

BILL NO 1 - PRELIMINARY AND GENERAL						
MOYENI ELECTRIFICATION			ENQUIRY NO:		81/1/14/23 - TEC14/2021	
Item	Description	Detail Reference	Unit	Qty	Supply Rate	Total Price @
	Conditions of Contract					
1.1	Compliance with all the contractual requirements of the contract, including project programming, outage management, weekly progress reporting, materials management, meetings and quality & environmental management.		Item	1		R -
	Site Store and Office					
1.2	Establish facilities on site. The Contractor shall provide a fenced space with fence at least 1.8m high with a lockable gate for a temporary Site Office and Stores where all drawings and Specifications will be kept, as well as the provision of safe and ad					
	Facilities for Contractor :					
1.2.1	a) Offices & storage sheds		Item	1		R -
1.2.2	b) Establishment of staff accommodation, office accommodation on site for site meetings and a Clerk of Works including office furniture and telephone / telefax as specified and facilities.		Item	1		R -
1.2.3	c) Ablution & latrine facilities		Item	1		R -
1.2.4	d) Tools & equipment		Item	1		R -
1.2.5	e) Water supplies, electric power & communications		Item	1		R -
1.2.6	Other fixed charge obligations. Specify		Item	1		R -
1.2.7	Removal of all items indicated above upon completion of construction and making good and restoring of the Site to the satisfaction of the Project Manager.		Sum	1		R -
1.3	Provision of "As Built" drawings.		Sum	1		R -
1.4	Construction Name Board - The Contractor shall place and maintain one project signboard bearing the name of the project, the name and logo of Hibiscus Coast Municipality and the Contractor.		Sum	1		R -
1.5	Provision of samples of materials to be used (only materials supplied by contractor).		Sum			
1.6	Provision for the compilation of the Construction Programme, to be done in MS Project and updated on a fortnight basis and Quality Assurance Programme for the works.		Sum	1		R -
1.7	Occupational Health & Safety Requirements					
1.7.1	Provision for Legal and Contractual Compliance.		Item	1		R -
1.7.2	Provision of personal protective equipment and clothing for all the contractor's staff, including sub-contractors.		Item	1		R -
1.7.3	Provision of safety measures, e.g.. Fall arrest systems, shoring for safety purposes etc.		Item	1		R -
1.7.4	Compliance with OH&S Act & Construction Regulations.		Item	1		R -
1.7.5	Provision for compliance with Covid-19 Regulation Requirements as laid out in the Disaster Management Act.		Item	1		R -
1.8	Compliance with the Requirements for the Expanded Public Works Programme					
	Note: The reports are to be submitted with the contractors monthly invoice.		Item	4		R -
1.8.1	Provision for Community Liason Officer (CLO) for the full duration of the project. This item shall lapse upon physical completion and de-establishment of site. CLO shall ensure Site Supervisor signs Daily Register to prove his/her attendance.		Item	4		R -
1.8.2	Allowance to comply with Skills Transfer/Student Training Programme as per requirement of the contract. (This lump sum shall be divided and paid in accordance to the number of months allocated to the project)		Item	4		R -
1.9	Materials					
1.9.1	The Contractor shall make allowance to receive, transport to site, off load and stack the free-issue materials supplied to the contract. The rate shall also include the implementation and maintenance Management System for the duration of the contract.		Sum	1		R -
1.9.2	On Completion of the project, all unused supplied free issue materials shall be reconciled and qualified. Once authorised by the Consultant/Project Co-ordinator, the unused materials shall be transported to Client stores using the correct		Sum	1		R -
1.10	Contract management and full time supervision of the works. The Supervisor shall submit a signed register to the Consultant on weekly basis, to prove that he/she has been on site every day.		Sum	1		R -
1.11	Security					
	Contractor shall provide security guard/s to ensure the site including offices, storage sheds and all material are protected from theft or any damage. The Contractor needs to ensure that the above mentioned is guarded 24hrs a day.		Sum	4		R -
	4x2 Single Cab		day	120		R -
	4X4 Double Cab		day	0		R -
	Crane truck		day	30		R -
	Crew Cab		day	30		R -
	TOTAL : Carried forward to summary					R -

BILL NO 2 - MEDIUM VOLTAGE SWITCHGEAR, SECTIONALISERS, TRANSFORMERS, ETC									
MOYENI ELECTRIFICATION				PRICE (EXCL VAT)					
Item	Description	DDT Ref.	Unit	Quantity	Supply Rate	Supply Total	Install Rate	Install Total	Total Price (R)
	Transformers (Coastal Spec.) - pole mounted								
	Installation of new 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.								
2.1	Transformer 32kVA, 22kV	3021	No	3		R -		R -	R -
2.2	Transformer 64kVA, 22kV	3023	No	3		R -		R -	R -
	Sectiono Breaker								
2.3	Supply and delivery and safely store on site Section Breaker and Control Box as supplied from supplier. Transport to site and install as per Eskom DT Standards. All civil work to be included. Cable terminations and earthing are included.								
	Auto Recloser, 11kV Inland Specification					R -		R -	R -
	Miniature Substations and Plinths								
	Supply and delivery and safely store on site miniature substations and pre-cast plinths as supplied from supplier. Transport to site and install as per Eskom DT Standards. All civil work to be included. Cable terminations and earthing are measured elsewhere.								
2.4	M/SUB 200kVA 11kV/415V A FH CSTL D8053	8053	No			R -		R -	R -
2.5	M/SUB 315kVA, 11kV/415V, Type B FH CSTL	8050	No			R -		R -	R -
2.6	Plinth Pre-cast Type A M/SUB	8025	No			R -		R -	R -
2.7	Plinth Pre-cast Type B M/SUB	8025	No			R -		R -	R -
	Ring Main Units and Plinths								
	Take delivery of and safely store on site ring main units and precast plinths from supplier. Transport to site and install as per Eskom DT Standards. All civil work to be included. Cable terminations and earthing are measured elsewhere.								
2.8	RMU 11kV 630A 3R N/EXT CSTL	8060	No			R -		R -	R -
2.9	Plinth Pre-cast 11+22kV 3 SF6 RMU	8025	No			R -		R -	R -
	Sealant Strip								
	Install sealant strip between the mini-sub base and the top surface of the plinth.								
2.10	Sealant Strip	8029	m			R -		R -	R -
	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.								
2.11	Section Links, Single Pole (3.5m X-arm) (Three phase)	1847	No	0		R -		R -	R -
2.12	Section Links, Single Pole (2.5m X-arm) (Three phase)	1848	No	3		R -		R -	R -
2.13	Equipment Links, Single Pole (2.5m X-arm) (Three Phase)	1849	No	1		R -		R -	R -
2.14	Dual Phase Solid Links (Including 1866B Structures)	1848	Set of 2	0		R -		R -	R -
	Neutral Surge Arrestors								
	Supply and install a LV surge arrestor including lugs and galvanised bolts.								
2.15	6kV, 10kA Surge Arrestor	1860	No	6		R -		R -	R -
	Amount carried over to next page					R -		R -	R -

BILL NO 2 - MEDIUM VOLTAGE SWITCHGEAR, SECTIONALISERS, TRANSFORMERS, ETC									
MOYENI ELECTRIFICATION									
				PRICE (EXCL VAT)					
Item	Description	DDT Ref	Unit	Quantity	Supply Rate	Supply Total	Install Rate	Install Total	Total Price (R)
	Amount brought forward from previous page					R -		R -	R -
	MV 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. NOTE: Two sets of surge arrestors per transformer bushing inclu support bracket and accessories.								
2.16	11kV, 10kA Surge arrestors	3100	No	6		R -		R -	R -
2.17	22kV, 10kA Surge arrestors	3100	No	4		R -		R -	R -
	Transformer 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.								
2.18	MV Earth	1860	No	6		R -		R -	R -
	Minisub & RMU Earthing								
	Supply and install all materials for the complete 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, excavations, backfilling, etc. in accordance with the Eskom DT Standards. Additional earth spikes shall be measured elsewhere if required. LV earths measured elsewhere.								
2.19	MV Earths for Minisubs without continuous earthing to source substation	855 Sht1	No			R -		R -	R -
2.20	MV Earths for RMUs without continuous earthing to source substation	865 Sht2				R -		R -	R -
	TOTAL : Carried forward to summary					R -		R -	R -

BILL NO 3 - MEDIUM VOLTAGE OVERHEAD DISTRIBUTION SYSTEM										
MOYENI ELECTRIFICATION					PRICE (EXCL VAT)					
Item	Description	DDT Ref	Unit	Quantity	Supply Rate	Supply Total	Install Rate	Install Total	Total Price (R)	
	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.									
	Fox									
3.1	Dual Phase		m	0		R -		R -	R	-
3.2	Three Phase		m	10 000		R -		R -	R	-
	MV Cable									
	Supply and deliver and safely store on site MV cable as supplied from supplier. Transport to site and install as per Eskom Standards and DDT 0854.									
3.3	Cable 11kV 3C 95SQ Cu (XLPE Type A)	8001	No			R -		R -	R	-
3.4	Cable 11kV 3C 50SQ Cu (XLPE Type A)	8001	No	0		R -		R -	R	-
3.5	Cable 11kV 3C 185SQ Cu (XLPE Type A)	8001	No			R -		R -	R	-
	MV Cable Terminations									
	Supply and install indoor trifurcating kits and screened separable connector for the termination of MV cables in minisubs and RMUs as per Eskom DT Standards									
3.6	Trifurcating Kit, SCR 11kV 3C 25-50sq ID XLPE	8017	No	0		R -		R -	R	-
3.7	Trifurcating Kit, SCR 11kV 3C 70-185sq ID XLPE	8017	No	0		R -		R -	R	-
3.8	Connector, SEP SCR CBL 1 11kV 25-50sq	8017	No	0		R -		R -	R	-
3.9	Connector, SEP SCR CBL 1 11kV 70-185sq	8017	No	0		R -		R -	R	-
	MV Cable Joints									
	Supply and install joint kits for jointing of all MV cables as per Eskom DT Standards, including joint bays.									
3.10	Joint Kit 3C 11kV 95-240SQ XLPE	8008	No	0		R -		R -	R	-
3.11	Joint Kit 3C 11kV 25-50SQ XLPE	8008	No	0		R -		R -	R	-
	Railway, Road and Driveway Crossings									
	Allow for railway, road and driveway crossings as indicated below. Included are cutting and/or removal of hardened surfaces, excavations to required depth, 160NBx3.2mm wall thickness PVC pipes (number of per crossing as indicated on drawing), backfilling and reinstatement of hardened surfaces to at least as good a condition as before removal.									
	Railway Crossings									
3.12	Pipe Jacking - Drilling with sleeves, 160mm dia		m	0				R -	R	-
3.13	Digging of pits (1.5m x1.5m)		No	0				R -	R	-
	Amount carried over to next page					R -		R -	R 0,00	

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MOYENI ELECTRIFICATION					PRICE (EXCL VAT)					
Item	Description	DDT Ref	Unit	Quantity	Supply Rate	Supply Total	Install Rate	Install Total	Total Price (R)	
	Amount brought forward from previous page					R -		R -	R -	
	Road Crossings									
3.14	Pipe Jacking - Drilling with sleeves, 160mm dia		No	0		R -		R -	R -	
3.15	Digging of pits (1.5m x1.5m)		m	0		R -		R -	R -	
3.16	Tar road		m	0		R -		R -	R -	
3.17	Gravel road		m	0		R -		R -	R -	
	Driveway Crossings									
3.18	Paved driveway crossings		m	0		R -		R -	R -	
3.19	Tar driveway crossings		m	0		R -		R -	R -	
3.20	Concrete driveway crossings		m	0		R -		R -	R -	
3.21	Gravel driveway crossings		m	0		R -		R -	R -	
	Inspection Excavations									
	Manual inspection excavations along MV cable route in development									
3.22	to locate other services - excavate from stand boundary to road edge, 3m length (on average) x 0,5m width x 1m depth (Provisional)		Sum	0		R -	R -	R -	R -	
3.23	MV Cable Trenching									
	Allow for MV (and LV cables parallel to MV) cable trenching as detailed on the drawings (1m away from property boundaries).									
	Excavation and levelling of cable trenches as per Eskom DT									
	Standards & DDT 0854. Any services (e.g. other cables, water pipes, etc.) damaged by the Contractor shall be made good by him at his own cost. Crossings and trench back filling									
	measured elsewhere.									
3.23.1	Soft & intermediate material (Excavate by pick & shovel or machine)	854	m	0				R -	R -	
3.23.2	Hard Rock (Excavate by wedging and splitting or blasting)								R -	
	(Provisional Extra Over Quantity)	854	m	0				R -	R -	
3.24	Joint Bay								R -	
3.24.1	Allow for Joint Bays (2m x 1.5m x 1.2m)		No	0				R -	R -	
3.25	Back Filling									
3.25.1	Trim trench bottom in hard material or rock and place, smooth and compact sand or approved sifted soil (5mm mesh) bedding 150mm deep (included is the procuring and carting to site of bedding material)	854	m	0				R -	R -	
3.25.2	Place, smooth and hand compact sand or approved sifted soil (12mm) blanket 250mm deep after cable has been laid (included is the procuring and carting to site of blanket material). Backfill and consolidate trenches to Eskom's specification.	854	m	0		R -		R -	R -	
3.26	Concrete Slabs									
	Supply, deliver and install pre-cast concrete slabs as cover and /or separator slabs for MV cable in close proximity to other services as per DDT 0854									
	Amount carried over to next page					R -		R -	R -	

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MOYENI ELECTRIFICATION					PRICE (EXCL VAT)				
Item	Description	DDT Ref	Unit	Quantity	Supply Rate	Supply Total	Install Rate	Install Total	Total Price (R)
	Amount brought forward from previous page					R -		R -	R -
3.26.1	Concrete slabs, pre-cast cable cover (760 x 200 x 50) (Provisional)	8076	m2	0		R -		R -	R -
3.27	Warning Tape								
	Supply, deliver and install PVC cable cover sheeting 550mm above MV cable as per DDT 0854								
3.27.1	Cable cover, PVC ORG/BLK 450Wx 300m	8013	m	0		R -		R -	R -
3.28	Cable Route Markers								
3.28.1	Supply, deliver and install concrete cable route markers directly above the cable at each bend, joint, road crossing and 150m apart along straight sections. Markers to be installed 250mm below NGL. Marker cable route concrete	8012	No	0		R -		R -	R -
3.29	Repair Of Hardened Surfaces								
	Allow for the reinstatement of the following hardened surfaces along the MV (and LV cables parallel to the MV) cable route (excluding road and driveway crossings) to at least as good a condition as before removal.								
3.29.1	Paving		m	0		R -		R -	R -
3.29.2	Tar		m	0		R -		R -	R -
3.29.3	Concrete		m	0		R -		R -	R -
3.29.4	Concrete slabs		m	0		R -		R -	R -
3.29.5	Excess material		m	0		R -		R -	R -
3.30	Labels								
3.30.1	Install labels on all minisubs and RMUs in accordance with Eskom's latest specifications as per the Eskom DT Standard, including the provision of all fixing materials.		No	0		R -		R -	R -
3.31	Equipment Labels & Danger Notices								
	Supply and install labels at cable termination points on switchgear, as well as on MV cable ends, including the provision of all fixing materials.								
3.31.1	Labels on switchgear		No	0		R -		R -	R -
3.31.2	Labels on both MV cable ends (150mm x 25mm x 0.9mm Al plate)	3049	No	0		R -		R -	R -
3.32	MV Cable Testing & Hand Over								
	Allow for the complete testing and assistance with the commissioning of the MV underground system by Eskom, municipality Supply authority, including earth readings, feeder continuity tests, cable pressure tests, phasing, etc. Also included are test certificates and all documentation hand-over the system.								
3.32.1	Test and commission MV U/G system		No	0				R -	R -
3.33	MV Miniature Substation Testing								
	Allow for the complete testing and assistance with the commissioning of the Miniature Substation in accordance to DST 34-1175.								
3.33.1	Test and commission Miniature Substation		No	0		R -		R -	R -
	Amount carried over to next page					R -		R -	R 0,00

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Item	Description	DDT Ref	Unit	Quantity	Supply Rate	Supply Total	Install Rate	Install Total	Total Price (R)
	Amount brought forward from previous page					R -		R -	R 0,00
3.34	Transformer 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 one MV earth electrode only, consisting of four earth spikes in accordance with the specifications. Additional earth spikes/conductor shall be measured elsewhere if required		No	6		R -		R -	R -
3.35	Medium Voltage Structures								
	Allow for the following structures and insulator								
	assemblies in accordance with the specifications as shown in the drawings. Include the drilling of holes and treating of such holes, the provision of the Unails and earthwire in accordance with Eskom								
	specifications. The 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.								
	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.								

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Item	Description	DDT Ref	Unit	Quantity	Supply Rate	Supply Total	Install Rate	Install Total	Total Price (R)	
	3 PHASE STRUCTURES General Arrangement									
3.35.3	Delta / 2,5m Wood X-arm - Intermediate - 0° Deviation	1740B	No	11		R -		R -	R -	
3.35.4	Delta / 2,5m Wood X-arm - Intermediate - 0° Deviation (RX)	1740BRX	No	0		R -		R -	R -	
3.35.5	Delta / 2,5m Wood X-arm - Strain - 0° Deviation	1743	No	6		R -		R -	R -	
3.35.6	Delta / 2,5m Wood X-arm - Strain - 0° Deviation (RX)	1743RX	No	0		R -		R -	R -	
3.35.7	Delta / 2,5m Wood X-arm - Strain - Medium(1°-60°) Deviation	1744	No	7		R -		R -	R -	
3.35.8	Delta / 2,5m Wood X-arm - Strain - Medium(1°-60°) Deviation (RX)	1744RX	No	0		R -		R -	R -	
3.35.9	Delta / 2,5m Wood X-arm - Strain - Terminal	1746	No	1		R -		R -	R -	
	Amount carried over to next page					R -		R -	R 0,00	

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	Amount brought forward from previous page					R -		R -	R -
3.35,10	3 Phase Take-off - 2.5m Wooden X-arm	1804	No	2		R -		R -	R -
3.35,20	Links measured elsewhere	1866B	No	1		R -		R -	R -
3.35,21	Transformer - 4 pole platform mount - Out of line (100kVA								
3.35,22	- 200kVA)	1865B	No	0		R -		R -	R -
3.36	Recloser Installation								
	Supply, deliver, off load on site and safely store a recloser with platform and control box. Transport to site of works and install recloser unit and control box on platform structure and secure as required including termination of cables and/or conductors. Structure measured elsewhere.								
3.36.1	11kV Recloser complete with platform and control box	1829B	No	0		R -		R -	R -
3.37	Testing								
	Allowance shall be made for the complete testing and commissioning of the Medium Voltage overhead distribution system								
3.37.1	MV Test (per transformer installation) Ref. SCSASABZ1		No	1				R -	R -
3.37.2	MV Phasing of line, ensure correct phasing.	0311	No	0				R -	R -
3.38	General								
	Supply and install MV Full tension Joints as per the DDT Standards								
3.38.1	Insulation Co-ordination and Bonding. The unit rate shall allow for the complete installation of a BIL lightning downwire on 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.	0310	Ea	20		R -		R -	R -
	TOTAL : Carried forward to summary					R -		R -	R -

BILL NO 4 - SUPPORT FOR OVERHEAD RETICULATION									
MOYENI ELECTRIFICATION				PRICE (EXCL VAT)					
Item	Description	DDT Ref	Unit	Quantity	Supply Rate	Supply Total	Install Rate	Install Total	Total Price (R)
4.	Poles and Crossarms								
	Supply and safely store the following poles. Transport to site of works and install pole in excavated hole, including cutting and scaffolding, kicking blocks, bonding, treating, etc. Excavations and compaction are measured elsewhere.								
4.1.1	7m Pole, 140-160mm top diameter	0050	No	198		R -		R -	R -
4.1.2	9m Pole, 140-160mm top diameter	0055	No	10		R -		R -	R -
4.1.4	10m Pole, 200-220mm top diameter	0055	No	1		R -		R -	R -
4.1.5	11m Pole, 160-179mm top diameter	0051	No	11		R -		R -	R -
4.1.6	11m Pole, 180-199mm top diameter	0051	No	13		R -		R -	R -
4.1.7	Pole, Wood 11,0m x 200-220 Top Dia.	0051	No	1		R -		R -	R -
4.1.8	Pole, Wood 12,0m x 160-179 Top Dia.	0053	No	0		R -		R -	R -
4.1.8	Pole, Wood 12,0m x 180-199 Top Dia.	0053	No	0		R -		R -	R -
4.1.9	Pole, Wood 12,0m x 200-219 Top Dia.	0053	No	0		R -		R -	R -
4.1.11	Pole, Wood 13,0m x 160-179 Top Dia.	0053	No			R -		R -	R -
4.1.10	Pole, Wood 13,0m x 200-219 Top Dia.	0053	No	0		R -		R -	R -
4.1.13	Pole, Wood 14,0m x 180-199 Top Dia.	0054	No	0		R -		R -	R -
4.2	Supply, off load and install the following wooden cross arms.								
4.2.1	X- arm, Wood 2.5m, 140-159mm Diameter	0061	No	28		R -		R -	R -
4.2.2	X-arm, Wood 3.5m x 140-159 Top Dia	0061	No	0		R -		R -	R -
4.2.3	X-arm, Wood 4.5m x 140-159 Top Dia		No	0		R -		R -	R -
4.2.4	X-arm, Wood 6m, 160-179mm Diameter		No	1		R -		R -	R -
4.3	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								
4.3.1	MV Stay (DDT0341 rev 9, BIL 40kV & 150kV)	0341	No	36		R -		R -	R -
4.3.2	LV Stay	0341	No	241		R -		R -	R -
	The following flying stays shall be in accordance with the specifications and shall include poles & excavation.								
4.3.3	MV Flying Stay	0343	No	0		R -		R -	R -
4.3.4	LV Flying Stay	0343	No	0		R -		R -	R -
	The following struts shall be in accordance with the specifications and shall exclude poles & excavation.								
4.3.5	MV Strut	0342	No	0		R -		R -	R -
4.3.6	LV Strut	1167	No	18		R -		R -	R -
	Amount carried over to next page					R -		R -	R -

BILL NO 4 - SUPPORT FOR OVERHEAD RETICULATION									
Item	Description	DDT Ref	Unit	Tender Quantity	Supply Rate		Install Rate		Total Price (R)
MOYENI ELECTRIFICATION									
	Amount brought forward from previous page					R	-	R	-
4.4	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)								
4.4.1	Hole for 7m pole - 1.3m deep - pickable	0332	No	149			R	-	R -
4.4.2	Hole for 7m pole - 1.3m deep - compressor drilling	0332	No	50			R	-	R -
4.4.3	Hole for 9m pole - 1.5m deep - pickable	0332	No	8			R	-	R -
4.4.4	Hole for 9m pole - 1.5m deep - compressor drilling	0332	No	3			R	-	R -
4.4.5	Hole for 10m pole - 1.6m deep - pickable	0332	No	1			R	-	R -
4.4.6	Hole for 10m pole - 1.6m deep - compressor drilling	0332	No	0			R	-	R -
4.4.7	Hole for 11m pole - 1.8m deep - pickable	0332	No	19			R	-	R -
4.4.8	Hole for 11m pole - 1.8m deep - Compressor drilling	0332	No	6			R	-	R -
4.4.9	Hole for 12m pole - 2.0m deep - pickable	0332	No	0			R	-	R -
4.4.10	Hole for 12m pole - 2.0m deep - Compressor drilling	0332	No	0			R	-	R -
4.4.11	Hole for 13m pole - 2.2m deep - pickable	0332	No	0			R	-	R -
4.4.12	Hole for MV stay - 1.5m deep - pickable	0350	No	27			R	-	R -
4.4.13	Hole for MV stay - 1.5m deep - Compressor drilling	0350	No	9			R	-	R -
4.4.14	Hole for LV stay - 1.4m deep - pickable	0350	No	181			R	-	R -
4.4.15	Hole for LV stay - 1.4m deep - compressor drilling	0350	No	60			R	-	R -
4.4.16	Hole for MV strut - 1.8m deep - pickable	0342	No	0			R	-	R -
4.4.17	Hole for LV strut - 1.3m deep - pickable	0342	No	0			R	-	R -
4.4.18	Hole for LV strut - 1.3m deep - compressor drilling	0342	No	5			R	-	R -
4.5	Pole Labels								
	Install labels on all poles in accordance with the specifications including the provision of all fixing materials. Transport site to be priced in Preliminary & General 1.9.1 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.								
4.5.1	Equipment labels		No	8		R	-	R	-
4.5.2	Mosdorfer fuse rating labels (transformers)		No	1		R	-	R	-
4.5.3	Fuse - "Warning. Open all fuses before working on line"		No	1		R	-	R	-
4.5.4	Transformer Max fuse notification label		No	1		R	-	R	-
4.5.5	Feeder Max Fuse notification label		No	1		R	-	R	-
4.5.6	Danger Labels (transformers, links, anti-climbings)	3202	No	25		R	-	R	-
4.5.7	LV Feeder Labels		No	1		R	-	R	-
4.5.8	Pole Top Box Phase Labels		No	200		R	-	R	-
4.6	General Items								
4.6.1	Supply and install bird flight diverter		Each	240		R	-	R	-
4.7	Supply and install labels Spiral Vibration Dampers								
4.7.1	Spiral Vibration Dampers (Hare, Oak & Fox)	3175	Each	220		R	-	R	-
	Amount carried over to next page					R	-	R	-

BILL NO 4 - SUPPORT FOR OVERHEAD RETICULATION									
MOYENI ELECTRIFICATION									
PRICE (EXCL VAT)									
Item	Description	DDT Ref	Unit	Quantity	Supply Rate	Supply Total	Install Rate	Install Total	Total Price (R)
	Amount brought forward from previous page					R -		R -	R -
4.8	Supply and Install Anti-Climbing Devices as per the latest DDT Standards.								
4.8.1	Anti-Climbing Device as per 05T109. 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.	0399	per str	8		R -		R -	R -
4.8.2	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	6		R -		R -	R -
4.9	Concrete								
	Ready mix concrete slabs for pole bases as required								
4.9.1	Concrete bases		No	0		R -		R -	R -
	Supply and mix cement on site into material excavated from pole hole, including the provision of water to ensure the correct moisture content of the backfill material.								
4.9.2	Cement mixture per hole		No	0		R -		R -	R -
4.10	Line Route Clearing								
	Clearing of trees from a servitude, including the stacking or disposal of cuttings and debris, as directed by eskom, and the poisoning of stumps with an approved poison. The contractor is to use Eskom approved contractors.								
4.10.1	Dense bush(thin dense blackwattles, thornbush or brambles- not possible to walk through) MV 12 meter wide strip (6m either side of the centre line) to be cleared and poisoned.		m	15				R -	R -
4.10.2	Ditto, but for LV 1m wide strip and no poisoning required		m	15				R -	R -
4.10.3	Small trees (less than 30cm diamter scattered bush or plantation-accessible on foot) MV 12m wide strip (6m on either side of the line) to be cleared and poisoned		m	15				R -	R -
4.10.4	Ditto, but for LV 1m wide strip and no poisoning required		m	10				R -	R -
4.10.5	Large trees (greater then 30cm diameter) including poisoning		No	10				R -	R -
4.10.6	Bush clearing and tree cutting permits license (All permits and licenses required for bush clearing and tree cutting). Obtaining of permits and licenses is the responsibility of the contractor.		No	10				R -	R -
4.11	Survey								
	Set out pole and stay positions as indicated on rough detail sketches by tape measure and sighting rods where survey was not done by Eskom; per peg		No	529				R -	R -
	TOTAL : Carried forward to summary					R -		R -	R -

BILL NO 5 - LV OVERHEAD DISTRIBUTION LINES									
MOYENI ELECTRIFICATION									
PRICE (EXCL VAT)									
Item	Description	DDT Ref	Unit	Quantity	Supply Rate	Supply Total	Install Rate	Install Total	Total Price (R)
5.	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	Three phase ABC (35mm ² 4 core) - insulated neutral	3141	m	5 500		R -		R -	R -
5.1.2	Dual phase ABC (35mm ² , insulated neutral)		m	591		R -		R -	R -
5.1.3	Dual phase ABC (70mm ² , insulated neutral)		m	0		R -		R -	R -
5.1.4	Three phase ABC (70mm ² , insulated neutral)		m	0		R -		R -	R -
5.1.5	Single phase ABC (35mm ² , 2 core) - insulated neutral	3141	m	11 230		R -		R -	R -
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	Single Phase ABC Intermediate Assembly	1153	No	67		R -		R -	R -
5.2.2	Single Phase ABC Terminal Assembly	1154	No	87		R -		R -	R -
5.2.3	Single Phase ABC Strain Assembly (0-60 deg)	1155	No	22		R -		R -	R -
5.2.4	Single Phase ABC Strain Assembly (60-90 deg)	1156	No	7		R -		R -	R -
5.2.5	Single Phase ABC Tee from Intermediate	1157	No	34		R -		R -	R -
5.2.6	Single Phase ABC Tee from Strain	1159	No	60		R -		R -	R -
5.2.7	Single Phase ABC Cross intermediate	1160	No	0		R -		R -	R -
5.2.15	Three Phase ABC Intermediate Assembly	1100	No	26		R -		R -	R -
5.2.16	Three Phase ABC Terminal Assembly	1120	No	19		R -		R -	R -
5.2.17	Three Phase ABC Strain Assembly (0-60 deg)	1121	No	11		R -		R -	R -
5.2.18	Three Phase ABC Strain Assembly (60-90 deg)	1122	No	8		R -		R -	R -
5.2.19	Three Phase ABC Tee from Intermediate	1140	No	0		R -		R -	R -
5.2.20	Three Phase ABC Tee from Strain	1142	No	11		R -		R -	R -
5.2.21	Three Phase ABC Cross intermediate	1141	No	17		R -		R -	R -
5.2.22	Three Phase ABC Cross intermediate	1143	No	0		R -		R -	R -
	Amount carried over to next page					R -		R -	R -

BILL NO 5 - LV OVERHEAD DISTRIBUTION LINES									
MOYENI ELECTRIFICATION				PRICE (EXCL VAT)					
Item	Description	DDT Ref	Unit	Quantity	Supply Rate	Supply Total	Install Rate	Install Total	Total Price (R)
BILL NO 5 - LV OVERHEAD DISTRIBUTION LINES									
MOYENI ELECTRIFICATION				PRICE (EXCL VAT)					
Item	Description	DDT Ref	Unit	Tender Quantity	Supply Rate	Supply Total	Install Rate	Install Total	Total Price (R)
	Amount brought forward from previous page				R	-		R	-
5.3	LV Fuse Switch Units								
	Supply, deliver to site, off load on site and safely store. The fused switch shall be supplied complete with the pole mounting bracket, nuts, bolts, washers, etc. for securing the unit to the wooden pole. The fuses shall be supplied with the fuse switch unit. Fuse ratings shall be as shown on the drawings. Install the on load fused disconnecting switch on the transformer structure including the drilling of holes as required, including the termination of the LV ABC to the unit. Fuse ratings below allow for 120% overload.								
	One fuse unit is for the transformer and one unit per LV feeder for isolation/protection.								
5.3.1	160A Three Phase Load disconnecting switch MORSDORPHER 63A Fuse	0309	No	15		R	-	R	-
5.3.2	160A Load disconnecting switch with MORSDORPHER 80A fuse		No	12		R	-	R	-
5.3.3	160A Load disconnecting switch with MORSDORPHER 125A fuse		No	0		R	-	R	-
	Amount carried over to next page				R	-		R	-

BILL NO 5 - LV OVERHEAD DISTRIBUTION LINES									
MOYENI ELECTRIFICATION									
PRICE (EXCL VAT)									
Item	Description	DDT Ref	Unit	Quantity	Supply Rate	Supply Total	Install Rate	Install Total	Total Price (R)
BILL NO 5 - LV OVERHEAD DISTRIBUTION LINES									
MOYENI ELECTRIFICATION									
PRICE (EXCL VAT)									
Item	Description	DDT Ref	Unit	Tender Quantity	Supply Rate	Supply Total	Install Rate	Install Total	Total Price (R)
	Amount brought forward from previous page					R -		R -	R -
5.4	Earthing of LV Network								
Note	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.								
	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.								
5.4.1	LV Earth (Crowsfoot)	0627	No	6		R -		R -	R -
	LV Pole Mounted Service Boxes (Outdoor)								
	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.								
5.4.2	2-4. York type box, complete with insulated copper tails, insulation piercing connectors and nylon compression glands, per DDT0180.	3055	No	30		R -		R -	R -
5.4.3	1-4. York type box, complete with insulated copper tails, insulation piercing connectors and nylon compression glands, per DDT0180.		No	170		R -		R -	R -
5.4.4	4-8. York type box, complete with insulated copper tails, insulation piercing connectors and nylon compression glands, per DDT0180.		No	0		R -		R -	R -
5.5	Testing								
	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.								
5.5.1	LV Test, per zone. Ref. SCSASABZ1		No	6				R -	R -
5.6	General								
5.6.1	Supply and install ABC Full tension Joints as per the DT Standards - Dual phase ABC (35mm ²)		Ea	50		R -		R -	R -
5.6.2	Supply and install ABC Full tension Joints as per the DT Standards - Three phase ABC (35mm ²)		Ea	50		R -		R -	R -
	TOTAL : Carried forward to summary					R -		R -	R -

BILL NO 6 - HOUSE CONNECTIONS:									
MOYENI ELECTRIFICATION					PRICE (EXCL VAT)				
Item	Description	DDT Ref	Unit	Quantity	Supply Rate	Supply Total	Install Rate	Install Total	Total Price (R)
7.	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.								
7.1	Type A	0360	No	30		R -		R -	R -
7.1.1	Type B - (service pole)	0361	No	200		R -		R -	R -
7.2	Conductor								
Note	Measured lengths for stringing shall be net line route lengths and unit rates shall include for sag, cut-offs etc.								
	Installation including all glands, lugs, shrouds, termination and connections as required. Include safe storage, transport to site and stringing. Connect power (L-N) from EMU to Ready Board (E/L & MCB) and Comms pair from EMU to CIU.								
7.2.1	10 mm² AIRDAC		m	0		R -		R -	R -
7.2.2	6 mm² AIRDAC		m	11 000		R -		R -	R -
7.3	Ecu's and Passive Bases								
7.3.1	CUSTOMER INTERFACE UNIT(CIU) L&G WS		No	200		R -		R -	R -
7.3.2	METER, SPLIT DIN RAIL 20A WS		No	200		R -		R -	R -
7.3.3	ReadyBoard, Split meter 2x16A SKTS D317			200		R -		R -	R -
7.4	Sundry Items								
	Supply and safely store the following poles. Transport to site of works and install pole in excavated hole, including cutting and scaffing, kicking bolts, bonding, treating, etc. Excavation and compaction are measured elsewhere.								
7.4.1	5m pole, 80-100mm top diameter	0058A	No	200		R -		R -	R -
7.4.2	7m Pole, 100-120mm top diameter	0050B	No	0				R -	R -
7.4.3	Install 'Unique Seals' supplied by Eskom and record on Control Sheet and PCS file. Two seals per unit.		No	0				R -	R -
7.4.4	Install Marketing Labels complete. Labels to the Eskom Standard SCSSCAAP5 and TQGHSP05.		No	0				R -	R -
7.4.5	Submit populated Control Sheet and PCS CorDaptix information to the Project Engineer upon the successful energising of a customer. Payment will only be made upon the successful loading of the Data onto Eskom's CorDaptix software system. Resolve queries raised by Eskom and the Engineer.		No	0				R -	R -
7.5	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).								
7.5.1	Hole for 5m service pole - 1.0m deep		No	200				R -	R -
7.5.2	Hole for 7m service pole - 1.3m deep		No	0				R -	R -
	TOTAL : Carried forward to summary					R -		R -	R -

BILL NO 7 - DISMANTLING AND REMOVAL						PRICE (EXCL VAT)			
ESIKHALENI ELECTRIFICATION									
Item	Description	Detail Ref	Unit	Quantity	Supply Rate	Supply Total	Install Rate	Install Total	Total Price (R)
8.	Prices are to include the recovery in good condition of items below, loading & offloading, temporary storage, transporting of the items to HCM Depot 2 stores, signing the return to stores forms. 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.								
8.1	Conductor								
	Allow for the loosening/unbinding of existing conductor, slackening off the existing conductor, removal from attachment and rolling up and transport to site store & HCM Depot 2 stores and booked back to stores with the relevant documentation.								
8.1.1	Fox Conductor	3136	m	0			R 3,00	R -	R -
8.1.2	Three Phase MV Bundle	3136	m				R 3,00	R -	R -
8.1.3	ABC -Single Phase	3136	m	0			R 3,00	R -	R -
8.1.3	ABC -Three Phase	3136	m				R 3,00	R -	R -
8.1.4	CABLE to CONDUCTOR Terminal Assembly	3136	m				R 7,00	R -	R -
8.2	Low Voltage Structures and Kiosks								
	Allow for the dismantling and removal of the following structures and insulator assemblies:								
8.2.1	Single phase LV structures (Intermediate)	1153	No	0				R -	R -
8.2.2	Single phase LV structures -Strain 0-60 deg	1155	No	0			R 100,00	R -	R -
8.2.3	Single phase LV structures -Strain 60-90 deg	1156	No					R -	R -
8.2.4	Single Phase LV structure - Terminal	1154	No	0			R 100,00	R -	R -
8.2.5	Airac stubby poles		No					R -	R -
8.2.5	Dismantling- Existing house connections -Complete		No					R -	R -
8.2.6	Pole / Ground-mounted metering kiosks		No					R -	R -
8.2.7	Existing LV cables in metering kiosks (per kiosk)		No					R -	R -
	MCB's / MCCB's		No					R -	R -
8.2.8	Single / three phase meters (to be dealt with as per Eskom's standard procedure for handling meters)		No	0			R 350,00	R -	R -
8.3	Medium Voltage Structures								
	Allow for the dismantling and removal of the following structures and insulator assemblies:								
8.3.1	MV Bundle Support Structure		No					R -	R -
8.3.2	Single phase (16kVA)		No	0			R 600,00	R -	R -
8.3.3	Three phase (25, 50, 100, 200kVA)		No	0			R 650,00	R -	R -
8.3.4	Minisubs		No					R -	R -
8.3.5	500kVA, 800kVA Three phase		No					R -	R -
8.4	SWER Structures General arrangements								
8.4.1	SWER - Intermediate - 0 deg Deviation		No					R -	R -
8.4.2	SWER - Medium(1°-60°) Deviation		No					R -	R -
8.5	Three Phase Structures General arrangements								
8.5.1	Sectional Links (Cut-Outs) - 1804		No					R -	R -
8.5.2	Sectional Links (Cut-Outs) - 1848		No	0			R 250,00	R -	R -
8.5.3	3 Phase - Delta / 2.5m Wood X-arm- Strain - Terminal		No	0			R 250,00	R -	R -
8.6	Recovering of Transformers, Structures, Insulators and Line Hardware								
	Allow for the disassembly , removal transport to site store & to HCM Depot 2 and booked back to stores with the relevant documentation. Include the backfilling consolidation and levelling of soil from excavation at the site of recovery.								
8.6.1	Woodpoles MV incl. crossarms, insulators & hardware		No	0			R 250,00	R -	R -
8.6.2	Stays assemblies complete (LV/MV)		No	0			R 250,00	R -	R -
8.6.3	Cross Arms, including assembly, accessories etc		No	0			R 200,00	R -	R -
8.6.4	MV Transformer and Structure		No	0				R -	R -
	TOTAL : Carried forward to summary						R -	R -	R -

FINAL SUMMARY						
MOYENI ELECTRIFICATION		ENQUIRY NO.: 8/1/1/4/23 - TEC14/2021		PRICE (EXCL VAT)		
Item	Description	Total Supply		Total Install		Total Price (R)
1	PRELIMINARY AND GENERAL			R	-	R
2	MEDIUM VOLTAGE SWITCHGEAR, SECTIONALISERS, TRANSFORMERS, ETC.	R	-	R	-	R
3	MEDIUM VOLTAGE OVERHEAD AND UNDER-GROUND DISTRIBUTION SYSTEM	R	-	R	-	R
4	SUPPORT FOR OVERHEAD RETICULATION	R	-	R	-	R
5	LOW VOLTAGE OVERHEAD DISTRIBUTION LINES	R	-	R	-	R
6	LOW VOLTAGE UNDERGROUND DISTRIBUTION	R	-	R	-	R
7	HOUSE CONNECTION	R	-	R	-	R
8	DISMANTLING			R	-	R
	TOTAL OFFER (excluding VAT)	R	-	R	-	R
	Handling fee@10%	R	-			R
	TOTAL OFFER (excluding Vat)	R	-	R	-	R
	VAT	R	-	R	-	R
	TOTAL INCLUDING VAT	R	-	R	-	R