

PROJECT NAME:

START DATE:

CONTRACTOR:

END DATE:

CONTRACT #:

PO NUMBER:

SUMMARY PAGE		NUMBER OF CONNECTIONS		
SECTION	DESCRIPTION	SUPPLY TOTAL	LABOUR TOTAL	GRAND TOTAL
A	PRELIMINARY AND GENERAL ITEMS			
B	BUSH CLEARING & TREE FELLING			
C	EXCAVATIONS			
D	PLANTING OF POLES			
E	Single Phase MV Structure (DOWNWIRE EXCL. BUT BONDING INCL)			
F	ASSEMBLE MV STAYS			
G	ASSEMBLE SINGLE PHASE LV STRUCTURES			
H	ASSEMBLE LV STAYS			
I	POLE TOP BOX INSTALLATION			
J	CONDUCTOR STRINGING (TENSION, REGULATE & BIND IN)			
K	EQUIPMENT INSTALLATION			
L	EARTHING INSTALLATION			
M	SERVICE CONNECTION			
N	INSTALLATION			
S	LABELLING			
T	EQUIPMENT TESTING			
U	AS - BUILTS			
W	BIG FIVE			
X	TRANSPORT			
	TOTAL EXCLUDING 15% VAT			
	15% VAT			
	TOTAL INCLUDING 15% VAT			
	COST PER CONNECTION			

VERIFIED BY: CLERK OF WORKS

DATE:

COST CHECK BY: QUANTITY SURVEYOR(M.Mbana)

DATE:

ACCEPTED BY: CONTRACTOR

DATE:

APPROVED BY: PROGRAM MANAGER

DATE:

START DATE:
END DATE:

[illegible]

Clerk of Works

DATE _____

Quantity Surveyor

DATE _____

Contractor

DATE _____

Program Manager

DATE _____

PROJECT NAME:
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BILL OF ACTIVITIES									
ITEM	REFERENCE DRAWING	DESCRIPTION	UNIT	Months	SUPPLY QTY	SUPPLY RATE	SUPPLY TOTAL	LABOUR QTY	GRAND TOTAL
PRELIMINARY AND GENERAL ITEMS									
A									
SUB-TOTAL A									
BUSH CLEARING & TREE FELLING									
B									
In the event where the contractor is required to cut, remove and clear trees on site. This activity shall be used to									
1		Bush Clearing and Tree Felling (Scattered Formation)	m						
2		Bush Clearing and Tree Felling (Dense Formation)	m2						
ACCEPTED QUOTE * 5%									
ACCEPTED QUOTE * 5%									
SUB-TOTAL B									
EXCAVATIONS									
C									
Excavate only as per Easom Standard for Holes and Trenches for Poles, Stays and Struts. All material will be									
1		3TAYS & STRUTS							
1,1		D-DT-0350 LV Stay Back-Actor or Hand	Each	27				27	
1,2		D-DT-0350 LV Stay auger	Each	12				12	
1,3		D-DT-0350 LV Stud Back-Actor or Hand	Each	4				4	
1,4		D-DT-0350 LV Stud auger	Each	14				14	
WOOD POLES									
2									
2,1		D-DT-0330 5m Pole Wood Back-Actor or Hand (1.5m Deep)	Each	11				11	
2,7		D-DT-0330 7m Pole Wood Back-Actor or Hand (1.5m Deep)	Each	8				8	
2,13		D-DT-0330 8m Pole Wood Back-Actor or Hand (1.5m Deep)	Each	48				48	
2,14		D-DT-0330 9m Pole Wood auger (1.5m Deep)	Each	18				18	
2,15		D-DT-0330 8m Pole Wood Hand Rock Drilling (1.5m Deep)	Each	15				15	
2,18		D-DT-0330 11m Pole Wood Back-Actor or Hand (1.5m Deep)	Each	1				1	
SUB-TOTAL C									
PLANTING OF POLES									
D									
Planting including backfilling and compaction are measured here. The costs are also inclusive of plant and									
1		Soil Type 1							
1,1		5m Wooden Pole 60-100mm Top Diameter Soil Type 1	Each	11				11	
1,8		D-DT-0050 7m Wooden Pole 100-120mm Top Diameter Soil Type 1	Each	8				8	
1,25		D-DT-0055 8m Wooden Pole 160-178 mm Top Diameter Soil Type 1	Each	77				77	
1,28		D-DT-0055 8m Wooden Pole 180-198mm Top Diameter Soil Type 1	Each	2				2	
1,73		D-DT-0051 11m Wooden Pole 160-178mm Top Diameter H4 Soil Type 1	Each	18				18	
1,77		D-DT-0051 11m Wooden Pole 180-198mm Top Diameter H4 Soil Type 1	Each	2				2	
SUB-TOTAL D									
ASSEMBLE SINGLE PHASE LV STRUCTURES									
G									
Supply and erect LV support structures as per Easom DDT 1100 only use insulated neutral ABC, Auxiliary									
equipment such as strain clamps, suspension clamps, cable ties, J-Boxes, and cable LV shackle insulators.									
1		A. List of single-phase ABC wood pole							
1,2	1154	LV 1 phase insulated/bare neutral ABC Terminal Assembly	Each	2	2			2	
2,2	1146	LV 2 phase insulated/bare neutral LABC Terminal Assembly	Each	4	4			4	

B. List of Single-Phase Bare Wire wood pole									
6.1	0080	LV Tension Stay Wire Suspension Assembly in Clay	Each	16	16				
6.2	0081	LV Tension Stay Wire Stay Pole Assembly	Each	1	1				
6.3	0082	LV Tension Stay Wire 1/2" Top Ring Assembly	Each	6	6				
6.4	0084	LV Tension Stay Wire Terminal Assembly	Each	16	16				
6.5	0085	LV Tension Stay Wire Top Assembly from Information	Each	7	7				
6.7	0087	LV Tension Stay Wire Top Assembly from Information	Each	2	2				
6.10	0090	LV Tension Stay Wire Cross Arm Assembly	Each	2	2				
SUB-TOTAL G									
Supply and install stays, struts, short stay including backfilling & compaction. Accessories include									
1.1	D-DT-0341	Make-Off Conventional Stay	Each	39	39				
1.3	D-DT-0342/0351	Make-Off Stay Pole	Each	18	18				
SUB-TOTAL H									
POLE TOP BOX INSTALLATION									
Install on a wooden and/or concrete pole a pole mounted distribution box as specified complete with pole									
1.8	3055	BOX, POLE TOP SPLIT METER 2-WAY 60A D3055	Each	51	51				
SUB-TOTAL I									
CONDUCTOR STRINGING (TENSION, REGULATE & BIND IN)									
Install Ekotom Insulated marked conductor. Material quantity to allow for 5% sag in addition to actual conductor									
1.1		Fox Conductor 1-Phase	m	9882.6	9882.6				9882.6
1.2		Fox Full Tension Joint*	Each	8	8				8
1.23	3141	COND,ABC 3C XLPE 35SQ INS NEUT	m	145.95	145.95				145.95
1.25	3141	COND,ABC 3C XLPE 70SQ INS NEUT	m	100	100				100
SUB-TOTAL J									
1.7	D-DT-1868B	Transformer - Out-Of-Line 16kVA to 100kVA/64kVA	Each	2	2				2
Transformer MV Protection									
2									
2.1	D-DT-1846	Equipment Links Cut-Outs Or Disconnects 2.5m Wood Crossarm / Single Pole	Each	2	2				2
2.4	D-DT-0261	Install Surge Arresters (3-phase)	Each	2	2				2
2.5		Install Labels (Chromadek)	Each	2	2				2
3		Transformer LV Protection							
3.10	00309	Dual phase 1st and LV Use holder connection - ABC conductor 90A NH00	Set	5	5				5
3.18		Install Labels (Chromadek)	Each	2	2				2
10		3 Phase Sectional Links							
10.2	D-DT-1646	Section Links Cut/Outs Or Disconnects 2.5m Wood Crossarm / Single Pole	Each	2	2				2
10.7		Install Labels (Chromadek)	Each	2	2				2
L		EARTHING INSTALLATION							
MV & LV Earthing Trenching shall include Excavation, Backfilling, Compaction and Installation of electrode and Transformer - MV Earthing									

1.1	Excavation - length long, 0.5m deep and 0.6m wide	m³	12	12			12		
1.2	D-DT-3139 16mm sq. Bare Stranded Cu Conductor	m	52.8	52.8			52.8		
1.3	D-DT-3137 16mm sq. Insulated Stranded Cu Conductor	m	26.4	26.4			26.4		
1.4	D-DT-3091 Earth Electrode (Type as per the design)	Each	8	8			8		
1.5	Backfill - length long, 0.5m deep and 0.6m wide	m³	12	12			12		
2	Transformer - LV Earthing								
2.1	Excavation - length long, 0.5m deep and 0.6m wide	m³	0.0	0.0			0.0		
2.2	D-DT-3139 16mm sq. Bare Stranded Cu Conductor	m	38.0	38.0			38.0		
2.3	D-DT-3137 16mm sq. Insulated Stranded Cu Conductor	m	17.0	17.0			17.0		
2.4	D-DT-3091 Earth Electrode (Type as per the design)	Each	8	8			8		
2.5	Backfill - length long, 0.5m deep and 0.6m wide	m³	0.0	0.0			0.0		
	SUB-TOTAL - L								
M	SERVICE CONNECTION INSTALLATION								
	House Connections include installation of ready board, mounting hardware, wooden backboards, customer interface units, conduit pipe, excavations and backfilling of underground connection, capturing of customer data								
1.1	D-DT-0360 Overhead service connection dined to dwelling (from the pole top box to the pre-paid meter) (Type A) to brick dwelling	Each	45	45			45		
1.2	D-DT-0360 Overhead service connection with service pole (from the pole top box to the pre-paid meter) (Type B) to mud dwelling	Each	11	11			11		
2	Split / Smart Metering								
2.1	D-DT-3145 Customer Interface Unit	Each	56	56			56		
2.2	D-DT-3178 Split Meter Ready-Board	Each	56	56			56		
2.3	D-ST-2351 Wooden Backboard for Ready board mounting (for Tin and Mud houses)	Each	11	11			11		
2.4	Split Meter Installation	Each	56	56			56		
2.5	Capture and Upload of Customer Data New & Existing including GPS Coordinates	Each	56	56			56		
	SUB-TOTAL M								
N	Service Conductor Installation: Accessories for Service Conductor Installation shall include installation of pigtail, bolts, strain clamps, threaded rod, cable saddles, strapping of all types of service cable. Installation of poles and its accessories are measured elsewhere								
1	D-DT-3140 6mm sq Tinned Copper Aludec with Communication Core	m	2352	2352			2352		
3	D-DT-0384 Kicker Pole Dressing	Each	9	9			9		
4	D-DT-0384 Shack Pole Dressing	Each	11	11			11		
6	0386 Service suspension assembly	Each	11	11			11		
7	0384 Service strain assembly/arrangement	Each	45	45			45		
	SUB-TOTAL N								
8	LABELLING								
1.1	Allow for the following and items to be applied as per relevant Encom								
1.1	kV Pole Number	Each	2	2			2		

[illegible]

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BILL OF ACTIVITIES					
ITEM	DESCRIPTION	UNIT	LABOUR QTY	LABOUR RATE	LABOUR TOTAL
X	TRANSPORT				
Unless otherwise specified, transport is to be used under specific instruction from the Project Manager only. This excludes staff transport. Staff transport is to be paid to transport workers from base location to site only. LDV/4x4 will only be paid for justifiable use and will be to the sole discretion of the Project Manager					
1,1	LDV 4x2	km			
1,2	LDV/4x4	km	2000		
1,3	Personnel Transport for Staff	km	800		
1,4	10 m³ Tipper Truck	km			
1,5	6 m³ Tipper Truck	km			
1,6	Transport Truck 2-4 ton	km			
1,7	Transport Truck 5-8 ton	km			
1,8	Transport Truck 5-8 ton with crane	km	2000		
1,9	Transport Truck 9-14 ton	km			
1,10	Transport Truck 9-14 ton with crane	km			
SUB-TOTAL X					
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