

BILLS OF QUANTITIES for Mogoto Ext. Village 100 Stands									
Item	Description	Unit	MQty	MRate	LQty	LRate	Mtotal	Ltotal	Total
A	Site Establishment & Safety								
1	Establish site camp, store, personnel, rental, transport, notice board, removal of site camp, etc.	Sum	0	0.00	1.00		0.00		
2	Payment of CLO @ (R4,500 per month)	Prov.Sum	0	0.00	1.00		0.00		
3	Payment of Student @ (R4,500 per month)	Prov.Sum	0	0.00	1.00		0.00		
4	Pyament of PSC Members @ (R140 per member per sitting @ max, of ten(10))	Prov.Sum	0	0.00	1.00		0.00		
5	Acredited Training	Prov.Sum	0	0.00	1.00		0.00		
6	Compensation for Land	Prov.Sum	0	0.00	1.00		0.00		
7	Payment of UIF EPWP Sixteen (16)	Prov.Sum	0	0.00	1.00		0.00		
8	Payment of EPWP Workers Sixteen (16)	Prov.Sum	0	0.00	1.00		0.00		
9	Compliance with OHS Act incl. safety File and safety inspections and meetings, (See c#.^ of Scope of Works)								
9.1	Clothing/Equipment & ensure use thereof for full compliance	Sum	1		0.00	0.00		0.00	
9.2	Related Training	Sum	0	0.00	1.00		0.00		
9.3	Occupational Health and Safety Administration	Sum	0	0.00	1.00		0.00		
9.4	Madical Health amnd Safety Administartion	Sum	0	0.00	1.00		0.00		
9.5	Medical Surveillance	Sum	0	0.00	1.00		0.00		
9.6	Facilities and Equipment	Sum	0	0.00	1.00		0.00		
9.7	Safety Signage	Sum	0	0.00	1.00		0.00		
9.8		Sum	0	0.00	1.00		0.00		
SUB-TOTAL									
B	Pegging out the works	Unit	MQty	MRate	LQty	LRate	Mtotal	Ltotal	Total
1	MV Pegging (Provisional Amount)	Prov.Sum	0.00	0.00	1.00		0.00		
2	LV Pegging (Provisional Amount)	Prov.Sum	0.00	0.00	1.00		0.00		
3	AS-Built drawing by an Eskom approved surveyor (Who pegged the lines) Only Provisional amount	Prov.Sum	0.00	0.00	1.00		0.00		
4	Bush Clearing and Tree Felling	m	0.00	0.00	0.00	-	0.00	0.00	0.00
SUB-TOTAL							0.00		

C	Digging Holes	Unit	MQty	MRate	LQty	LRate	Mtotal	Ltotal	Total
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1A	LV stay back-actor or hand	e.a.	0	0.00	0	0.00	0.00	0.00	0.00
1B	Rock Drill	e.a.	0	0.00	42		0.00		
1C	Compressors	e.a.	0	0.00	0	0.00	0.00	0.00	0.00
2A	MV stay back-actor or hand	e.a.	0	0.00	0	0.00	0.00	0.00	0.00
2B	Rock Drill	e.a.	0	0.00	8	0.00	0.00	0.00	0.00
2C	Compressors	e.a.	0	0.00	0	0.00	0.00	0.00	0.00
3A	7m Pole back-actor or hand	e.a.	0	0.00	0	0.00	0.00	0.00	0.00
3B	Rock Drill	e.a.	0	0.00	82		0.00		
3C	Compressors	e.a.	0	0.00	0	0.00	0.00	0.00	0.00
4A	9m Pole back-actor or hand	e.a.	0	0.00	0	0.00	0.00	0.00	0.00
4B	Rock Drill	e.a.	0	0.00	13		0.00		
4C	Compressors	e.a.	0	0.00	0	0.00	0.00	0.00	0.00
5A	10m Pole back-actor or hand	e.a.	0	0.00	0	0.00	0.00	0.00	0.00
5B	Rock Drill	e.a.	0	0.00	0	0.00	0.00	0.00	0.00
5C	Compressors	e.a.	0	0.00	0	0.00	0.00	0.00	0.00
6A	11m Pole back-actor or hand	e.a.	0	0.00	0	0.00	0.00	0.00	0.00
6B	Rock Drill	e.a.	0	0.00	31		0.00		
6C	Compressors	e.a.	0	0.00	0	0.00	0.00	0.00	0.00
7A	13m Pole back-actor or hand	e.a.	0	0.00	0	0.00	0.00	0.00	0.00
7B	Rock Drill	e.a.	0	0.00	0		0.00	0.00	0.00
7C	Compressors	e.a.	0	0.00	0	0.00	0.00	0.00	0.00
SUB-TOTAL							0.00		
D	Plant poles	Unit	MQty	MRate	LQty	LRate	Mtotal	Ltotal	Total
1	7m Wood 120-140mm tops	e.a.	82		82				
2	9m Wood 140-160mm tops	e.a.	0	0.00	0	0.00	0.00	0.00	0.00
3	9m Wood 160-180 mm tops	e.a.	13		13				
4	10m Wood 160-180mm tops	e.a.	0	0.00	0	0.00	0.00	0.00	0.00
5	10m Wood 180-200mm tops	e.a.	0	0.00	0	0.00	0.00	0.00	0.00
6	11m Wood 160-180mm tops	e.a.	31		31				
7	11m Wood 180-200mm tops	e.a.	0	0.00	0	0.00	0.00	0.00	0.00
8	12m Wood 180-200mm tops	e.a.	0	0.00	0	0.00	0.00	0.00	0.00
9	13m Wood 180-200mm tops	e.a.	5		5				
SUB-TOTAL									

E	HV Structures	Unit	MQty	MRate	LQty	LRate	Mtotal	Ltotal	Total
	DUAL PHASE								
1	Int ass delta 0 deg	e.a.	0	0	0	0	0	0	0
2	Int ass vertical (1-10 deg)	e.a.	0	0	0	0	0	0	0
3	Int ass stag vertical (0 deg)	e.a.	0	0	0	0	0	0	0
4	Strain ass delta (0-30 deg)	e.a.	0	0	0	0	0	0	0
5	Strain ass delta (30-90 deg)	e.a.	0	0	0	0	0	0	0
6	Terminal delta	e.a.	0	0	0	0	0	0	0
7	T-off ass int-delta	e.a.	0	0	0	0	0	0	0
8	T-off ass str-delta	e.a.	0	0	0	0	0	0	0
9	T-off ass int vert	e.a.	0	0	0	0	0	0	0
10	Susp ass vert (10-30 deg)	e.a.	0	0	0	0	0	0	0
11	Strain ass vertical (30-90 deg)	e.a.	0	0	0	0	0	0	0
12	Terminal ass vert	e.a.	0	0	0	0	0	0	0
13	In-line strain vert	e.a.	0	0	0	0	0	0	0
14	T-off ass strain vert	e.a.	0	0	0	0	0	0	0
SUB-TOTAL									
F	THREE PHASE	Unit	MQty	MRate	LQty	LRate	Mtotal	Ltotal	Total
1	Int ass delta 0 deg	e.a.	0	0.00	0	0.00	0.00	0.00	0.00
2	Int ass vertical (1-10 deg)	e.a.	2		2				
3	Int ass stag vertical (0 deg)3ph	e.a.	0	0.00	0	0.00	0.00	0.00	0.00
4	Strain ass delta (0-30 deg)	e.a.	20		20				
5	Strain ass delta (30-90 deg)	e.a.	0	0.00	0	0.00	0.00	0.00	0.00
7	T-off ass int-delta	e.a.	0	0.00	0	0.00	0.00	0.00	0.00
8	T-off ass str-delta	e.a.	0	0.00	0	0.00	0.00	0.00	0.00
9	T-off ass int vert	e.a.	2		2				
10	Susp ass vert (10-30 deg)	e.a.	4	0.00	4	0.00	0.00	0.00	0.00
11	Strain ass vertical (30-90 deg)	e.a.	4		4				
12	Terminal ass vert	e.a.	24		24				
13	In-line strain vert	e.a.	0	0.00	0	0.00	0.00	0.00	0.00
SUB-TOTAL									
G	MV Stays	Unit	MQty		LQty	LRate	Mtotal	Ltotal	Total
1	1 Off conv anchor	e.a.	9		9				
2	1 Off flying stay	e.a.	0	0.00	0	0.00	0.00	0.00	0.00
3	1 Off strut pole 9m	e.a.	37		37				
SUB-TOTAL									

H	LV Structures	Unit	MQty	MRate	LQty	LRate	Mtotal	Ltotal	Total
1	Int / susp (0-30 deg) - DDT 1100	e.a.	55		55				
2	Intermediate service	e.a.	0	0.00	0	0.00	0.00	0.00	0.00
3	Strain (0-60 deg) - DDT 1121	e.a.	2		2				
4	Strain (60-90 deg) - DDT 1122	e.a.	25		25				
5	Terminal - DDT 1120	e.a.	0	0.00	0	0.00	0.00	0.00	0.00
6	T-off from interm - DDT 1140	e.a.	5		5				
7	Int susp ass (0-30 deg) (2Phase) - DDT 1145	e.a.	1		1				
8	Cross int-int ass - DDT 1141	e.a.	0	0.00	0	0.00	0.00	0.00	0.00
9	Terminal ass (2Phase) - DDT 1146	e.a.	42		42				
10	Strain ass (60-90 deg) (2Phase) - DDT 1148	e.a.	14		14				
11	T-off ass (2Phase) - DDT 1149	e.a.	2		2				
SUB-TOTAL									
I	LV Stays	Unit	MQty	MRate	LQty	LRate	Mtotal	Ltotal	Total
1	1 Off conv anchor	e.a.	42		42				
2	1 Off flying stay	e.a.	0	0.00	0	0.00	0.00	0.00	0.00
3	1 Off strut pole 7m	e.a.	4		4				
SUB-TOTAL									
J	Service Boxes	Unit	MQty	MRate	LQty	LRate	Mtotal	Ltotal	Total
1A	1 - 4 Way box : 1 x 63 A mcb	e.a.	49		49				
2B	5 - 8 Way box : 2 x 63 A mcb	e.a.	17		17				
SUB-TOTAL									
K	Stringing	Unit	MQty	MRate	LQty	LRate	Mtotal	Ltotal	Total
1	Squirrel conductor	m	0	0.00	0	0.00	0.00	0.00	0.00
2	Fox conductor	m	2 524		2524				
3	Mink conductor	m	0	0.00	0	0.00	0.00	0.00	0.00
4	35 mm sq ABC 1-ph	m	0	0.00	0	0.00	0.00	0.00	0.00
5	35 mm sq ABC 2- ph	m	0	0.00	0	0.00	0.00	0.00	0.00
6	35 mm sq ABC 3-ph	m	5 050		5050				
7	70 mm sq ABC 1-ph	m	0	0.00	0	0.00	0.00	0.00	0.00
8	70 mm sq ABC 2-ph	m	0	0.00	0	0.00	0.00	0.00	0.00
9	70 mm sq ABC 3-ph	m	2 000		2000				
10	MV Fox full tension joint	e.a.		0.00	0	0.00	0.00	0.00	0.00
11	LV joint 35 mm full tension	e.a.	0	0.00	0	0.00	0.00	0.00	0.00
12	LV joint 70 mm full tension	e.a.	0	0.00	0	0.00	0.00	0.00	0.00
SUB-TOTAL									

L	Transformer Installation	Unit	MQty	MRate	LQty	LRate	Mtotal	Ltotal	Total
	Transformers: 11kV			0.00		0.00	0.00	0.00	0.00
1	200kVA x 3 Ph (1 off) - relocate	ea	0	0.00	0	0.00	0.00	0.00	0.00
2	200kVA x 3 Ph (1 off) - new	ea	0	0.00	0	0.00	0.00	0.00	0.00
3	100kVA x 3 Ph (2 off) - relocate	ea	0	0.00	0	0.00	0.00	0.00	0.00
4	100kVA x 3 Ph (2 off) - new	ea	4		4				
5	50kVA x 3 Ph (0 off) - relocate	ea	0	0.00	0	0.00	0.00	0.00	0.00
6	50kVA x 3 Ph (0 off) - new	ea	0	0.00	0	0.00	0.00	0.00	0.00
7	32kVA x 1 Ph (0 off) - relocate	ea	0	0.00	0	0.00	0.00	0.00	0.00
8	32kVA x 1 Ph (0 off) - new	ea	0	0.00	0	0.00	0.00	0.00	0.00
9	25kVA x 3 Ph (0 off) - relocate	ea	0	0.00	0	0.00	0.00	0.00	0.00
10	25kVA x 3 Ph (0 off) - new	ea	0	0.00	0	0.00	0.00	0.00	0.00
11	16kVA x 1 Ph (1 off) - relocate	ea	0	0.00	0	0.00	0.00	0.00	0.00
12	16kVA x 1 Ph (1 off) - new	ea	0	0.00	0	0.00	0.00	0.00	0.00
SUB-TOTAL									
M	LV Protection Morsdorf type fuses	Unit	MQty	MRate	LQty	LRate	Mtotal	Ltotal	Total
1	50 A	e.a.	0	0.00	0	0.00	0.00	0.00	0.00
2	80A Dual phase (32kVA)	e.a.	0	0.00	0	0.00	0.00	0.00	0.00
3	80A Three phase (50kVA)	e.a.	0	0.00	0	0.00	0.00	0.00	0.00
4	125A	e.a.	12		12				
5	160A	e.a.	0	0.00	0	0.00	0.00	0.00	0.00
SUB-TOTAL									
N	Installation Earthing	Unit	MQty	MRate	LQty	LRate	Mtotal	Ltotal	Total
1	MV Earthing (Type 1 crowfoot)	e.a.	4		4				
2	LV Earthing (Type 1 crowfoot)	e.a.	4		4				
3	Bonding	e.a.	60		60				
SUB-TOTAL									
O	Pole Numbering	Unit	MQty	MRate	LQty	LRate	Mtotal	Ltotal	Total
1	MV pole number	e.a.	44		44				
2	LV pole number	e.a.	82		82				
SUB-TOTAL									
P	Commissioning	Unit	MQty	MRate	LQty	LRate	Mtotal	Ltotal	Total
1	Test & commission trsf and MV equipment	e.a.	6	0.00	6		0.00		

Q	Other	Unit	MQty	MRate	LQty	LRate	Mtotal	Ltotal	Total
1	Link assembly (On-load) per phase	ea	0	0.00	0	0.00	0.00	0.00	0.00
2	Link assembly (Off load) per phase	ea	0	0.00	0	0.00	0.00	0.00	0.00
3	Drop-out fuses three phase	ea	4		4				
4	Drop-out fuses dual phase	ea	0	0.00	0	0.00	0.00	0.00	0.00
5	Sample line /Material Board	sum	0	0.00	0	0.00	0.00	0.00	0.00
6	CT/VT unit, incl meter box, links	ea	0	0.00	0	0.00	0.00	0.00	0.00
7	Remove existing poles	ea	0	0.00	0	0.00	0.00	0.00	0.00
8	Remove existing conductor	m	0	0.00	0	0.00	0.00	0.00	0.00
9	Remove existing stay	ea	0	0.00	0	0.00	0.00	0.00	0.00
10	Remove existing transformer	ea	0	0.00	0	0.00	0.00	0.00	0.00
11	Upgrade Dual Phase fox MV to three phase fox line, include dressing and re-tension old dual phases.	m	0	0.00	0	0.00	0.00	0.00	0.00
12	Live work (Provisional Amount)	ea	4	0.00	4		0.00		
13	Remove existing dressing	ea	0	0.00	0	0.00	0.00	0.00	0.00
14	Ant-clim device	ea	0	0.00	0	0.00	0.00	0.00	0.00
15	Tree felling (trunk diameter > 300mm)	ea	0	0.00	0	0.00	0.00	0.00	0.00
SUB-TOTAL									
R	House Connections	Unit	MQty	MRate	LQty	LRate	Mtotal	Ltotal	Total
1	Underground connection	ea	0	0.00	0	0.00	0.00	0.00	0.00
2	Overhead connection	ea	100		100				
3	Supply ECU base, fixing rails and plug	ea	100		100				
4	Supply 20A ECU (internal ELPU)	ea	0	0.00	0	0.00	0.00	0.00	0.00
5	Supply Split Meter plus Keypad	ea	100		100				
6	Sealing of meters	ea	100		100				
7	COC certificates	ea	100		100				
8	COC Certificate ECA version	ea	0	0.00	0	0.00	0.00	0.00	0.00
9	Supply and install additional 50A circuit breaker	ea	0	0.00	0	0.00	0.00	0.00	0.00
10	Supply Ready Board plus Rail (No Light)	ea	100		100				
11	Capture and upload of customer data new & Existing, incl. GPS co-ordinates and Supply of Data books	ea	100		100				
SUB-TOTAL									

S	Excavate and plant poles	Unit	MQty	MRate	LQty	LRate	Mtotal	Ltotal	Total
1A	5m Wood 80-100 mm tops	e.a.	15		15				
1B	Rock Drill	e.a.	0	0.00	0	0.00	0.00	0.00	0.00
1C	Compressors	e.a.	0	0.00	0	0.00	0.00	0.00	0.00
2A	7m Wood 120-140 mm tops	e.a.	82		82				
2B	Rock Drill	e.a.		0.00	0	0.00	0.00	0.00	0.00
2C	Compressors	e.a.	0	0.00	0	0.00	0.00	0.00	0.00
3	Shackpole Dressing	e.a.	25		25				
4	Compressors	e.a.	0	0.00	0	0.00	0.00	0.00	0.00
5	Hand Excavate Cable trench -house connection	m	0	0.00	0	0.00	0.00	0.00	0.00
6	Hand Excavate Cable trench-Road Crossing	m	0	0.00	0	0.00	0.00	0.00	0.00
7	Install Cable Sleeves 110mm	m	0	0.00	0	0.00	0.00	0.00	0.00
SUB-TOTAL									
T	Conductor(Installation incl in service con rate)	Unit	MQty	MRate	LQty	LRate	Mtotal	Ltotal	Total
1	4mm sq Airdac CNE plus Pilot wires	m	0	-	0	-	0.00	0.00	0.00
2	10mm sq Airdac CNE plus Pilot wires	m	4400		4400				
SUB-TOTAL									

Summary of the BOQ

A	Site Establishment & Safety	Total
B	Pegging out the works	
C	Digging Holes	
D	Plant poles	
E	HV Structures	0.00
F	THREE PHASE	
G	MV Stays	
H	LV Structures	
I	LV Stays	
J	Service Boxes	
K	Stringing	
L	Transformer Installation	
M	LV Protection Morsdorf type fuses	
N	Installation Earthing	
O	Pole Numbering	
P	Commissioning	
Q	Other	
R	House Connections	
S	Excavate and plant poles	
T	Conductor(Installation incl in service con rate)	
TOTAL (A)		
10% CONTIGENCY		
TOTAL (B)		
VAT @ 15%		
GRAND TOTAL		