

Ons verw nr / Our Ref No
Isalathiso Sethu T38/2023-A1

G Lotter / S Ngcongolo

Navrae / Enquiries
Imbuzo

6 September 2023

ADDEMDUM NO. 1

**T38/2023: APPOINTMENT OF ELECTRICAL CONTRACTORS FOR LABOUR AND
INSTALLATION WORK WITHIN THE LANGEBERG MUNICIPALITY FOR A 3-YEAR
PERIOD**

To all tenderers

It is kindly requested that pages **79 to 116** in the above-mentioned Tender document **be replaced** with the pages attached to this addendum.

Yours truly



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SECTION A: GENERAL LABOUR FOR ELECTRICAL CONSTRUCTION & MAINTENANCE WORK TO BE AWARDED PER ITEM.
ITEM A1: Anti-Vandalism Activities

No	Activities	Unit	Qty	Rate Year 1	Rate Year 2	Rate Year 3	Total Years 1 + 2 + 3
A	Cable/Equipment covering						
1	Opening of trench for new cable	m	1				
2	Laying the cable in a sand bed	m	1				
3	Covering the cable with material supplied	m	1				
4	Backfilling the trench	m	1				
B	Placing the cable in steel pipe and filling the pipe with cement						
1	Secure steel pipe to pole, wall or lay in ground	m	1				
2	Fill with cement	m	1				
3	Build plinth around foot of pole (wall and pole mount) up to 2750mm	m ³	1				
C	Cement blocks or any other material over cable						
1	Build cement structure over cable and fill with cement	m ³	1				
D	Install other anti-vandalism devices						
1	Install council approved devices over/onto cable or associated equipment by means of brackets and tie-downs	hour	1				
2	Repairing steel structures, welding and reinforcement	hour	1				
E	Concrete covering or concrete blocks						
1	Concrete delivered to site and thrown per cubic metre	m ³	1				
F	FENCING: CLEARVUE AND VIBRACRETE						
1	Replace fencing	m	1				
2	Replace vibracrete of ClearVue™ panels per panel	p/l	1				
3	Replace Barbed or razor wire	m	1				
4	Replace electric fencing and accessories	m	1				
G	Site Establishment						
1	Site establishment (if applicable)	once	1				
Total (Excl. VAT)							
VAT 15%							
Total (Incl. VAT)							

ITEM A2: Distribution Kiosks & Pole Top Boxes

No	Activities	Unit	Qty	Rate Year 1	Rate Year 2	Rate Year 3	Total Years 1 + 2 + 3
A	Civil Works:						
1	Removal of Tarmac	m ³	1				
2	Removal of Concrete	m ³	1				
3	Removal of Brick Paving	m ²	1				
4	Removal of Soil	m ³	1				
5	Reinstating of Tarmac	m ³	1				
6	Reinstating of Concrete 15MPA	m ³	1				
7	Reinstating of Brick Paving	m ²	1				
8	Reinstating of Soil	m ³	1				
9	Trenching	m	1				
10	Sleeve installation	m	1				
11	Jointing of a cable in a trench – irrespective size	each	1				
B	Construction Work – Distribution Kiosk						
1	Removal of existing Kiosk (4 - 12 way)	each	1				
2	Removal of Base and transport thereof	each	1				
3	Installation of New Kiosk (4 - 9 Way)	each	1				
4	Cable Joint in kiosk up to cable size 35mm ²	each	1				
5	Cable Joint in kiosk up to cable size 185mm ²	each	1				
C	Construction Work – Pole Top Box						
6	Removal of existing Pole Top Box	each	1				
7	Installation of New Pole Top Box	each	1				
D	Consumer Notifications (Interruptions)						
1	Notification to Consumers (Hand delivered paper notices)	each	1				
E	Site Establishment						
1	Site establishment (if applicable)	once	1				
Total (Excl. VAT)							
VAT 15%							
Total (Incl. VAT)							

ITEM A3: 11kV Cable Jointing and Termination

No	Activities	Unit	Qty	Rate Year 1	Rate Year 2	Rate Year 3	Total Years 1 + 2 + 3
A	Excavation Work: Digging of Joint Bay or Trenches						
1	Tarmac	m ³	1				
2	Concrete	m ³	1				
3	Brick Paving	m ²	1				
4	Base Course	m ³	1				
5	Soft Soil	m ³	1				
6	Intermediate Soil	m ³	1				
7	Hard Soil	m ³	1				
B	Reinstate of Joint Bay or Trenches to original compaction and finish						
1	Tarmac	m ³	1				
2	Concrete	m ³	1				
3	Brick Paving	m ²	1				
4	Base Course	m ³	1				
5	Soft Soil	m ³	1				
6	Intermediate Soil	m ³	1				
7	Hard Soil	m ³	1				
C	Cable Joints 11Kv						
1	16mm ² - 70mm ²	each	1				
2	95mm ² - 150mm ²	each	1				
3	185mm ² - 300mm ²	each	1				
4	300mm ² - 500/600mm ² single core per core	each	1				
D	Cable Terminations 11Kv						
	Indoor Termination (Heat Shrink)						
1	16mm ² - 70mm ²	each	1				
2	95mm ² - 150mm ²	each	1				
3	185mm ² - 300mm ²	each	1				
4	300mm ² - 500/600mm ² single core per core	each	1				
	Outdoor Terminations (Heat Shrink)						
5	16mm ² - 70mm ²	each	1				
6	95mm ² - 150mm ²	each	1				

ITEM A3: 11kV Cable Jointing and Termination

No	Activities	Unit	Qty	Rate Year 1	Rate Year 2	Rate Year 3	Total Years 1 + 2 + 3
7	185mm ² - 300mm ²	each	1				
8	300mm ² - 500/600mm ² single core per core	each	1				
E	Site Establishment						
1	Site establishment (if applicable)	once	1				
Total (Excl. VAT)							
VAT 15%							
Total (Incl. VAT)							

ITEM A4: Erection and Maintenance of 11kV Overhead Lines

No	Activities	Unit	Qty	Rate Year 1	Rate Year 2	Rate Year 3	Total Years 1 + 2 + 3
A	Excavation Work:						
1	Hole for Pole, 1.8m Soft Soil	each	1				
2	Hole for Pole, 1.8m Intermediate Soil	each	1				
3	Hole for Pole, 1.8m Hard Soil	each	1				
4	Hole for Pole, 1.5m Soft Soil	each	1				
5	Hole for Pole, 1.5m Intermediate Soil	each	1				
6	Hole for Pole, 1.5m Hard Soil	each	1				
7	Hole for Stay - Soft Soil	each	1				
8	Hole for Stay - Intermediate Soil	each	1				
9	Hole for Stay - Hard Soil	each	1				
10	Hole for Strut Pole, 9 & 11m strut - Soft Soil	each	1				
11	Hole for Strut Pole, 9 & 11m strut - Intermediate Soil	each	1				
12	Hole for Strut Pole, 9 & 11m strut - Hard Soil	each	1				
13	Hole for Rock Anchor, 1m x 32mm diameter - Rock Drill	each	1				
14	Hole for Pole, 1.8m x 405mm diameter - Rock Drill	each	1				
15	Hole for Stay, round stay plate, 350mm - Rock Drill	each	1				
16	Hole for Stay, 2m - stay plate, 405mm	each	1				
B	Construction Work:						

ITEM A4: Erection and Maintenance of 11kV Overhead Lines

No	Activities	Unit	Qty	Rate Year 1	Rate Year 2	Rate Year 3	Total Years 1 + 2 + 3
1	Dressing of 11m Wooden Poles with A-frame, Strain and Terminal Structures	each	1				
2	Dressing of 11m Wooden Poles with A-frame, Intermediate Structures	each	1				
3	Dressing of 11m Wooden Poles with Strain Cross Arm	each	1				
4	Dressing of 11m Terminal Structure, with Insulators	each	1				
5	Dressing of 11m Strain Structure, with Insulators	each	1				
6	Dressing of Strain Cross-arm, T-off from 11m Intermediate	each	1				
7	Dressing of 11m Intermediate Structure, with Insulators	each	1				
8	Installation of 11m Wooden Poles (All)	each	1				
9	Installation of 9m Wooden Poles	each	1				
10	Installation of 9 & 11m Strut Pole	each	1				
11	Installation of Normal Stay	each	1				
12	Installation of Flying Stay	each	1				
13	Installation of Rock Anchor	each	1				
14	Installation of Drop-out Fuses	each	1				
C	Installation of Conductors:						
1	Gopher / Fox / Rabbit / Mink Conductor or equivalent	m	1				
2	Hare / Wolf Conductor or equivalent	m	1				
3	Termination of Conductor on 11m A-frame – Intermediate	each	1				
4	Termination of Conductor on 11m A-frame - Strain	each	1				
5	Binding of Conductors - Intermediate A-frame	each	1				
6	Installation of Spiral or other Vibration Dampers	each	1				
D	Installation of Transformers:						
1	Installation of pole mounted transformer	each	1				
2	Installation of transformer on a platform	each	1				
3	Installation of transformer on a 4-Pole Structure	each	1				
4	Installation of 12kV Surge Arresters	each	1				
5	Installation of MV Earthing at Transformer Station	each	1				
6	Installation of LV Earthing at Transformer Station	each	1				
7	Installation of Meter Box at Transformer Station	each	1				
E	Surveying						

ITEM A4: Erection and Maintenance of 11kV Overhead Lines

No	Activities	Unit	Qty	Rate Year 1	Rate Year 2	Rate Year 3	Total Years 1 + 2 + 3
1	Route establishment	span	1				
2	Line design and drawing of span sheet	span	1				
3	Pegging out of route	span	1				
4	G.P.S co-ordinates	span	1				
F	Traffic Control						
1	Traffic Control and visibility of Workers form an integral part of every activity on this Tender and must be priced	per day	1				
G	Site Establishment						
1	Site establishment (if applicable)	once	1				
Total (Excl. VAT)							
VAT 15%							
Total (Incl. VAT)							

ITEM A5: Demolition of Overhead Lines

No	Activities	Unit	Qty	Rate Year 1	Rate Year 2	Rate Year 3	Total Years 1 + 2 + 3
A	Demolishing of Existing Power Lines:						
1	Removal of steel or wooden poles	each	1				
2	Removal of stays	each	1				
3	Removal of Conductors (pole-to-pole)/ Span length	each	1				
4	Removal of Transformers	each	1				
B	Traffic Control						
1	Traffic Control	per day	1				
C	Site Establishment						
1	Site establishment (if applicable)	once	1				
Total (Excl. VAT)							
VAT 15%							
Total (Incl. VAT)							

ITEM A6: Erection and maintenance of 66kV Overhead Lines

No	Activities	Unit	Qty	Rate Year 1	Rate Year 2	Rate Year 3	Total Years 1 + 2 + 3
A	Excavation Work:						
1	Hole for Pole, 2m Soft Soil	each	1				
2	Hole for Pole, 2m Intermediate Soil	each	1				
3	Hole for Pole, 2m Hard Soil	each	1				
4	Hole for Stay, 2m stay rod, 600mm x 600mm stay plate - Soft Soil	each	1				
5	Hole for Stay, 2m stay rod, 600mm x 600mm stay plate - Intermediate Soil	each	1				
6	Hole for Stay, 2m stay rod, 600mm x 600mm stay plate - Hard Soil	each	1				
7	Hole for Rock Anchor, 1m x 32mm diameter - Rock Drill	each	1				
8	Hole for Pole, 2m x 405mm diameter - Rock Drill	each	1				
9	Hole for Stay for 2m x 405mm diameter, round stay plate - Rock Drill	each	1				
B	Construction Work:						
1	Assembling of 12m wooden H-pole, Terminal and Strain Structure	each	1				
2	Assembling of 13m wooden H-pole, Intermediate Structure	each	1				
3	Installation of 12m or 13m Wooden Pole H-structure, Terminal, Strain and Intermediate structures	each	1				
4	Installation of Normal Stay	each	1				
5	Installation of Rock Anchor	each	1				
6	Dressing of 12m H-pole Structures with Insulators, terminal structures	each	1				
7	Dressing of 12m H-pole Structures with Insulators, strain structures	each	1				
8	Dressing of 13m H-pole Structures with Insulators, Intermediate Structures	each	1				
C	Installation of Conductors:						
1	Hare Conductor (running out and hook into pulleys)	m	1				
2	Termination of Conductor on 12m H-pole, Terminal Structure, irrespective number of Spans	each	1				
3	Termination of Conductor on 12m H-pole, Strain Structure, irrespective number of spans	each	1				
4	Suspension of Conductors on 13m H-pole, Intermediate Structures	each	1				

ITEM A6: Erection and maintenance of 66kV Overhead Lines

No	Activities	Unit	Qty	Rate Year 1	Rate Year 2	Rate Year 3	Total Years 1 + 2 + 3
5	Terminating of Conductor on Substation steel work, (Closing Span) irrespective of span length	each	1				
D	Surveying						
1	Route establishment	km	1				
2	Line design and drawing of span sheet	km	1				
3	Pegging out of route	km	1				
4	G.P.S co-ordinates	each	1				
E	Traffic Control						
1	Traffic Control	day	1				
F	Site Establishment						
1	Site establishment (if applicable)	once	1				
Total (Excl. VAT)							
VAT 15%							
Total (Incl. VAT)							

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ITEM A7: Erection and maintenance of LV Overhead Lines

No	Activities	Unit	Qty	Rate Year 1	Rate Year 2	Rate Year 3	Total Years 1 + 2 + 3
A	Excavation Work:						
1	Hole for Pole, 1.5m Soft Soil	each	1				
2	Hole for Pole, 1.5m Intermediate Soil	each	1				
3	Hole for Pole, 1.5m Hard Soil	each	1				
4	Hole for Stay, Soft Soil	each	1				
5	Hole for Stay, Intermediate Soil	each	1				
6	Hole for Stay, Hard Soil	each	1				
7	Hole for Strut Pole, 9m strut - Soft Soil	each	1				
8	Hole for Strut Pole, 9m strut - Intermediate Soil	each	1				
9	Hole for Strut Pole, 9m strut - Hard Soil	each	1				
10	Hole for Rock Anchor, 1m x 32mm diameter	each	1				
11	Hole for Pole, 1.5m x 405mm diameter	each	1				
12	Hole for Stay for 2m x 405mm diameter, round stay plate, 350mm - Rock Drill	each	1				
13	Hole for Stay for 1.5m x 405mm diameter, round stay plate, 350mm - Rock Drill	each	1				
14	Hole for pole, 1,5m x 405mm diameter	each	1				
15	Hole for stay, 2m x 405mm diameter	each	1				
16	Hole for stay, 1,5m x 405 diameter	each	1				
B	Construction Work:						
1	Dressing of 9m Wooden Poles – Strain	each	1				
2	Dressing of 9m Wooden Poles - Intermediate	each	1				
3	Installation of 9m Wooden Poles	each	1				
4	Installation of 9m Strut Pole	each	1				
5	Installation of Normal Stay	each	1				
6	Installation of Flying Stay	each	1				
7	Installation of a Rock Anchor	each	1				
C	Installation of Conductors:						
1	Alu or Copper conductors, irrespective of size	m	1				
2	ABC Conductor 3 load cores + 54.6mm + 25mm	m	1				
3	Termination of conductor at 9m pole	each	1				

ITEM A7: Erection and maintenance of LV Overhead Lines

No	Activities	Unit	Qty	Rate Year 1	Rate Year 2	Rate Year 3	Total Years 1 + 2 + 3
4	Termination of conductor at 9m Strain Pole	each	1				
5	Suspension of conductor at 9m pole	each	1				
6	ABC T-off from ABC line at 9m wooden Strain	each	1				
7	ABC T-off, from open line, at 9m wooden Strain	each	1				
8	ABC T-off, from ABC line, at 9m steel Strain	each	1				
9	ABC T-off, from open line, at 9m steel Strain	each	1				
10	ABC T-off, from ABC line, at 9m wooden – Inter	each	1				
11	ABC T-off, from open line, at 9m wooden – Inter	each	1				
12	ABC T-off, from ABC line, at 9m steel – Inter	each	1				
13	ABC T-off, from open line, at 9m steel - Inter	each	1				
D	Surveying						
1	Route establishment	km	1				
2	Line design and drawing of span sheet	km	1				
3	Pegging out of route	km	1				
4	G.P.S co-ordinates	km	1				
E	Traffic Control						
1	Traffic Control	day	1				
F	Site Establishment						
1	Site establishment (if applicable)	once	1				
Total (Excl. VAT)							
VAT 15%							
Total (Incl. VAT)							

ITEM A8: Service Connections & LV Cables

No	Activities	Unit	Qty	Rate Year 1	Rate Year 2	Rate Year 3	Total Years 1 + 2 + 3
A	House Service Connections and LV Cables						
1	Installation of Pole Mounted Consumer Box or Floor mounted distribution kiosk	each	1				
2	Installation of Consumer Supply Cable, 35, 25, 16 or 10mm ² Airdac or PVC SWA	m	1				
3	Installation of any meter in pole mounted box or floor mounted kiosk, or any meter/Ready board in the house, and removal of old equipment	each	1				
4	Termination and Jointing of consumer cables, irrespective type and size	each	1				
B	Excavation Work:						
1	Digging of trenches by hand, 400mm Wide x 550mm Deep - Soft Soil	m	1				
2	Digging of trenches by hand, 400mm Wide x 550mm Deep - Intermediate Soil	m	1				
3	Digging of trenches by hand, 400mm Wide x 550mm Deep - Hard Soil	m	1				
4	Digging of trenches by hand, 400mm Wide x 550mm Deep - Hard Soil, Compressor & Breaker	m	1				
5	Digging of trenches by hand, 400mm Wide x 750mm Deep - Soft Soil	m	1				
6	Digging of trenches by hand, 400mm Wide x 750mm Deep - Intermediate Soil	m	1				
7	Digging of trenches by hand, 400mm Wide x 750mm Deep - Hard Soil	m	1				
8	Installation of Earth Conductor , in trenches and through ducts, irrespective size	m	1				
C	Installation of Ducts						
1	Installation of 110mm PVC Sleeves - in ground	each	1				
2	Installation of 160mm PVC Sleeves - in ground	each	1				
3	Installation of 25/40/50mm Galvanised Conduit	each	1				
D	Traffic Control						
1	Traffic Control	day	1				
E	Site Establishment						
1	Site establishment (if applicable)	once	1				
Total (Excl. VAT)							
VAT 15%							

ITEM A8: Service Connections & LV Cables

No	Activities	Unit	Qty	Rate Year 1	Rate Year 2	Rate Year 3	Total Years 1 + 2 + 3
Total (Incl. VAT)							

ITEM A9: Service Connections - Conversions (Conventional - Prepaid & Vice Versa)

No	Activities	Unit	Qty	Rate Year 1	Rate Year 2	Rate Year 3	Total Years 1 + 2 + 3
A	House Service Connections						
1	Installation of Meter back plate or split meter control board and wiring to distribution board	each	1				
2	Installation of Consumer Supply Cable, 25, 16 or 10mm ² Airdac or PVC SWA	m	1				
3	Installation of split meter in pole mounted box or floor mounted kiosk / or prepaid meter base the house	each	1				
4	Installation of Ready board and Certificate of Compliance	each	1				
5	Cable joint – irrespective cable size	each	1				
B	Traffic Control	day	1				
C	Site Establishment						
1	Site establishment (if applicable)	once	1				
Total (Excl. VAT)							
VAT 15%							
Total (Incl. VAT)							

ITEM A10: Streetlights: Installation & Maintenance

No	Activities	Unit	Qty	Rate Year 1	Rate Year 2	Rate Year 3	Total Years 1 + 2 + 3
A	Excavation Work:						
1	Hole for Pole, 1.8m Soft Soil	each	1				
2	Hole for Pole, 1.8m Intermediate Soil	each	1				
3	Hole for Pole, 1.8m Hard Soil	each	1				
4	Hole for Pole, 1.5m Soft Soil	each	1				
5	Hole for Pole, 1.5m Intermediate Soil	each	1				
6	Hole for Pole, 1.5m Hard Soil	each	1				
7	Hole for Pole, 1m Soft Soil	each	1				
8	Hole for Pole, 1m Intermediate Soil	each	1				
9	Hole for Pole, 1m Hard Soil	each	1				
10	Hole for Pole, 1.8m x 405mm diameter - Rock Drill / Compressor	each	1				
11	Removal of Tarmac	m ³	1				
12	Removal of Concrete	m ³	1				
13	Removal of Brick Paving	m ²	1				
14	Removal of Base Course	m ³	1				
15	Reinstatement of Tarmac	m ³	1				
16	Reinstatement of Concrete	m ³	1				
17	Reinstatement of Brick Paving	m ²	1				
18	Reinstatement of Base Course	m ³	1				
19	Removal/disposal of spoilt material, irrespective distance to Dumping Site within Langeberg Area	m ³	1				
20	Transport to/from Site, irrespective of distance – Tarmac, Concrete, Bricks, Paving, Base Course, Backfill Material, Sand within Langeberg Area	m ³	1				
	Digging of trenches [Including back filling, compaction, site restoration]						
21	Digging 300/400mm Wide x 750mm Deep - Soft Soil	m	1				
22	Digging 300/400mm Wide x 750mm Deep - Intermediate Soil	m	1				
23	Digging 300/400mm Wide x 750mm Deep - Hard Soil	m	1				
B	Construction						
1	Installation of 9 or 11m Streetlight Pole	each	1				

ITEM A10: Streetlights: Installation & Maintenance

No	Activities	Unit	Qty	Rate Year 1	Rate Year 2	Rate Year 3	Total Years 1 + 2 + 3
2	Installation of 5m - 7m Streetlight Pole	each	1				
3	Installation of Streetlight Cables	m	1				
4	Assembling and installation of Streetlight Control Kiosk	each	1				
5	Removal of existing Streetlight Control Kiosk	each	1				
6	Installation of Outreach Arm	each	1				
7	Replacement of Luminaire	each	1				
8	Replacement of Internal Wiring, irrespective length of pole	each	1				
9	Replacement of Lamp	each	1				
10	Replacement of Ballast	each	1				
11	Replacement of Lens	each	1				
12	Replacement of Circuit Breaker	each	1				
C	Surveying						
1	Route establishment	km	1				
2	Line design and drawing of span sheet	km	1				
3	Pegging out of route	km	1				
4	G.P.S co-ordinates	km	1				
D	Traffic Control	day	1				
E	Demolishing of Existing Streetlight Poles:						
1	Removal of steel, concrete, fibreglass or wooden poles and delivery as per predetermined site	each	1				
F	Site Establishment						
1	Site establishment (if applicable)	once	1				
Total (Excl. VAT)							
VAT 15%							
Total (Incl. VAT)							

ITEM A11: Festive Lighting

No	Activities	Unit	Qty	Rate Year 1	Rate Year 2	Rate Year 3	Total Years 1 + 2 + 3
A	Festive Lights						
1	Installation of Festive Lights, in the following Towns: Robertson, Ashton, Bonnievale, Montagu, McGregor.	each	1				
2	Removal of Festive Lights, in the following Towns: Robertson, Ashton, Bonnievale, Montagu, McGregor.	each	1				
B	Site Establishment						
1	Site establishment (if applicable)	once	1				
Total (Excl. VAT)							
VAT 15%							
Total (Incl. VAT)							

ITEM A12: Maintenance on 30m & 15m Masts

No	Activities	Unit	Qty	Rate Year 1	Rate Year 2	Rate Year 3	Total Years 1 + 2 + 3
A	Excavation Work:						
1	Excavation for Mast Foundation - Soft Soil	m ³	1				
2	Excavation for Mast Foundation - Intermediate Soil	m ³	1				
3	Excavation for Mast Foundation - Hard Soil	m ³	1				
	Including backfilling and compaction						
4	Trenching 400mm x 750mm - Soft Soil	m	1				
5	Trenching 400mm x 750mm - Intermediate Soil	m	1				
6	Trenching 400mm x 750mm - Hard Soil	m	1				
B	Form Work:						
1	Casting of 25 MPA concrete for Mast Foundation, irrespective distance from Municipal Stores	m ³	1				
C	Mechanical Construction Work of 30m Mast						
1	Installation of 30m Mast, irrespective distance to Municipal Stores	each	1				
2	Dismantling of 30m Mast for maintenance and safety reasons	each	1				
D	Electrical Construction Work of 30m Mast						
1	Installation of Electrical Components on 30m Mast	each	1				
2	Removal of Electrical Components for maintenance and safety reasons	each	1				
E	Erection and lowering of 30m Mast						
1	Erection of 30m Mast by means of 30 Ton Crane	each	1				
2	Lowering of existing 30m Mast by means of 30 Ton Crane	each	1				
F	Mechanical Construction Work of 15m Mast						
1	Installation of 15m Mast	each	1				
2	Dismantling of 15m Mast for maintenance reasons	each	1				
G	Electrical Construction Work of 15m Mast						
1	Installation of Electrical Components on 15m Mast	each	1				
2	Removal of Electrical Components for maintenance reasons	each	1				
H	Erection and lowering of 15m Mast						
1	Erection of 15m Mast by means of 30 Ton Crane	each	1				
2	Lowering of existing 15m Mast by means of 30 Ton Crane	each	1				
I	Cabling						

ITEM A12: Maintenance on 30m & 15m Masts

No	Activities	Unit	Qty	Rate Year 1	Rate Year 2	Rate Year 3	Total Years 1 + 2 + 3
1	Installation of supply cable for Masts or Poles, irrespective of cable size but limited to (16mm ² to 35mm ² 4 core)	each	1				
J	Hiring of Crane						
1	Hiring of 30 Ton Crane and Man Cage, with at least 35m working height (Tender price shall be for a 9 hour working day)						
	i) Site Establishment	day	1				
	ii) Hiring Rate	day	1				
	iii) Crane Insurance	day	1				
	iv) Load under hook Insurance	day	1				
2	Hiring of 14 ton Truck Mounted Crane, with at least 17m working height						
	i) Hiring Rate	hr	1				
	ii) Travelling Rate	hr	1				
	iii) Crane Insurance	hr	1				
	iv) Load under hook Insurance	hr	1				
K	Site Establishment						
1	Site establishment (if applicable)	once	1				
Total (Excl. VAT)							
VAT 15%							
Total (Incl. VAT)							

ITEM A13: Annual Legislative Inspection & Certification on Masts

No	Activities	Unit	Qty	Rate Year 1	Rate Year 2	Rate Year 3	Total Years 1 + 2 + 3
A	Annual Mast and Pole Inspection						
1	MPI Test to be carried out by a duly authorised and certified person	each	1				
B	Hiring of Crane						
1	Hiring of 30 Ton Crane and Man Cage, with at least 35m working height (Tender price shall be for a 9 hour working day)						
	i) Site Establishment	day	1				
	ii) Hiring Rate	day	1				
	iii) Crane Insurance	day	1				
	iv) Load under hook Insurance	day	1				
2	Hiring of Truck Mounted Crane, with at least 17m working height						
	i) Hiring Rate	hour	1				
	ii) Travelling Rate	hour	1				
	iii) Crane Insurance	hour	1				
	iv) Load under hook Insurance	hour	1				
C	Site Establishment						
1	Site establishment (if applicable)	once	1				
Total (Excl. VAT)							
VAT 15%							
Total (Incl. VAT)							

ITEM A14: General Maintenance on High Mast and Stadium Lights

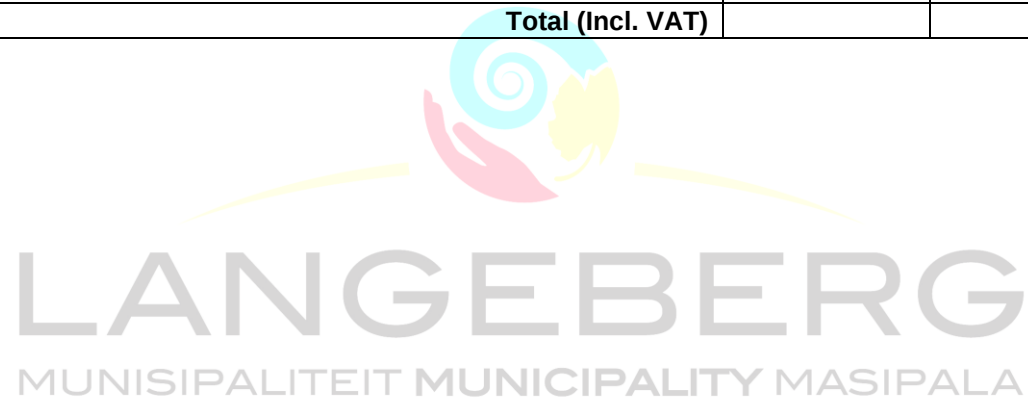
No	Activities	Unit	Qty	Rate Year 1	Rate Year 2	Rate Year 3	Total Years 1 + 2 + 3
A	Day to day maintenance of High Mast and Stadium Lights, irrespective of distance to Municipal Stores						
1	i) Changing of Luminaires - 400W and LED	each	1				
	ii) Changing of Luminaires - 1000W and 2000W	each	1				
2	Changing of Lamps - 400W/1000W/2000W/LED	each	1				
3	Changing of Ballasts - 400W/1000W/2000W	each	1				
4	Changing of Lenses - 400W/1000W/2000W	each	1				
5	Painting Poles (Maximum 30m high)	each	1				
B	Hiring of Crane						
1	Hiring of 30 Ton Crane and Man Cage, with at least 35m working height (Tender price shall be for a 9 hour working day)						
	i) Site Establishment	day	1				
	ii) Hiring Rate	day	1				
	iii) Crane Insurance	day	1				
	iv) Load under hook Insurance	day	1				
2	Hiring of Truck Mounted Crane, with at least 17m working height						
	i) Hiring Rate	hour	1				
	ii) Travelling Rate	hour	1				
	iii) Crane Insurance	hour	1				
	iv) Load under hook Insurance	hour	1				
C	Site Establishment						
1	Site establishment (if applicable)	once	1				
Total (Excl. VAT)							
VAT 15%							
Total (Incl. VAT)							

ITEM A15: Mini Substation and Plinth Installation

No	Activities	Unit	Qty	Rate Year 1	Rate Year 2	Rate Year 3	Total Years 1 + 2 + 3
A	Excavation and Formwork (Option A):						
1	Digging out, 300mm deep, compact and backfill, 150mm with sub-base, for foundation of Mini-Substation	each	1				
2	Installation of Foundation Mould and reinforced steel.	each	1				
3	Casting of 25MPA concrete for Mini Sub Foundation,	each	1				
B	Excavation and Formwork (Option B):						
1	Digging out, 300mm deep, compact and backfill, 150mm with sub-base, for foundation of Mini-Substation	each	1				
2	Transport and installation of prefabricated plinth, irrespective kVA rating of Mini-Substation, normally 160kVA to 1000Kva	each	1				
C	Installation Work						
1	Installation of Mini-Substation						
	Collection of Mini-Substation at Langeberg Municipal Stores, transport to site, place on foundation, connection and commissioning	each	1				
2	Removal of Mini-Substation						
	Disconnect & remove Minisubstation from plinth and transport to Langeberg Municipal Stores	each	1				
D	Traffic Control						
1	Traffic Control	day	1				
E	Site Establishment						
1	Site establishment (if applicable)	once	1				
Total (Excl. VAT)							
VAT 15%							
Total (Incl. VAT)							

ITEM A16: Mini-Substation In-Service Maintenance

No	Activities	Unit	Qty	Rate Year 1	Rate Year 2	Rate Year 3	Total Years 1 + 2 + 3
A	Oil Leak Repairs:						
1	In service oil leak repairs irrespective of position	each	1				
2	Finishing of the area where the repairs were done, including cleaning and painting	each	1				
B	Site Establishment						
1	Site establishment (if applicable)	once	1				
Total (Excl. VAT)							
VAT 15%							
Total (Incl. VAT)							



ITEM A17: Trenching and installation of cables

No	Activities	Unit	Qty	Rate Year 1	Rate Year 2	Rate Year 3	Total Years 1 + 2 + 3
A	Excavation Work:						
1	Digging of trenches by hand, 400mm Wide x 550mm Deep - Soft Soil	m	1				
2	Digging of trenches by hand, 400mm Wide x 550mm Deep - Intermediate Soil	m	1				
3	Digging of trenches by hand, 400mm Wide x 550mm Deep - Hard Soil	m	1				
4	Digging of trenches by hand, 400mm Wide x 550mm Deep - Hard Soil, Compressor & Breaker	m	1				
5	Digging of trenches by hand, 400mm Wide x 750mm Deep - Soft Soil	m	1				
6	Digging of trenches by hand, 400mm Wide x 750mm Deep - Intermediate Soil	m	1				
7	Digging of trenches by hand, 400mm Wide x 750mm Deep - Hard Soil	m	1				
8	Digging of trenches by hand, 400mm Wide x 850mm Deep - Hard Soil, Compressor & Breaker	m	1				
9	Digging of trenches by hand, 600mm Wide x 1100mm Deep - Soft Soil	m	1				
10	Digging of trenches by hand, 600mm Wide x 1100mm Deep - Intermediate Soil	m	1				
11	Digging of trenches by hand, 600mm Wide x 1100mm Deep - Hard Soil	m	1				
12	Digging of trenches by hand, 600mm Wide x 1200mm Deep - Hard Soil, Compressor & Breaker	m	1				
13	Digging of Trenches by means of machine, 400mm Wide x 950mm Deep, but limited to Soft Soil, Intermediate Soil, Hard Soil	m	1				
14	Digging of Trenches by means of machine, 600mm Wide x 1200mm Deep, but limited to Soft Soil, Intermediate Soil, Hard Soil	m	1				
15	Removal of Tarmac	m ³	1				
16	Removal of Concrete	m ³	1				
17	Removal of Brick Paving	m ²	1				
18	Removal of Base Course	m ³	1				
19	Reinstatement of Tarmac	m ³	1				
20	Reinstatement of Concrete	m ³	1				
21	Reinstatement of Brick Paving	m ²	1				
22	Reinstatement of Base Course	m ³	1				

ITEM A17: Trenching and installation of cables

No	Activities	Unit	Qty	Rate Year 1	Rate Year 2	Rate Year 3	Total Years 1 + 2 + 3
23	Removal and disposal of spoilt material	m ³	1				
24	Transport to Site - Tarmac	m ³	1				
25	Transport to Site - Concrete	m ³	1				
26	Transport to Site - Brick Paving	m ³	1				
27	Transport to Site - Base Course	m ³	1				
28	Transport to Site - Sand	m ³	1				
29	Transport to Site - Backfill Material	m ³	1				
B	Installation of Cables:						
1	MV Cables, in trenches and through ducts, PILC or XLPE						
	i) Installation of 11kV Cables, 35mm ² - 50mm ²	m	1				
	ii) Installation of 11kV Cables, 70mm ² - 95mm ²	m	1				
	iii) Installation of 11kV Cables, 120mm ² - 185mm ²	m	1				
	iv) Installation of 11kV Cables, 240mm ² - 500mm ² + single	m	1				
2	LV Cables, in trenches and through ducts, irrespective number of cores, Copper or Aluminium						
	i) Installation of 1000V Cables, 1.5mm ² - 16mm ²	m	1				
	ii) Installation of 1000V Cables, 25mm ² - 70mm ²	m	1				
	iii) Installation of 1000V Cables, 95mm ² - 150mm ²	m	1				
	iv) Installation of 1000V Cables, 185mm ² - 300mm ²	m	1				
	v) Installation of 1000V Cables, single core cable, irrespective of size	m	1				
3	Installation of Earth Conductors, in trenches and through ducts, irrespective size						
	Installation of covered conductor/BCEW, 16/25/35/70mm ²	m	1				
C	Installation of Ducts						
1	Installation of 110mm PVC Sleeves - in ground	m	1				
2	Installation of 160mm PVC Sleeves - in ground	m	1				
3	Installation of 25/40/50mm Galvanised Conduit	m	1				
D	Traffic Control						
1	Traffic Control	day	1				
E	Site Establishment						
1	Site establishment (if applicable)	once	1				

ITEM A17: Trenching and installation of cables

No	Activities	Unit	Qty	Rate Year 1	Rate Year 2	Rate Year 3	Total Years 1 + 2 + 3
Total (Excl. VAT)							
VAT 15%							
Total (Incl. VAT)							

ITEM A18: Maintenance of 66kV Transformers

No	Activities	Unit	Qty	Rate Year 1	Rate Year 2	Rate Year 3	Total Years 1 + 2 + 3
A	Transformer and Tap Changer Maintenance:						
1	Top Up oil level - Tap changer and main transformer	p/l	1				
2	Repair/Replace transformer cooling fins (oil leaks and weather degradation)	each	1				
3	Repair/Replace of all valves and sampling points	each	1				
4	Repair oil leaks on bushings and fins	each	1				
5	Repair all rusted items, zinc treat and respray the whole unit	each	1				
6	Repair earthing straps and do Earthing test	each	1				
7	Do oil sample tests on main and OLTC tank and report on the following and not limited to:						
	i) Moisture	each	1				
	ii) Dielectric strength	each	1				
	iii) Acidity	each	1				
	iv) Furan Analysis	each	1				
	v) Dissolved Gas	each	1				
	vi) PCB	each	1				
8	Replace breather and/or silica gel	each	1				
9	Repair/Replace of bushings and insulators	each	1				
10	Replace sensors, gauges, or any other associated measuring or protective equipment	each	1				
11	Site establishment	once	1				
B	Infrared scanning	each	1				

ITEM A18: Maintenance of 66kV Transformers

No	Activities	Unit	Qty	Rate Year 1	Rate Year 2	Rate Year 3	Total Years 1 + 2 + 3
C	Visual Inspection						
1	Carried out in accordance with NRS 089-3-2:2009	each	1				
2	Site establishment	once	1				
D	Tap Changer Maintenance:						
1	Manufacturer's Yearly	p/l	1				
2	Manufacturer's 3 Yearly	each	1				
3	Manufacturer's 6 Yearly	each	1				
4	Manufacturer's 10 Yearly	each	1				
5	Site establishment	once	1				
E	OLTC Conversion with oil Replacement						
1	Conversion – replace old with new, including modifications to all associated wiring, piping, etc.	One	1				
2	Oil replacement	One	1				
F	Site Establishment						
1	Site establishment (if applicable)	once	1				
Total (Excl. VAT)							
VAT 15%							
Total (Incl. VAT)							

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ITEM A19: 66kV Transformers: Oil Purification and Replacement, Drain & Fill							
No	Activities	Unit	Qty	Rate Year 1	Rate Year 2	Rate Year 3	Total Years 1 + 2 + 3
A	Transformer oil conditioning (Filtration/Purification)						
1	Site establishment and equipment deployment	each	1				
2	Oil filtration and purification per litre	p/l	1				
3	Oil sampling and testing after completion with certification (SANS)	each	1				
4	Site restoration (cleaning of oil spills, etc.)	each	1				
B	Transformer oil replacement						
1	Site establishment and equipment deployment	each	1				
2	Drain existing oil into container/s supplied by tenderer	p/l	1				
3	Replace with virgin/regen oil, oil filtration and purification per litre	Litre	1				
4	Ensure correct functioning of all auxiliary equipment and relays associated with the oil	each	1				
5	Oil sampling and testing after completion with certification (SANS)	each	1				
6	Site restoration (cleaning of oil spills, etc.)	each	1				
C	Transformer oil drain, repair, refill						
1	Site establishment and equipment deployment	once	1				
2	Drain oil into container/s supplied by the tenderer	p/l	1				
3	Replace failed items [packings, bushings, etc]	p/hour	1				
4	Return oil to tank oil Ensure correct functioning of all auxiliary/monitoring equipment and relays associated with the oil	p/l	1				
5	Oil filtration and purification per litre if needed	p/l	1				
6	Oil sampling and testing after completion with certification (SANS)	each	1				
7	Site restoration (cleaning of oil spills, etc.)	Once	1				
D	Site Establishment						
1	Site establishment (if applicable)	once	1				
Total (Excl. VAT)							
VAT 15%							
Total (Incl. VAT)							

ITEM A20: 66kV Oil, SF6, Vacuum Breaker Maintenance

No	Activities	Unit	Qty	Rate Year 1	Rate Year 2	Rate Year 3	Total Years 1 + 2 + 3
A	Breaker Maintenance (Outdoor EIB/Alstom)						
1	Top Up oil, SF6 gas or restore vacuum per unit (all phase)	each	1				
2	Service mechanism and associated contact mechanisms	each	1				
3	Service and test contacts per unit (all phase)	each	1				
4	Repair oil or gas leaks per unit (all phase)	each	1				
5	Repair all rusted items, zinc treat and respray	each	1				
6	Repair/Replace of bushings and insulators per unit (all phase)	each	1				
7	SF6 gas supply and deliver only	kg	1				
8	Provisional amount for spares; only upon authorisation from the Municipality; quotation to be provided.	sum	1	100 000.00			
B	Site Establishment						
1	Site establishment (if applicable)	once	1				
Total (Excl. VAT)							
VAT 15%							
Total (Incl. VAT)							

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ITEM A21: 11kV Oil, SF6 and Vacuum Breakers: Maintenance

No	Activities	Unit	Qty	Rate Year 1	Rate Year 2	Rate Year 3	Total Years 1 + 2 + 3
A	Breaker, Recloser, Sectionaliser and Ring Main Units: Maintenance (Indoor: Reyrolle, Alstom, ABB – Outdoor: Schneider, Lucy, ABB, Lucy, GEC, Reyrolle, Hawker Siddeley, etc.)						
1	Top Up oil, SF6 gas or restore vacuum per unit (all phase)	each	1				
2	Service mechanism and associated contact mechanisms	each	1				
3	Service and test contacts per unit (all phase)	each	1				
4	Repair oil or gas leaks	each	1				
5	Repair all rusted items, zinc treat and respray	each	1				
6	Repair/Replace of bushings and insulators per unit (all phase)	each	1				
7	SF6 gas supply and deliver only	kg	1				
8	Provisional amount for spares; only upon authorisation from the Municipality; quotation to be provided.	sum	1	100 000.00			
B	Breaker Retrofit/Refurbishment/Conversion (Indoor: Reyrolle, Alstom, ABB etc.)						
1	Retrofit oil filled breakers with new vacuum breakers	each	1				
2	Including cable and panel modifications	each	1				
3	Trip testing and certification after installation	each	1				
C	Site Establishment						
1	Site establishment (if applicable)	once	1				
Total (Excl. VAT)							
VAT 15%							
Total (Incl. VAT)							

ITEM A22: Mini-Substations, Transformers & RMU's: Mechanical Maintenance of 11/0.4kV

No	Activities	Unit	Qty	Rate Year 1	Rate Year 2	Rate Year 3	Total Years 1 + 2 + 3
A	Transformer and Tap Changer Maintenance:						
1	Top up oil level (per litre)	p/l	1				
2	Check tap changer position and functionality	each	1				
3	Replace breathers & silica gel + breather oil	each	1				
4	Repair oil leaks	each	1				
5	Repair all rusted items, zinc treat and respray complete	each	1				
6	Earthing test	each	1				
7	Do oil sample tests on main and OLTC tank and report on the following and not limited to:						
	i) Moisture	each	1				
	ii) Dielectric strength	each	1				
	iii) Acidity	each	1				
	iv) Furan Analysis	each	1				
	v) Dissolved Gas	each	1				
	vi) PCB	each	1				
8	Repair transformer cooling fins	each	1				
9	Repair all valves and sampling points	each	1				
10	Clean/Repair/Replace of bushings and insulators	each	1				
11	Re-tighten all Bolts & Nuts	each	1				
12	Record all LV fuses/circuit breakers info and inspect function	each	1				
13	Check/Repair/Replace all locking devices if need be	each	1				
B	Ring Main Unit Maintenance						
1	Replace the insulating oil or re-gas with SF6, if applicable, restore vacuum	each	1				
2	Check load switch mechanisms and functionality	each	1				
3	Record Fuse sizes and relay settings and test fuses	each	1				
4	Check and test Earth Fault Detection devices	each	1				
5	Repair rust, clean, zinc treat and respray	each	1				
6	Ensure that supports are firmly attached to the plinth	each	1				
7	Test the Earthing and complete certificate	each	1				
C	Site Establishment						

ITEM A22: Mini-Substations, Transformers & RMU's: Mechanical Maintenance of 11/0.4kV

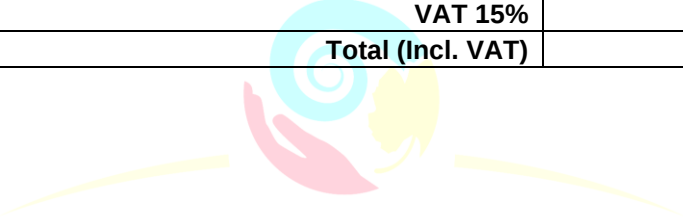
No	Activities	Unit	Qty	Rate Year 1	Rate Year 2	Rate Year 3	Total Years 1 + 2 + 3
1	Site establishment (if applicable)	once	1				
Total (Excl. VAT)							
VAT 15%							
Total (Incl. VAT)							

ITEM A23: Mini-Substation On-Site Maintenance

No	Activities	Unit	Qty	Rate Year 1	Rate Year 2	Rate Year 3	Total Years 1 + 2 + 3
A	Maintenance of Mini-Substations and Associated Equipment:						
1	Labour rate: preparation of steel cover plates, handles, hinges and locking mechanisms, including rust removal, welding in of plates or other.	each	1				
2	Labour rate: Base coat and final coats	each	1				
3	Labour rate: Installation of handles, hinges and locking mechanisms, etc.	each	1				
B	Maintenance of Area in and Around Mini-Substation and Associated Equipment:						
1	Labour rate: cleaning of an area of 1 metre all around the equipment.	each	1				
2	Labour rate: Removal of trees or shrubs cleared from the 1 metre area.	each	1				
3	Labour rate: cleaning and removing pests and the effects of their presence, including long lasting control.	each	1				
C	Site Establishment						
1	Site establishment (if applicable)	once	1				
Total (Excl. VAT)							
VAT 15%							
Total (Incl. VAT)							

ITEM A24: Electrical Pole Refurbishment

No	Activities	Unit	Qty	Rate Year 1	Rate Year 2	Rate Year 3	Total Years 1 + 2 + 3
A	Refurbishing of electrical poles, irrespective of length						
1	Steel poles	each	1				
2	Fibre Glass poles	each	1				
3	Concrete poles	each	1				
4	Wooden poles	each	1				
B	Site Establishment						
1	Site establishment (if applicable)	once	1				
Total (Excl. VAT)							
VAT 15%							
Total (Incl. VAT)							



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ITEM A25: Horizontal drilling/boring under roads

No	Activities	Unit	Qty	Rate Year 1	Rate Year 2	Rate Year 3	Total Years 1 + 2 + 3
A	Horizontal drilling/boring under public roads, roadways, rails, buildings, etc. Tenderer must supply own boring/drilling equipment. Water and sleeves will be supplied by Council. Council will prepare/excavate the site entry and exit points.						
1	2 x 110mm, One Site, per meter	m	1				
2	3 x 110mm, One Site, per meter	m	1				
3	4 x 110mm, Two Sites, per meter	m	1				
4	6 x 110mm, Three Sites, per metre	m	1				
5	2 x 160mm, One Site, per meter	m	1				
6	3 x 160mm, One Site, per meter	m	1				
7	4 x 160mm, Two Sites, per meter	m	1				
8	6 x 160mm, Three Sites, per metre	m	1				
9	Bud weld on 160mm	each	1				
10	Drill rig setup	each	1				
B	Site Establishment						
1	Site establishment (if applicable)	once	1				
Total (Excl. VAT)							
VAT 15%							
Total (Incl. VAT)							

ITEM A26: Electrical Certificate of Compliance Testing

No	Activities	Unit	Qty	Rate Year 1	Rate Year 2	Rate Year 3	Total Years 1 + 2 + 3
A	Testing						
1	Offices						
	i) Distribution Board	each	1				
	ii) Room – irrespective of size	each	1				
2	Houses and Chalets	each	1				
3	Halls and Civic Centres						
	i) Distribution Board	each	1				
	ii) Public area	each	1				
4	Resorts						
	i) Caravan Box – irrespective of size	each	1				
	ii) Ablution Block	each	1				
5	Certificate of Compliance						
	Issue and submit original document	each	1				
B	Site Establishment						
1	Site establishment (if applicable)	once	1				
Total (Excl. VAT)							
VAT 15%							
Total (Incl. VAT)							

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ITEM A27: Electrical Labelling & Earth Leakage Testing: Municipal Buildings

No	Activities	Unit	Qty	Rate Year 1	Rate Year 2	Rate Year 3	Total Years 1 + 2 + 3
A	Distribution boards						
1	Labelling of all the Distribution boards in the building	Per DB	1				
2	Labelling of all circuits per Distribution Boards (Average of 10 circuits per DB)	Per DB	1				
3	Checklist and deviations for each Distribution board (Average of 10 circuits per DB)	Per DB	1				
B	Plug Sockets						
1	Labelling of all the plug circuits in the building	each	1				
2	Testing of all plug sockets with earth leakage tester according the SANS 1024 regulations	each	1				
3	Complete checklist and deviations for each Plug circuit.	each	1				
C	Earth leakage units						
1	Labelling of all Earth Leakage units in the Distribution Boards	each	1				
2	Testing of all Earth Leakage units (COC)	each	1-10				
3	Testing of all Earth Leakage units (COC)	each	10-50				
4	Testing of all Earth Leakage units (COC)	each	50-100				
5	Testing of all Earth Leakage units (COC)	each	100-200				
6	Complete checklist and deviations for each Earth Leakage tested.	each	1				
D	Site Establishment						
1	Site establishment (if applicable)	once	1				
Total (Excl. VAT)							
VAT 15%							
Total (Incl. VAT)							

ITEM A28: Electrical Work LV with Certificate of Compliance Testing

No	Activities	Unit	Qty	Rate Year 1	Rate Year 2	Rate Year 3	Total Years 1 + 2 + 3
A	Repairs and Extensions to existing installations with Certificate of Compliance Testing						
1	Plug circuit extension (surfix or drawn wires) – install	each	1				
2	Plug circuit fault finding and repair	each	1				
3	Light circuit extension (surfix or drawn wires) – install	each	1				
4	Light circuit fault finding and repair	each	1				
5	Geyser circuit (surface, wall or skirt mounted) – install	each	1				
6	Geyser circuit fault finding and repair	each	1				
7	Sub DB with feeder circuit extension single rail – install	each	1				
8	Sub DB with feeder circuit extension double rail – install	each	1				
9	New AC circuit (surface, wall or skirt mounted – surfix or drawn wires) with disconnector	each	1				
10	Replace Earth Leakage Unit, MCB, LCR, etc.	each	1				
11	Replace Geyser element	each	1				
12	Replace Geyser thermostat	each	1				
13	Replace plug – single or double	each	1				
14	Replace light and luminaire fittings – normal height	each	1				
15	Replace light and luminaire fittings – abnormal height (halls) – Council will supply lifting equipment	each	1				
16	New telecommunications point	each	1				
17	Connection of single and three phase stoves	each	1				
18	Earth and Earth Resistance testing with certificate	each	1				
B	Certificate of Compliance						
1	Issue and submit original document	each	1				
C	Site Establishment						
1	Site establishment (if applicable)	once	1				
Total (Excl. VAT)							
VAT 15%							
Total (Incl. VAT)							

ITEM A29: 66kV Outdoor Equipment Maintenance

No	Activities	Unit	Qty	Rate Year 1	Rate Year 2	Rate Year 3	Total Years 1 + 2 + 3
A	Maintenance of 66kV Outdoor Equipment: Disconnecter Equipment						
1	Dismantling and Removal all 3 phases	3ph	1				
2	Preparation and modification of the existing plinth	each	1				
3	New plinth, including mounting rods	m ³	1				
4	Preparation and modification of the existing steel structure	each	1				
5	Installation and commissioning	3ph	1				
B	Maintenance of 66kV Outdoor Equipment: Outdoor breakers						
1	Dismantling and Removal all 3 phases	3ph	1				
2	Preparation and modification of the existing plinth	each	1				
3	Preparation and modification of the existing steel structure	each	1				
4	Installation and commissioning	3ph	1				
C	Maintenance of 66kV Outdoor Equipment: Voltage or Current transformers						
1	Dismantling and Removal all 3 phases	3ph	1				
2	Preparation and modification of the existing steel structure and plinth	each	1				
3	Installation and commissioning	3ph	1				
D	Site Establishment						
1	Site establishment (if applicable)	once	1				
Total (Excl. VAT)							
VAT 15%							
Total (Incl. VAT)							

ITEM A30: Cutting of trees / branches

No	Activities	Unit	Qty	Rate Year 1	Rate Year 2	Rate Year 3	Total Years 1 + 2 + 3
A	Cutting and pruning of trees and branches						
1	All activities as specified included to execute the work	hr	1				
B	Site Establishment						
1	Site establishment (if applicable)	once	1				
Total (Excl. VAT)							
VAT 15%							
Total (Incl. VAT)							

ITEM A31: Specialised 11kV cable testing and fault finding

No	Activities	Unit	Qty	Rate Year 1	Rate Year 2	Rate Year 3	Total Years 1 + 2 + 3
A	Cable testing and fault finding						
1	Fault finding and locating on 11kV cables (PILC or XLPE)	hr	1				
2	Pressure testing of 11kV cable (PILC or XLPE)	each	1				
B	Site Establishment						
1	Site establishment (if applicable)	once	1				
Total (Excl. VAT)							
VAT 15%							
Total (Incl. VAT)							

ITEM A32: Test, report and quote on Damaged equipment

No	Activities	Unit	Qty	Rate Year 1	Rate Year 2	Rate Year 3	Total Years 1 + 2 + 3
A	Test, report and quote on damaged equipment.						
1	Collect equipment from the Central Stores and transport to workshop / test facility						
	i) 11kV Pole Mounted Transformer up to 315kVA	each	1				
	ii) 11kV Mini-Substation up to 1 000kVA	each	1				
	iii) 11kV Auto-recloser	each	1				
	iv) 11kV CT/VT Metering unit	each	1				
	v) 11kV Ring Main Unit	each	1				
2	Test equipment, compile report and quote for repairs						
	i) 11kV Pole Mounted Transformer up to 315kVA	each	1				
	ii) 11kV Mini-Substation up to 1 000kVA	each	1				
	iii) 11kV Auto-recloser	each	1				
	iv) 11kV CT/VT Metering unit	each	1				
	v) 11kV Ring Main Unit	each	1				
3	Return equipment that is unecomonical to repair, to the Central Stores						
	i) 11kV Pole Mounted Transformer up to 315kVA	each	1				
	ii) 11kV Mini-Substation up to 1 000kVA	each	1				
	iii) 11kV Auto-recloser	each	1				
	iv) 11kV CT/VT Metering unit	each	1				
	v) 11kV Ring Main Unit	each	1				
B	Site Establishment						
1	Site establishment (if applicable)	once	1				
Total (Excl. VAT)							
VAT 15%							
Total (Incl. VAT)							