm top diameter	No	0318	5			
4.1.3	3.5m Wood X-Arm, 120-139mm top diameter	No	0055	1			
4.1.4	9m Pole, 160-179mm top diameter	No	0055	114			
4.1.5	9m Pole, 180-199mm top diameter	No	0051	12			
4.1.6	10m Pole, 160-179mm top diameter	No	0051	1			
4.1.7	11m Pole, 160-179mm top diameter	No	0051	28			
4.1.8	11m Pole, 180-199mm top diameter	No	0053	24			
4.1.9	12m Pole, 160 - 179mm top diameter	No	0053	0			
4.1.10	2m Pole, 180 - 199mm top diameter	No	0053	0			
4.2	Stays, Flying Stays and Anti-Climbing Devices						
Note	The unit price for a standard stay and an aerial stay shall exclude the wooden poles, but include the stay wire, stay rods, insulators, stay plate, stay guards, bitumastic paint, guy grip dead end, earthing of stay, line splice, precast concrete slabs, pole clamp, nuts bolts and washers etc. The following stays shall be in accordance with the specification and shall include a stay plate						
4.2.1	MV Stay (DDT0341 rev 9, BIL 40kV & 150kV)	No	0341	31			
4.2.2	LV Stay	No	0341	84			
	The following flying stays shall be in accordance with the specifications and shall include poles & excavation.						
4.2.3	MV Flying Stay	No	0343	4			
	The following struts shall be in accordance with the specifications and shall include poles & excavation.						
4.2.4	MV Strut	No	0342	4			
4.16	LV Strut	No	0342	35			
	Amount carried over to next page						

Item	Description	Unit	DDT	QTY	Supply Rate	Install Rate	Total Price (R)
	Amount brought forward from previous page						
4.3	Excavations and Compaction						
Note	The excavations for service connections are measured elsewhere						
	Determination of pole positions, excavate, and supply a mechanical boring device if required. The rate shall include backfilling, compaction to 93% MOD AASHTO density, and where necessary the supply and transportation of suitable ground as may be required to receive the desired compaction, except where cement is specified. Any damage to existing services shall be made good by the Contractor at his own expense and to the approval or the PM(C).						
	Before excavation work begins the Contractor shall evaluate the stability of the ground before excavation begins. Contractor shall use warning signs, positioned next to an excavation within which persons are working or carrying out inspections. Ref CR (11)						
4.3.1	Hole for 9m pole - 1.5m deep - pickable	No	0332	114			
4.3.2	Hole for 9m pole - 1.5m deep - compressor drilling	No	0332	12			
4.3.3	Hole for 10m pole - 1.8m deep - pickable	No	0332	0			
4.3.4	Hole for 10m pole - 1.5m deep - compressor drilling	No	0332	0			
4.3.5	Hole for 11m pole - 1.8m deep - pickable	No	0332	41			
4.3.6	Hole for 11m pole - 1.8m deep - Compressor drilling	No	0332	10			
4.3.7	Hole for 12m pole - 2.0m deep - Compressor drilling	No	0332	0			
4.3.8	Hole for MV stay - 1.8m deep - pickable	No	0350	25			
4.3.9	Hole for MV stay - 1.8m deep - Compressor drilling	No	0350	6			
4.3.10	Hole for LV stay - 1.4m deep - pickable	No	0350	67			
4.3.11	Hole for LV stay - 1.4m deep - compressor drilling	No	0350	17			
4.3.12	Hole for MV strut - 0,5m deep - pickable	No	0342	4			
4.3.13	Hole for MV strut - 0,5m deep - Compressor drilling	No	0342	2			
4.3.14	Hole for LV strut - 1.3m deep - pickable	No	0342	28			
4.3.15	Hole for LV strut - 1.3m deep - compressor drilling	No	0342	7			
4.4	Pole Labels						
	Install labels on all poles in accordance with the specifications including the provision of all fixing materials. Transport from Eskom stores to site to be priced in Preliminary & General 1.3. Labels to the Eskom Standard SCSSCAAP5, TQGHSP05 and TQCSS005. Dynatape, masking tape or Hand written with permanent marker type labels are not to be considered for operational labelling under any circumstances.						
4.4.1	Equipment labels	No	5050	72			
4.4.2	Mosdorfer fuse rating labels (transformers)	No	5050	18			
4.4.3	Fuse - "Warning. Open all fuses before working on line"	No	5050	12			
4.4.4	Transformer Max fuse notification label	No	5050	12			
4.4.5	Feeder Max Fuse notification label	No	5050	12			
4.4.6	Danger Labels (transformers, links, anti-climbings)	No	3202	6			
4.4.7	LV Feeder Labels	No	5050	114			
4.4.8	Pole Top Box Phase Labels	No	5050	90			
	TOTAL : Carried forward to summary						

Item	Description	Unit		QTY	Supply Rate	Install Rate	Total Price (R)
	Amount brought forward from previous page						
4.5	General Items						
4.5.1	Supply and install labels Spiral Vibration Dampers as per the DT Standards						
	Spiral Vibration Dampers (Hare & Fox)	Each	3175	1	R -	R -	Rate Only
	Supply and Install Anti-Climbing Devices as per the latest DDT Standards.						
4.5.2	Anti-Climbing Device as per 05TI09. Including the removal of existing spikes. Galvanised wire per DDT3170. Galvanises staples per DDT3129. Install on trfr str, struts, parallel MV stay wires, recloser str, OOL trfr str, etc, structures where meter boxes or equipment is installed <2m above ground, any str having cable secured by means of strapping <0.5m apart, any climbable pole str, apparatus etc as per DDT standard.	per str	3170	45			
4.45	Supply and Install, where MV & LV Earths are on the same structure, UV protected black PVC pipe of length 1.2m on each earth downwire, cutting the top and bottom of the pipe at 45deg, split the pipe so as to insert the MV/LV earth and installing clout nails at the bottom and top.	per str	1860	6			
TOTAL : Carried forward to summary							

BILL No. 5 - LV OVERHEAD DISTRIBUTION LINES

Sogoni Phase 2		PRICE (EXC. VAT)					
Item	Description	Unit	DDT	QTY	Supply Rate	Install Rate	Total Price (R)
5.1	LV ABC (insulated neutral)						
Note	The LV insulated aerial bundle conductor system shall be in accordance with SABS 1418 and insulated in accordance with SABS 0198 and the Distribution Standard Part 3. Ref. EI-092-LVL						
Note	The unit rate per meter shall include the tensioning and stringing of the bundle in accordance with the sag and stress tables provided by the manufacturer with all plant, equipment and accessories required to erect an LV overhead bundled distribution line i.e. Drum trailer, winch, wind-off pulleys, pulling rope/cable with connection, dynamometer, slide-lock, sheathed synthetic-fibre belt, woven snatch belt, snatch block, tackle, shackle, etc.						
Note	Measured lengths for stringing shall be net line route lengths and unit rates shall include for sag, off-cuts, etc. Supply, safely store and transport to site and string. The conductor will be delivered on sealed drums and adequate allowance shall be made for the correct handling thereof. Ensure correct tooling - D 51 Hydraulic Crimping Tool and dies, a 13mm tube spanner with T – bar, Phase separators, Slings, Wide Grooved Pulleys, Steel Pulling Socks, Pulling Swivels, Rickie, Come-along and Dynamometers.						
5.1.1	Dual phase ABC (35mm ² , 3 core) - Insulated neutral	m	3141	1,871			
5.1.2	Three phase ABC (35mm ² , 4 core) - Bare neutral	m	3141	4366			
5.1.3	Three phase ABC (70mm ² , 4 core) - Bare neutral	m	3141	1.00			Rate Only
5.2	LV STRUCTURES						
	Allow for the assembly of the following LV strain and suspension assemblies in accordance with the specifications shown in the drawings. Including all earthing, drilling of holes and treating of drilled holes. All LV ABC hardware, line connectors, PVC cable ties, nuts, bolts, washers, lock washers shall be allowed for in the appropriate item below. Excluding the supply and planting of poles, stays and struts, which are measured elsewhere. Use strain assembly when crossing roads. Supply and install all the materials as specified for the following:						
5.2.1	LV 2 Phase Insulated ABC Suspension Assembly (0-30°)	No	1149	7			
5.2.2	LV 2 Phase Insulated ABC Terminal Assembly	No	1146	3			
5.2.3	LV 2 Phase Insulated ABC Strain Assembly (0-60°)	No	1147	1			
5.2.4	LV 2 Phase Insulated ABC Strain Assembly (60°- 90°)	No	1148	8			
5.2.5	LV 2 phase insulated/bare neutral ABC T from Intermediate	No	1150	7			
5.2.6	LV 2 phase insulated/bare neutral ABC Intermediate Suspension Assembly	No	1152	1			
	Amount carried over to next page						

Item	Description	Unit		QTY	Supply Rate	Install Rate	Total Price (R)
	Amount brought forward from previous page						
5.4	Earthing of LV Network						
Note	<p>All MV transformer earthing is measured elsewhere and all LV earths per structure are measured with the structure. This section is intended for LV earths at transformers.</p> <p>Allowance shall be made for the testing (including earth loop impedance) of the earth resistance for the entire reticulation system in accordance with the TN-C-S earthing system as defined in the Distribution Standard Part 2 and any earth tests which may be required in terms of the standard and detailed specifications. Use 2 x H-Crimps - neutral connection point.</p>						
5.4.1	LV Earth (Crowsfoot)	No	627	6			
5.5	LV Pole Mounted Service Boxes (Outdoor)						
	<p>Supply and install on a wooden and/or concrete pole a pole mounted distribution box as specified complete with pole mounting brackets, cable ties, PG clamps, miniature circuit breaker(s), neutral, phase and earth bars, insulated copper tails for connecting to LV ABC, insulation piercing connectors and factory installed cable openings. Included shall be the stainless steel strapping and buckles and terminations of the tails onto the LV ABC.</p>						
5.5.1	2-Way pole box , split smart-meter, complete with insulated copper tails, insulation piercing connectors and nylon compression glands, per DDT0180.	No	0929	1			
5.5.2	4-Way pole box, split smart-meter complete with insulated copper tails, insulation piercing connectors and nylon compression glands, per DDT0180.	No	0929	150			
5.6	Testing						
	<p>Allowance shall be made for the testing of each LV ABC distributor on accordance with the project specification. Included shall be the provision of test certificates and all documentation as required.</p>						
5.6.1	LV Test, per zone. Ref. SCSASABZ1	No		6			
	General						
5.37	Supply and install ABC Full tension Joints as per the DT Standards - Dual phase ABC (35mm ²)	Ea	3228	1			Rate Only
5.38	Supply and install ABC Full tension Joints as per the DT Standards - Three phase ABC (35mm ²)	Ea	3228	1			Rate Only
TOTAL : Carried forward to summary							

BILL No. 6 - HOUSE CONNECTIONS							
Sogoni Phase 2				PRICE (EXC. VAT)			
Item	Description	Unit	DDT	QTY	Supply Rate	Install Rate	Total Price (R)
6.1	House Connections Installation, testing, commissioning complete including CoC, IC's, sealing and as built drawing on completion. Includes installation of EMU in PTB, Ready Board, CIU LCD Keypad, Meter Seal and associated accessories. Make good house walls. Poles and excavations are measured elsewhere.						
6.1.1	Type A (7m service pole)	No	0330	50			
6.1.2	Type B - (5m service pole)	No	0361	100			
6.2	Conductor Measured lengths for stringing shall be net line route lengths and unit rates shall include for sag, cut-offs etc.						
6.2.1	6 mm² AIRDAC with Communication Cable	m	0360	4500			
6.3	Ecu's and Passive Bases						
6.3.1	Customer Interface Unit	No		150			
6.3.2	Split-Meter Ready Board	No		150			
6.3.3	Smart Meter Installation (Inc.of all Components)	No		150			
6.4	Sundry Items install pole in excavated hole, including cutting and scaffing, kicking bolts,						
6.4.1	5m pole, 80-100mm top diameter	No	0330	150			
6.4.2	7m Pole, 100-120mm top diameter	No	0330	50			
6.4.3	Install 'Unique Seals' and record on Control Sheet and PCS file. Two seals per unit.	No		150			
6.4.4	Submit populated Control Sheet and PCS CorDaptix information to the Project Engineer upon the successful energising of a customer. Payment will only be made	No		150			
6.5	Excavations and Compaction Determination of pole positions, excavate, and supply a mechanical boring device if required. The rate shall include backfilling, compaction to 93% MOD AASHTO density, and where necessary the supply and transportation of suitable ground as may be required to receive the desired compaction, except where cement is specified. Any damage to existing services shall be made good by the Contractor at his own expense and to the approval or the PM(C).						
6.5.1	Hole for 5m service pole - 1.0m deep	No	0330	150			
6.5.2	Hole for 7m service pole - 1.3m deep	No	0330	50			
6.7	Data Concentor Equipment						
6.7.1	Kisok Meter/ 3Phase /kVA/Data Concentrator	No		6			
6.7.2	IDC 450 G3; PLC DC (Internal Modem)	No		6			
6.7.3	Buckle, Strap 12 C254 D3110	No		30			
6.7.4	Strap, Tie Down: WD 12mm x THK 0.75mm	No		6			
6.7.5	Cable End 4-25mm² D3148	No		12			
6.7.6	Cale Elect: 1 KV / 4C / CU / 4mm² / STL Wire	No		12			
6.7.7	Gland; Cable : Adjustable; No 1; BRS CD PLTD	No		6			
6.7.8	Padlock: Master Steel Restr-A Orange D6050	No		6			
TOTAL : Carried forward to summary							

FINAL SUMMARY		
Electrification of Sogoni Phase 2		PRICE (EXCL VAT)
Item	Description	Total
1	PRELIMINARY AND GENERAL	
2	MEDIUM VOLTAGE SWITCHGEAR, SECTIONALISERS, TRANSFORMERS, ETC.	
3	MEDIUM VOLTAGE OVERHEAD DISTRIBUTION SYSTEM	
4	SUPPORT FOR OVERHEAD RETICULATION	
5	LOW VOLTAGE OVERHEAD DISTRIBUTION LINES	
6	HOUSE CONNECTIONS	
7	SUB TOTAL A	
8	CONTRACT CONTINGENCY AMOUNT (10% of SUB-TOTAL)	
9	SUB TOTAL B	
10	ADD 15% VAT	
11	TOTAL AMOUNT	