

PART 2: PRICING DATA

TSC3 Option A

| Document reference | Title | No of pages |
|--------------------|-------------------------------|-------------|
| C2.1 | Pricing assumptions: Option A | 2 |
| C2.2 | The <i>price list</i> | 51 |

C2.1 Pricing assumptions: Option A

1. How work is priced and assessed for payment

Clause 11 in NEC3 Term Service Contract (TSC3) core clauses and Option A states:

| | | |
|-------------------------------------|------|--|
| Identified and defined terms | 11 | |
| | 11.2 | (12) The Price List is the <i>price list</i> unless later changed in accordance with this contract. |
| | | (17) The Price for Services Provided to Date is the total of <ul style="list-style-type: none"> the Price for each lump sum item in the Price List which the <i>Contractor</i> has completed and where a quantity is stated for an item in the Price List, an amount calculated by multiplying the quantity which the <i>Contractor</i> has completed by the rate. |
| | | (19) The Prices are the amounts stated in the Price column of the Price List. Where a quantity is stated for an item in the Price List, the Price is calculated by multiplying the quantity by the rate. |

This confirms that Option A is a priced contract where the Prices are derived from a list of items of service which can be priced as lump sums or as expected quantities of service multiplied by a rate or a mix of both.

2. Function of the Price List

Clause 54.1 in Option A states: "Information in the Price List is not Service Information". This confirms that instructions to do work or how it is to be done are not included in the Price List but in the Service Information. This is further confirmed by Clause 20.1 which states, "The *Contractor* Provides the Service in accordance with the Service Information". Hence the *Contractor* does **not** Provide the Service in accordance with the Price List. The Price List is only a pricing document.

3. Link to the *Contractor's* plan

Clause 21.4 states "The *Contractor* provides information which shows how each item description on the Price List relates to the operations on each plan which he submits for acceptance". Hence when compiling the *price list*, the tendering contractor needs to develop his first clause 21.2 plan in such a way that operations shown on it can be priced in the *price list* and result in a satisfactory cash flow in terms of clause 11.2(17).

4. Preparing the *price list*

Before preparing the *price list*, both the *Employer* and tendering contractors should read the TSC3 Guidance Notes pages 14 and 15. In an Option A contract, either Party may have entered items into the *price list* either as a process of offer and acceptance (tendering) or by negotiation depending on the nature of the *service* to be provided. Alternatively the *Employer*, in his Instructions to Tenderers or in a Tender Schedule, may have listed some items that he requires the *Contractor* to include in the *price list* to be prepared and priced by him.

It is assumed that in preparing or finalising the *price list* the *Contractor*:

- Has taken account of the guidance given in the TSC3 Guidance Notes relevant to Option A;
- Understands the function of the Price List and how work is priced and paid for;
- Is aware of the need to link operations shown in his plan to items shown in the Price List;
- Has listed and priced items in the *price list* which are inclusive of everything necessary and incidental to Providing the Service in accordance with the Service Information, as it was at the time of tender, as well as correct any Defects not caused by an *Employer's* risk;
- Has priced work he decides not to show as a separate item within the Prices or rates of other listed items in order to fulfil the obligation to complete the *service* for the tendered total of the Prices.
- Understands there is no adjustment to items priced as lump sums if the amount, or quantity, of work within that item later turns out to be different to that which the *Contractor* estimated at time of tender. The only basis for a change to the (lump sum) Prices is as a result of a compensation event.

4.1. Format of the *price list*

(From the example given in an Appendix within the TSC3 Guidance Notes)

Entries in the first four columns in the *price list* in section C2.2 are made either by the *Employer* or the tendering contractor.

If the *Contractor* is to be paid an amount for the item which is not adjusted if the quantity of work in the item changes, the tendering contractor enters the amount in the Price column only, the Unit, Expected Quantity and Rate columns being left blank.

If the *Contractor* is to be paid an amount for an item of work which is the rate for the work multiplied by the quantity completed, the tendering contractor enters the rate which is then multiplied by the Expected Quantity to produce the Price, which is also entered.

If the *Contractor* is to be paid a Price for an item proportional to the length of time for which a service is provided, a unit of time is stated in the Unit column and the expected length of time (as a quantity of the stated units of time) is stated in the Expected Quantity column.

C2.2 the *price list*

Preliminaries and General

| Bill of Activities | | | | | | | | | | |
|--|-------------------------------------|---|--|----------------------|------------------|-------------------|--------------------|----------------|-----------------|-------|
| Item | Reference: Drawing / Standard | Description | Unit | Material Quantity | Material Rate | Material Total | Labour Quantity | Labour Rate | Labour Total | Total |
| Electrical Contractor : P&Gs and Pre-construction related activities. | | | | | | | | | | |
| 1.1 | n/a | PPE, Total Labour Value | % | | | 0.00 | | | 0.00 | 0.00 |
| 1.2 | n/a | Risk Assessment Procedure, QM, Quality Management System, Health and Safety Specification, Environmental Plan, Safety Inspections, OHSA appointments, Non-Conformance Process. Percentage of Total Labour Value, after certification. | % | | | 0.00 | | | 0.00 | 0.00 |
| 1.3 | n/a | Environmental Compliance to the Environmental Management Plan & Site maintenance - based on agreed quotation based on individual project requirement prior approval needed | Cost plus fee | | | 0.00 | | | 0.00 | 0.00 |
| 1.4 | PSIRA | Security Officer - Grade C unarmed (with Panic button) | Per day | | | 0.00 | | | 0.00 | 0.00 |
| 1.5 | PSIRA and Firearm Control Act | Security Officer - Grade C armed (with Panic button) | Per day | | | 0.00 | | | 0.00 | 0.00 |
| 1.6 | PSIRA | Bulletproof vests (once-off payment) | Each - Once off payment per year contract. | | | 0.00 | | | 0.00 | 0.00 |
| 1.7 | PSIRA | Guard House (For Security Officer) | Per day | | | 0.00 | | | 0.00 | 0.00 |
| 1.8 | n/a | Toilets (Security officers and General contract workers) | Per day | | | 0.00 | | | 0.00 | 0.00 |
| 1.9 | n/a | Pump Water to ensure trenches and joint bays are free of water at all times. | Hour | | | 0.00 | | | 0.00 | 0.00 |

PROVISION FOR MAINTENANCE AND REPAIRS OF HIGH VOLTAGE (6.6KV TO 33KV), OIL FILLED, OIL IMPREGNATED PAPER AND XLPE CABLES, WITHIN ESKOM DISTRIBUTION GAUTENG CLUSTER, FOR A PERIOD OF 2 YEARS ON AN "AS AND WHEN" REQUIRED BASIS

| | | | | | | | | | | |
|--------------|---------------------|---|------------------|--|--|------|--|--|------|-------------------|
| 1.10 | n/a | Provide Cable flash blankets, to be used along the cable route, when in close proximity to other live cables. | Sum | | | 0.00 | | | 0.00 | 0.00 |
| 1.11 | n/a | Set up cable drums station | Sum | | | 0.00 | | | 0.00 | 0.00 |
| 1.12 | n/a | Set up winch station | Sum | | | 0.00 | | | 0.00 | 0.00 |
| 1.13 | n/a | Identify and trace cable (Contractor to supply equipment to locate and trace cable) | Number of cables | | | 0.00 | | | 0.00 | 0.00 |
| 1.14 | <u>240-56030635</u> | Supply and use MV joint bay protective weather cover (waterproof tent) at joints bays. | per joint bay | | | 0.00 | | | 0.00 | 0.00 |
| 1.15 | n/a | Supply and run Generator and lights at joint bays. Fuel to be supplied by contractor. | Hour | | | 0.00 | | | 0.00 | 0.00 |
| Total | | | | | | 0.00 | | | 0.00 | Rates Only |

Transport

| Electrical Contractor : Transport | | | | | | | | | | |
|-----------------------------------|-------------------------------|-------------------------------------|------|-------------------|---------------|----------------|-----------------|-------------|--------------|-------------------|
| Item | Reference: Drawing / Standard | Description | Unit | Material Quantity | Material Rate | Material Total | Labour Quantity | Labour Rate | Labour Total | Total |
| 1.1 | n/a | LDV | km | | | 0.00 | | | 0.00 | 0.00 |
| 1.2 | n/a | Personnel Transport for Staff | km | | | 0.00 | | | 0.00 | 0.00 |
| 1.3 | n/a | 6 m³ Tipper Truck | km | | | 0.00 | | | 0.00 | 0.00 |
| 1.4 | n/a | Transport Truck 5-10 ton | km | | | 0.00 | | | 0.00 | 0.00 |
| 1.5 | n/a | Transport Truck 5-10 ton with crane | km | | | 0.00 | | | 0.00 | 0.00 |
| Total | | | | | | 0.00 | | | 0.00 | Rates Only |

Civil Bill of Quantities

| Bill of Activities | | | | | | | | | | |
|---|-------------------------------------|--|------|----------------------|------------------|-------------------|--------------------|----------------|-----------------|-------|
| Item | Reference: Drawing / Standard | Description | Unit | Material Quantity | Material Rate | Material Total | Labour Quantity | Labour Rate | Labour Total | Total |
| Civil Contractor : P&Gs and Pre-construction related activities. | | | | | | | | | | |
| 1.1 | n/a | Supply and install during construction and remove after construction, danger labels, Water filled plastic barricading and steel guard rails along the cable route length and joint bays as needed. – Signs must be clearly visible even in poor visibility conditions. – (Use warning illuminants where possible.) | Sum | | | 0.00 | | | 0.00 | 0.00 |
| 1.2 | n/a | Supply and install during construction and remove after construction, danger labels, concrete barricading and steel guard rails along the cable route length and joint bays. – Signs must be clearly visible even in poor visibility conditions. – (Use warning illuminants where possible.) | Sum | | | 0.00 | | | 0.00 | 0.00 |

PROVISION FOR MAINTENANCE AND REPAIRS OF HIGH VOLTAGE (6.6KV TO 33KV), OIL FILLED, OIL IMPREGNATED PAPER AND XLPE CABLES, WITHIN ESKOM DISTRIBUTION GAUTENG CLUSTER, FOR A PERIOD OF 2 YEARS ON AN "AS AND WHEN" REQUIRED BASIS

| | | | | | | | | | | |
|--------------|-----|--|---------------|--|--|------|--|--|------|-------------------|
| 1.3 | n/a | Supply and Install steel trench covers / plates during construction, and remove after construction, to ensure that there is access to properties and pedestrian crossings (where needed) while work is performed on the MV cable along the route length. | Sum | | | 0.00 | | | 0.00 | 0.00 |
| 1.4 | n/a | Appoint an independent and professional third party to perform Traffic control studies and report back with a Traffic control plan, and submit a copy to Eskom on a digital media. - Prior approval required. | Cost plus fee | | | 0.00 | | | 0.00 | 0.00 |
| 1.5 | n/a | Civil Engineering - Prior approval required. | Cost plus fee | | | 0.00 | | | 0.00 | 0.00 |
| 1.6 | n/a | Supply traffic control staff and equipment throughout the construction as required. - Prior approval required. | Per day | | | 0.00 | | | 0.00 | 0.00 |
| Total | | | | | | 0.00 | | | 0.00 | Rates Only |

| Civil Contractor : River crossing and embankment support | | | | | | | | | | |
|---|---|--|-------------------|--------------------------|----------------------|-----------------------|------------------------|--------------------|---------------------|--------------|
| Item | Reference: Drawing / Standard | Description | Unit | Material Quantity | Material Rate | Material Total | Labour Quantity | Labour Rate | Labour Total | Total |
| 2.1 | <u>D-DT-0895</u> <u>Sheet 7 and</u> <u>SANS 677</u> | Determine depth of river and construct a start and end shaft / pit for pipe jacking (Cost to include both excavations). Pipes to be jacked a minimum of 2m below the base of the river bed. (Pipe jack pit / shaft to be done in accordance with National and Eskom standards and applicable legislation.) Costs also to include rock blasting if required, and the removal, transportation and dumping (in accordance with the Maintenance Management plan / EMP) of water from the pit /shaft and installed concrete pipe, if required. Costs also to include backfilling and reinstatement of area to its original state after | 2 x pits / shafts | | | 0.00 | | | 0.00 | 0.00 |

| | | | | | | | | | | |
|-----|---|--|---|--|--|------|--|--|------|------|
| | | construction. | | | | | | | | |
| 2.2 | <u>D-DT-0895</u> <u>Sheet 7 and</u> <u>SANS 677</u> | Pipe jack concrete pipes underneath a river. Pipes to be a minimum of 2m below the base of the river bed. Costs to include reinforced precast concrete pipes for pipe jacking, and Spigot and Socket joints or in-the-wall joints for the pipes. Concrete pipes shall comply to SANS 677 type SC requirements as well as National and Eskom standards. | m | | | 0.00 | | | 0.00 | 0.00 |
| 2.3 | <u>D-DT-0895</u> <u>Sheet 7 and</u> <u>SANS 677</u> | Space, position and fix all PVC / PE ducts for the entire length of the PVC / PE ducts inside the concrete pipe. This can be achieved using rot-proof or remanufactured spacers. (Supply and install.) | m | | | 0.00 | | | 0.00 | 0.00 |
| 2.4 | <u>D-DT-8018,</u> <u>D-DT-0895</u> <u>sheet 7</u> | Supply and Install 6m lengths of 250mm diameter PVC / PE ducts and sockets inside the concrete pipe for MV cables. (PVC / PE pipes to protrude a minimum of 2000mm past pre-cast channel / pipe into the bank of the river/stream. High level water mark to be used as reference.) | m | | | 0.00 | | | 0.00 | 0.00 |
| 2.5 | <u>D-DT-8018,</u> <u>D-DT-0895</u> <u>sheet 7</u> | Supply and Install 6m lengths of 250mm diameter PVC / PE ducts and sockets inside the concrete pipe as spares for maintenance. (PVC / PE pipes to protrude a minimum of 2000mm past pre-cast channel / pipe, into the bank of the river/stream. High level water mark to be used as reference.) | m | | | 0.00 | | | 0.00 | 0.00 |

| | | | | | | | | | | |
|------|--|--|----------------|--|--|------|--|--|------|------|
| 2.6 | <u>D-DT-8018,</u> <u>D-DT-0895</u> <u>sheet 7</u> | Supply and Install 6m lengths of 160mm diameter PVC / PE ducts and sockets inside the concrete pipe for MV cables. (PVC / PE pipes to protrude a minimum of 2000mm past pre-cast channel / pipe into the bank of the river/stream. High level water mark to be used as reference.) | m | | | 0.00 | | | 0.00 | 0.00 |
| 2.7 | <u>D-DT-8018,</u> <u>D-DT-0895</u> <u>sheet 7</u> | Supply and Install 6m lengths of 160mm diameter PVC / PE ducts and sockets inside the concrete pipe as spares for maintenance. (PVC / PE pipes to protrude a minimum of 2000mm past pre-cast channel / pipe, into the bank of the river/stream. High level water mark to be used as reference.) | m | | | 0.00 | | | 0.00 | 0.00 |
| 2.8 | <u>D-DT-8018,</u> <u>D-DT-0895</u> <u>sheet 7</u> | Supply, deliver and fill a concrete pipe with a bentonite and water mix (10:1) that is combined with a sand and cement mix (20:8) in the ratio 100:1. The mix must be kept in position by sealing the end of the concrete pipe with densomastic paste (to prevent water ingress), while ensuring the PVC / PE pipes inside still protrude past the concrete pipe and is not filled with any backfill material. | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 2.9 | n/a | Supply, deliver and Seal spare 250mm diameter PVC / PE ducts with suitable caps to prevent ingress of water, vermin and backfill material. | Each | | | 0.00 | | | 0.00 | 0.00 |
| 2.10 | n/a | Supply, deliver and Seal spare 160mm diameter PVC / PE ducts with suitable caps to prevent ingress of water, vermin and backfill material. | Each | | | 0.00 | | | 0.00 | 0.00 |
| 2.11 | n/a | Supply and Install non-metallic draw wires in any size spare PVC / PE sleeves. | m | | | 0.00 | | | 0.00 | 0.00 |
| 2.12 | Maintenance Management plan / EMP and Civil Engineer's engineering report. | Supply and Install gabions mitigate impede soil erosion. - Prior approval required. | m ³ | | | 0.00 | | | 0.00 | 0.00 |

| | | | | | | | | | | |
|--------------|--|---|----------------|--|--|------|--|--|------|-------------------|
| 2.13 | Maintenance Management plan / EMP and Civil Engineer's engineering report. | Supply and Install energy breakers on the river bed to decrease the increased velocity of the water caused by the gabions. - Prior approval required. | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 2.14 | Maintenance Management plan / EMP and Civil Engineer's engineering report. | Supply and Install rip rap (Rock armor) mitigate impede soil erosion. - Prior approval required. | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 2.15 | Maintenance Management plan / EMP and Civil Engineer's engineering report. | Supply and Install earth retention systems, on river embankment to mitigate soil erosion. - Prior approval required. | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 2.16 | Maintenance Management plan / EMP and Civil Engineer's engineering report. | Supply and Install earth Clay plug. - Prior approval required. | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| Total | | | | | | 0.00 | | | 0.00 | Rates Only |

| Civil Contractor : Road crossing | | | | | | | | | | |
|----------------------------------|-------------------------------|-------------|------|-------------------|---------------|----------------|-----------------|-------------|--------------|-------|
| Item | Reference: Drawing / Standard | Description | Unit | Material Quantity | Material Rate | Material Total | Labour Quantity | Labour Rate | Labour Total | Total |

| | | | | | | | | | | |
|-----|---------------------------------------|--|------|--|--|------|--|--|------|------|
| 3.1 | 240-56030635 or Site Specific drawing | Directionally drill underneath road and supply and install 250mm diameter PVC / PE duct for MV cable. Contractor to supply PVC / PE pipe compatible with its machine. | m | | | 0.00 | | | 0.00 | 0.00 |
| 3.2 | 240-56030635 or Site Specific drawing | Directionally drill underneath road and supply and install 160mm diameter PVC / PE duct for MV cable. Contractor to supply PVC / PE pipe compatible with its machine. | m | | | 0.00 | | | 0.00 | 0.00 |
| 3.3 | 240-56030635 or Site Specific drawing | Bullet underneath road and supply and install 250mm diameter PVC / PE duct for MV cable. Contractor to supply PVC / PE pipe compatible with its machine. | m | | | 0.00 | | | 0.00 | 0.00 |
| 3.4 | 240-56030635 or Site Specific drawing | Bullet underneath road and supply and install 160mm diameter PVC / PE duct for MV cable. Contractor to supply PVC / PE pipe compatible with its machine. | m | | | 0.00 | | | 0.00 | 0.00 |
| 3.5 | <u>D-DT-8018</u> | Install a 250mm diameter PVC / PE sleeves underneath road / entrance (each PVC / PE is in 6m length) for MV cable. Cost to include the concrete casted over the PVC / PE sleeves which shall have a minimum surround of 75 mm, to prevent collapsing or deformation after backfilling. The concrete strength shall be at least 15 MPA. | m | | | 0.00 | | | 0.00 | 0.00 |
| 3.6 | <u>D-DT-8018</u> | Install 160mm diameter PVC / PE sleeves underneath road / entrance (each PVC / PE is in 6m length) for MV cable. Cost to include the concrete casted over the PVC / PE sleeves which shall have a minimum surround of 75 mm, to prevent collapsing or deformation after backfilling. The concrete strength shall be at least 15 MPA. | m | | | 0.00 | | | 0.00 | 0.00 |
| 3.7 | n/a | Supply, deliver and Seal spare 250mm diameter PVC / PE ducts with suitable caps to prevent ingress of water, vermin and backfill material. | Each | | | 0.00 | | | 0.00 | 0.00 |

| | | | | | | | | | | |
|--------------|-----|--|------|--|--|------|--|--|-------------------|-------------------|
| 3.8 | n/a | Supply, deliver and Seal spare 160mm diameter PVC / PE ducts with suitable caps to prevent ingress of water, vermin and backfill material. | Each | | | 0.00 | | | 0.00 | 0.00 |
| 3.9 | n/a | Supply and Install non-metallic draw wires in any size spare diameter PVC / PE sleeves. | m | | | 0.00 | | | 0.00 | 0.00 |
| Total | | | | | | 0.00 | | | Rates only | Rates Only |

| Civil Contractor : MV Cable installation | | | | | | | | | | |
|---|-------------------------------|---|------------------|-------------------|---------------|----------------|-----------------|-------------|--------------|-------|
| Item | Reference: Drawing / Standard | Description | Unit | Material Quantity | Material Rate | Material Total | Labour Quantity | Labour Rate | Labour Total | Total |
| 4.1 | n/a | Saw cutting of road surface. (One side of trench) | m | | | 0.00 | | | 0.00 | 0.00 |
| 4.2 | n/a | Saw cutting of road surface. (On both sides of trench) | Total length - m | | | 0.00 | | | 0.00 | 0.00 |
| 4.3 | <u>D-DT-0854</u> | Excavate by hand a 0.45m wide x 1m deep trench for the MV cable (Shale) – General (Note: Excavation to be done in sections at a time, from one MV joint bay to the next MV joint bay. After this, the trench must be backfilled, compacted and surfaces reinstated, etc. before continuing with the installation of the next section, or as directed on-site. The actual labour for backfilling, compacting, reinstatement, etc. will be covered in other activities.) | m ³ | | | 0.00 | | | 0.00 | 0.00 |

| | | | | | | | | | | |
|-----|------------------|--|----------------|--|--|------|--|--|------|------|
| 4.4 | <u>D-DT-0854</u> | Excavate by hand a 0.45m wide x 1 deep trench for the MV cable (Soil) – General (Note: Excavation to be done in sections at a time, from one MV joint bay to the next MV joint bay. After this, the trench must be backfilled, compacted and surfaces reinstated, etc. before continuing with the installation of the next section, or as directed on-site. The actual labour for backfilling, compacting, reinstatement, etc. will be covered in other activities.) | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 4.5 | <u>D-DT-0854</u> | Excavate by machine a 0.45m wide x 1 deep trench for the MV cable (Rock) – General (Note: Excavation to be done in sections at a time, from one MV joint bay to the next MV joint bay. After this, the trench must be backfilled, compacted and surfaces reinstated, etc. before continuing with the installation of the next section, or as directed on-site. The actual labour for backfilling, compacting, reinstatement, etc. will be covered in other activities.) | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 4.6 | <u>D-DT-0854</u> | Excavate by machine a 0.45m wide x 1m deep trench for the MV cable (Shale) – General (Note: Excavation to be done in sections at a time, from one MV joint bay to the next MV joint bay. After this, the trench must be backfilled, compacted and surfaces reinstated, etc. before continuing with the installation of the next section, or as directed on-site. The actual labour for backfilling, compacting, reinstatement, etc. will be covered in other activities.) | m ³ | | | 0.00 | | | 0.00 | 0.00 |

| | | | | | | | | | | |
|-----|------------------|---|----------------|--|--|------|--|--|------|------|
| 4.7 | <u>D-DT-0854</u> | Excavate by machine a 0.45m wide x 1m deep trench for the MV cable (Soil) – General (Note: Excavation to be done in sections at a time, from one MV joint bay to the next MV joint bay. After this, the trench must be backfilled, compacted and surfaces reinstated, etc. before continuing with the installation of the next section, or as directed on-site. The actual labour for backfilling, compacting, reinstatement, etc. will be covered in other activities.) | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 4.8 | <u>D-DT-0854</u> | Excavate by hand a 0.45m wide x 1.3m deep trench for the MV cable (Shale) – Under Road Surface (Parallel to kerbing.) (Note: Excavation to be done in sections at a time, from one MV joint bay to the next MV joint bay. After this, the trench must be backfilled, compacted and surfaces reinstated, etc. before continuing with the installation of the next section, or as directed on-site. The actual labour for backfilling, compacting, reinstatement, etc. will be covered in other activities.) | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 4.9 | <u>D-DT-0854</u> | Excavate by hand a 0.45m wide x 1.3 deep trench for the MV cable (Soil) – Under Road Surface (Parallel to kerbing.) (Note: Excavation to be done in sections at a time, from one MV joint bay to the next MV joint bay. After this, the trench must be backfilled, compacted and surfaces reinstated, etc. before continuing with the installation of the next section, or as directed on-site. The actual labour for backfilling, compacting, reinstatement, etc. will be covered in other activities.) | m ³ | | | 0.00 | | | 0.00 | 0.00 |

| | | | | | | | | | | |
|------|------------------|--|----------------|--|--|------|--|--|------|------|
| 4.10 | <u>D-DT-0854</u> | Excavate by machine a 0.45m wide x 1.3 deep trench for the MV cable (Rock) – Under Road Surface (Parallel to kerbing.) (Note: Excavation to be done in sections at a time, from one MV joint bay to the next MV joint bay. After this, the trench must be backfilled, compacted and surfaces reinstated, etc. before continuing with the installation of the next section, or as directed on-site. The actual labour for backfilling, compacting, reinstatement, etc. will be covered in other activities.) | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 4.11 | <u>D-DT-0854</u> | Excavate by machine a 0.45m wide x 1.3m deep trench for the MV cable (Shale) – Under Road Surface (Parallel to kerbing.) (Note: Excavation to be done in sections at a time, from one MV joint bay to the next MV joint bay. After this, the trench must be backfilled, compacted and surfaces reinstated, etc. before continuing with the installation of the next section, or as directed on-site. The actual labour for backfilling, compacting, reinstatement, etc. will be covered in other activities.) | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 4.12 | <u>D-DT-0854</u> | Excavate by machine a 0.45m wide x 1.3m deep trench for the MV cable (Soil) – Under Road Surface (Parallel to kerbing.) (Note: Excavation to be done in sections at a time, from one MV joint bay to the next MV joint bay. After this, the trench must be backfilled, compacted and surfaces reinstated, etc. before continuing with the installation of the next section, or as directed on-site. The actual labour for backfilling, compacting, reinstatement, etc. will be covered in other activities.) | m ³ | | | 0.00 | | | 0.00 | 0.00 |

| | | | | | | | | | | |
|------|------------------|---|----------------|--|--|------|--|--|------|------|
| 4.13 | <u>D-DT-0854</u> | Excavate by hand a 0.45m wide x 1.6m deep trench for the MV cable. (Shale) – At Road and Railway crossings. (Note: Excavation to be done in sections at a time, from one MV joint bay to the next MV joint bay. After this, the trench must be backfilled, compacted and surfaces reinstated, etc. before continuing with the installation of the next section, or as directed on-site. The actual labour for backfilling, compacting, reinstatement, etc. will be covered in other activities.) | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 4.14 | <u>D-DT-0854</u> | Excavate by hand a 0.45m wide x 1.6m deep trench for the MV cable. (Soil) – At Road and Railway crossings. (Note: Excavation to be done in sections at a time, from one MV joint bay to the next MV joint bay. After this, the trench must be backfilled, compacted and surfaces reinstated, etc. before continuing with the installation of the next section, or as directed on-site. The actual labour for backfilling, compacting, reinstatement, etc. will be covered in other activities.) | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 4.15 | <u>D-DT-0854</u> | Excavate by machine a 0.45m wide x 1.6m deep trench for the MV cable. (Rock) – At Road and Railway crossings. (Note: Excavation to be done in sections at a time, from one MV joint bay to the next MV joint bay. After this, the trench must be backfilled, compacted and surfaces reinstated, etc. before continuing with the installation of the next section, or as directed on-site. The actual labour for backfilling, compacting, reinstatement, etc. will be covered in other activities.) | m ³ | | | 0.00 | | | 0.00 | 0.00 |

| | | | | | | | | | | |
|------|--|--|----------------|--|--|------|--|--|------|------|
| 4.16 | <u>D-DT-0854</u> | Excavate by machine a 0.45m wide x 1.6m deep trench for the MV cable. (Shale) – At Road and Railway crossings. (Note: Excavation to be done in sections at a time, from one MV joint bay to the next MV joint bay. After this, the trench must be backfilled, compacted and surfaces reinstated, etc. before continuing with the installation of the next section, or as directed on-site. The actual labour for backfilling, compacting, reinstatement, etc. will be covered in other activities.) | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 4.17 | <u>D-DT-0854</u> | Excavate by machine a 0.45m wide x 1.6m deep trench for the MV cable. (Soil) – At Road and Railway crossings. (Note: Excavation to be done in sections at a time, from one MV joint bay to the next MV joint bay. After this, the trench must be backfilled, compacted and surfaces reinstated, etc. before continuing with the installation of the next section, or as directed on-site. The actual labour for backfilling, compacting, reinstatement, etc. will be covered in other activities.) | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 4.18 | n/a | Transport (from site) and store soil at suitable site. (First handling of soil, where required.). | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 4.19 | <u>D-DT-0854</u> | Transport (from site) and dump soil. (Bedding soil, blanket soil and trench stabilization soil.) (Material to be dumped at suitable site in accordance with the Maintenance Management plan / EMP .) | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 4.20 | <u>SANS 10198 and D-DT-0854</u> | Sift soil with sieve having a maximum mesh size of no greater than 12mm. (Bedding and blanket) | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 4.21 | Local authority requirements or Civil Engineer's engineering | Supply (Import), install and hand / machine compact (90% MOD AASHTO) imported C4 soil for trench stabilization or backfill. | m ³ | | | 0.00 | | | 0.00 | 0.00 |

| | | | | | | | | | | |
|------|--|--|----------------|--|--|------|--|--|------|------|
| | report. | | | | | | | | | |
| 4.22 | Local authority requirements or Civil Engineer's engineering report. | Supply (Import), install and hand / machine compact (90% MOD AASHTO) imported C5 soil for trench stabilization or backfill. | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 4.23 | Local authority requirements or Civil Engineer's engineering report. | Supply (Import), install and hand / machine compact (90% MOD AASHTO) imported G4 soil for trench stabilization or backfill. | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 4.24 | Local authority requirements or Civil Engineer's engineering report. | Supply (Import), install and hand / machine compact (90% MOD AASHTO) imported G5 soil for trench stabilization or backfill. | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 4.25 | <u>SANS 10198 and D-DT-0854</u> | Backfill, sift and compact (in maximum layers of 300mm – 90% MOD AASHTO) original soil as backfill for MV cables. (Original excavated soil) | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 4.26 | <u>SANS 10198 and D-DT-0854</u> | Return (Transport), backfill, sift, backfill and compact (in maximum layers of 300mm – 90% MOD AASHTO) original soil as backfill for MV cables. (Original excavated soil; Second handling of soil) | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 4.27 | <u>SANS 10198 and D-DT-0854</u> | Offload and install Danger / Warning tape along cable route length. (The tape weights about 22kg for 330m of tape.) | m | | | 0.00 | | | 0.00 | 0.00 |

PROVISION FOR MAINTENANCE AND REPAIRS OF HIGH VOLTAGE (6.6KV TO 33KV), OIL FILLED, OIL IMPREGNATED PAPER AND XLPE CABLES, WITHIN ESKOM DISTRIBUTION GAUTENG CLUSTER, FOR A PERIOD OF 2 YEARS ON AN "AS AND WHEN" REQUIRED BASIS

| | | | | | | | | | | |
|--------------|---|---|-------------------|--|--|-------------|--|--|-------------|-------------|
| 4.28 | Maintenance Management plan / EMP (if applicable) or Civil Engineer's engineering report (if applicable). | Chemical rock breaking. (Supply and apply safely) - Prior approval required. | Each | | | 0.00 | | | 0.00 | 0.00 |
| 4.29 | Maintenance Management plan / EMP (if applicable) or Civil Engineer's engineering report (if applicable). | Rock blasting. (Supply and apply safely) - Prior approval required. | Each | | | 0.00 | | | 0.00 | 0.00 |
| 4.30 | n/a | Transport and dump broken rock. (Material to be dumped at suitable site in accordance with the Maintenance Management plan / EMP .) | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 4.31 | <u>D-DT-8076 and D-DT-0854</u> | Offload and install pre-cast concrete slabs (760mm long, 200mm wide) as per D-DT-0854, along MV cable route length. | m | | | 0.00 | | | 0.00 | 0.00 |
| 4.32 | <u>D-DT-0854 and 240-56030635</u> | Supply, deliver, install (at start of cable trenching) and decommission (after construction) 1.8m high shoring timber on both sides of the MV cable trench. (General / Under Road Surface (Parallel to kerbing)) - Shoring to be designed by ECSA registered Civil / Structural engineer. | Linear Length - m | | | 0.00 | | | 0.00 | 0.00 |
| 4.33 | n/a | Perform cross-trenches / trial holes to determine the location of services. Cross-trenches to be reinstated to their original state. (Trench sizes are: 4m wide x 1m long x 1.8m deep = 7.2m ³) | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| Total | | | | | | 0.00 | | | 0.00 | 0.00 |

| Civil Contractor : MV Joint bays | | | | | | | | | | |
|----------------------------------|--|--|-------------------------|----------------------|------------------|-------------------|--------------------|----------------|-----------------|-------|
| Item | Reference: Drawing / Standard | Description | Unit | Material Quantity | Material Rate | Material Total | Labour Quantity | Labour Rate | Labour Total | Total |
| 5.1 | <u>D-DT-0854</u> and 240- 56030635 | Excavate by hand a 2m long x 1.5m wide x 1.2m deep joint bay. (Sfhale) | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 5.2 | <u>D-DT-0854</u> and 240- 56030635 | Excavate by hand a 2m long x 1.5m wide x 1.2m deep joint bay. (Soil) | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 5.3 | <u>D-DT-0854</u> and 240- 56030635 | Excavate by machine a 2m long x 1.5m wide x 1.2m deep joint bay. (Rock) | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 5.4 | <u>D-DT-0854</u> and 240- 56030635 | Excavate by machine a 2m long x 1.5m wide x 1.2m deep joint bay. (Shale) | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 5.5 | <u>D-DT-0854</u> and 240- 56030635 | Excavate by machine a 2m long x 1.5m wide x 1.2m deep joint bay. (Soil) | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 5.6 | <u>D-DT-0854</u> and 240- 56030635 | Supply, deliver, install (at the start of trenching) and decommission (after construction) 1.8m high shoring timber on both sides of the MV joint bay. (MV Joint bays are 10m long) - Shoring to be designed by ECSA registered Civil / Structural engineer. | Linear Length - m | | | 0.00 | | | 0.00 | 0.00 |
| 5.7 | n/a | Transport (from site) and store soil at suitable site. (First handling of soil). | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 5.8 | <u>D-DT-0854</u> | Transport (from site) and dump soil. (Bedding soil, blanket soil and trench stabilization soil.) (Material to be dumped at suitable site in accordance with the Maintenance Management plan / EMP .) | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 5.9 | <u>D-DT-0854</u> | Sift soil with sieve having a maximum mesh size of no greater than 12mm. (Bedding and blanket) | m ³ | | | 0.00 | | | 0.00 | 0.00 |

| | | | | | | | | | | |
|------|--|---|----------------|--|--|------|--|--|------|------|
| 5.10 | Local authority requirements or Civil Engineer's engineering report. | Supply (Import), install and hand / machine compact (90% MOD AASHTO) imported C4 soil for trench stabilization or backfill. | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 5.11 | Local authority requirements or Civil Engineer's engineering report. | Supply (Import), install and hand / machine compact (90% MOD AASHTO) imported C5 soil for trench stabilization or backfill. | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 5.12 | Local authority requirements or Civil Engineer's engineering report. | Supply (Import), install and hand / machine compact (90% MOD AASHTO) imported G4 soil for trench stabilization or backfill. | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 5.13 | Local authority requirements or Civil Engineer's engineering report. | Supply (Import), install and hand / machine compact (90% MOD AASHTO) imported G5 soil for trench stabilization or backfill. | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 5.14 | <u>SANS 10198 and D-DT-0854</u> | Backfill, sift and compact (in maximum layers of 300mm – 90% MOD AASHTO) original soil as backfill for MV cables. (Original excavated soil) | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 5.15 | <u>D-DT-0854</u> | Return (Transport), sift, backfill and compact (in maximum layers of 300mm – 90% MOD AASHTO) original soil as backfill for MV cable joints. (Original excavated soil; Second handling of soil.) | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 5.16 | <u>D-DT-0854</u> | Off-load and install Danger/Warning tape per MV joint bay. (The tape weighs about 22kg for 330m of tape.) | m | | | 0.00 | | | 0.00 | 0.00 |

PROVISION FOR MAINTENANCE AND REPAIRS OF HIGH VOLTAGE (6.6KV TO 33KV), OIL FILLED, OIL IMPREGNATED PAPER AND XLPE CABLES, WITHIN ESKOM DISTRIBUTION GAUTENG CLUSTER, FOR A PERIOD OF 2 YEARS ON AN "AS AND WHEN" REQUIRED BASIS

| | | | | | | | | | | |
|--------------|-----------|---|------|--|--|------|--|--|-------------------|-------------------|
| 5.17 | D-DT-0854 | Off-load and Install pre-cast concrete slabs (D-DT-8076, 760mm long, 200mm wide), in MV joint bays. | Each | | | 0.00 | | | 0.00 | 0.00 |
| Total | | | | | | 0.00 | | | Rates Only | Rates Only |

| Civil Contractor : Cable Route Markers | | | | | | | | | | |
|---|-------------------------------|---|------|-------------------|---------------|----------------|-----------------|-------------|-------------------|-------------------|
| Item | Reference: Drawing / Standard | Description | Unit | Material Quantity | Material Rate | Material Total | Labour Quantity | Labour Rate | Labour Total | Total |
| 6.1 | D-DT-8012 and 240-56030635 | Install cable route markers with name plates (Descriptor) along cable route length at intervals of 150m on straight sections, at each bend, at each road crossings, railway crossing, river crossing and each MV joint bay. (Base to be 250mm below ground level. If the route marker is installed on a paved or concrete surface, the top shall be flush with this surface.) | Each | | | 0.00 | | | 0.00 | 0.00 |
| 6.2 | D-DT-8012 and 240-56030635 | Engrave route markers. | Each | | | 0.00 | | | 0.00 | 0.00 |
| Total | | | | | | 0.00 | | | Rates Only | Rates Only |

| Civil Contractor : Removal of existing MV cable (where new cable isn't installed) | | | | | | | | | | |
|---|-------------------------------------|---|----------------|----------------------|------------------|-------------------|--------------------|----------------|-----------------|-------|
| Item | Reference: Drawing / Standard | Description | Unit | Material Quantity | Material Rate | Material Total | Labour Quantity | Labour Rate | Labour Total | Total |
| 7.1 | n/a | Excavate (by hand/machine) a sloped trench for the MV cable. (Note: Excavation to be done in sections at a time, to recover an entire drum's cable, before proceeding with the next section. After this, the trench must be backfilled, compacted and surfaces reinstated, etc. before continuing with the installation of the next section, unless directed otherwise on-site. The actual labour for backfilling, compacting, reinstatement, etc. will be covered in other activities.) (The existing cable must be used as reference, as to where trenching must be done.) - General, under road surface parallel to kerb. | m ³ | | | 0.00 | | | 0.00 | 0.00 |

| | | | | | | | | | | | |
|-----|---|--|----------------|--|--|--|------|--|--|------|------|
| 7.2 | n/a | Excavate (by hand/machine) a sloped trench for the MV cable. (Note: Excavation to be done in sections at a time, to recover an entire drum's cable, before proceeding with the next section. After this, the trench must be backfilled, compacted and surfaces reinstated, etc. before continuing with the installation of the next section, unless directed otherwise on-site. The actual labour for backfilling, compacting, reinstatement, etc. will be covered in other activities.) (The existing cable must be used as reference, as to where trenching must be done.) - Rail or road crossings | m ³ | | | | 0.00 | | | 0.00 | 0.00 |
| 7.3 | n/a | Backfill (with normal excavated soil) and compact (in maximum layers of 300mm – 90% MOD AASHTO) all the soil previously removed to recover the MV cable. | m ³ | | | | 0.00 | | | 0.00 | 0.00 |
| 7.4 | n/a | Remove (transport – First handling of soil), store, return (Second handling of soil), backfill (with normal excavated soil) and compact (in maximum layers of 300mm – 90% MOD AASHTO) all the soil previously removed to recover the MV cable. | m ³ | | | | 0.00 | | | 0.00 | 0.00 |
| 7.5 | Maintenance Management plan / EMP (if applicable) or Civil Engineer's engineering report (if applicable). | Chemical rock breaking. (Supply and apply safely) - Prior approval required. | Each | | | | 0.00 | | | 0.00 | 0.00 |
| 7.6 | Maintenance Management plan / EMP (if applicable) or Civil Engineer's engineering | Rock blasting. (Supply and apply safely) - Prior approval required. | Each | | | | 0.00 | | | 0.00 | 0.00 |

PRO PROVISION FOR MAINTENANCE AND REPAIRS OF HIGH VOLTAGE (6.6KV TO 33KV), OIL FILLED, OIL IMPREGNATED PAPER AND XLPE CABLES, WITHIN ESKOM DISTRIBUTION GAUTENG CLUSTER, FOR A PERIOD OF 2 YEARS ON AN "AS AND WHEN" REQUIRED BASIS

| | | | | | | | | | | |
|--------------|--|--|------|--|--|------|--|--|-------------------|-------------------|
| | report (if applicable). | | | | | | | | | |
| 7.7 | n/a | Transport and dump broken rock. (Material to be dumped at suitable site in accordance with the Maintenance Management plan / EMP .) | m³ | | | 0.00 | | | 0.00 | 0.00 |
| 7.8 | <u>D-DT-8012 and Maintenance Management plan / EMP</u> | Scrapping: Decommission and scrap route marker(s). Re-instate surfaces to original state. (All scrapped items / material to be taken back to Eskom Rosherville.) | Each | | | 0.00 | | | 0.00 | 0.00 |
| Total | | | | | | 0.00 | | | Rates Only | Rates Only |

| Civil Contractor : Reinstatement (For new cable and old cable to be decommissioned.) | | | | | | | | | | |
|---|--|--|-------------|--------------------------|----------------------|-----------------------|------------------------|--------------------|---------------------|--------------|
| Item | Reference: Drawing / Standard | Description | Unit | Material Quantity | Material Rate | Material Total | Labour Quantity | Labour Rate | Labour Total | Total |
| 8.1 | Local authority requirements or Civil Engineer's engineering report. | Remove asphalt surfaces up to 50mm thick, transport and dump material. (Material to be dumped at suitable site in accordance with the Maintenance Management plan / EMP .) | m³ | | | 0.00 | | | 0.00 | 0.00 |
| 8.2 | Local authority requirements or Civil | Remove asphalt surfaces above 50mm up to 100mm thick, transport and dump material. (Material to be dumped at suitable site in accordance with the Maintenance Management | m³ | | | 0.00 | | | 0.00 | 0.00 |

| | | | | | | | | | | |
|-----|---|--|----------------|--|--|------|--|--|------|------|
| | Engineer's engineering report. | plan / EMP .) | | | | | | | | |
| 8.3 | Local authority requirements or Civil Engineer's engineering report. | Remove asphalt surface above 100mm thickness, transport and dump material. (Material to be dumped at suitable site in accordance with the Maintenance Management plan / EMP .) | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 8.4 | Local authority requirements or Civil Engineer's engineering report, SANS 1200C, SANS 1200DM. | Supply and install, G7 material (In-situ if to specification), 150mm thick and compacted to 93% of mod AASHTO density. | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 8.5 | Local authority requirements or Civil Engineer's engineering report, SANS 1200C, SANS 1200DM. | Supply and install, G5 material (In-situ if to specification), 150mm thick and compacted to 95% of mod AASHTO density. | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 8.6 | Local authority requirements or Civil Engineer's engineering report, | Supply and install, G4 material (In-situ if to specification), 150mm thick and compacted to 95% of mod AASHTO density. | m ³ | | | 0.00 | | | 0.00 | 0.00 |

| | | | | | | | | | | |
|-----|---|--|----------------|--|--|--|------|--|------|------|
| | SANS 1200C, SANS 1200DM. | | | | | | | | | |
| 8.7 | Local authority requirements or Civil Engineer's engineering report, SANS 1200C, SANS 1200ME. | Supply and construct a 150mm thick C4 Subbase layer (Compacted to 95% mod. AASHTO density) | m ³ | | | | 0.00 | | 0.00 | 0.00 |
| 8.8 | Local authority requirements or Civil Engineer's engineering report, SANS 1200C, SANS 1200ME. | Supply and construct a 150mm thick C5 Subbase layer (Compacted to 95% mod. AASHTO density) | m ³ | | | | 0.00 | | 0.00 | 0.00 |
| 8.9 | Local authority requirements or Civil Engineer's engineering report, SANS 1200C, SANS 1200ME. | Stabilize Subbase | m ³ | | | | 0.00 | | 0.00 | 0.00 |

| | | | | | | | | | | |
|------|---|---|----------------|--|--|------|--|--|------|------|
| 8.10 | Local authority requirements or Civil Engineer's engineering report, SANS 1200C, SANS 1200ME. | Supply and install stabilizing agent (Cement) | kg | | | 0.00 | | | 0.00 | 0.00 |
| 8.11 | Local authority requirements or Civil Engineer's engineering report, SANS 1200C. | Supply and install asphalt up to 50mm thick | m ² | | | 0.00 | | | 0.00 | 0.00 |
| 8.12 | Local authority requirements or Civil Engineer's engineering report, SANS 1200C. | Supply and install asphalt above 50mm up to 100mm thick | m ² | | | 0.00 | | | 0.00 | 0.00 |
| 8.13 | Local authority requirements or Civil Engineer's engineering report, SANS 1200C. | Supply and install asphalt above 100mm thick | m ² | | | 0.00 | | | 0.00 | 0.00 |

PROVISION FOR MAINTENANCE AND REPAIRS OF HIGH VOLTAGE (6.6KV TO 33KV), OIL FILLED, OIL IMPREGNATED PAPER AND XLPE CABLES, WITHIN ESKOM DISTRIBUTION GAUTENG CLUSTER, FOR A PERIOD OF 2 YEARS ON AN "AS AND WHEN" REQUIRED BASIS

| | | | | | | | | | | | |
|------|--|---|----------------|--|--|--|------|--|--|------|------|
| 8.14 | Local authority requirements or Civil Engineer's engineering report, SANS 1200C. | Supply and install bitumen rubber seal for joint between concrete and asphalt surfaces. Rate includes joint forming and sealant. | m ² | | | | 0.00 | | | 0.00 | 0.00 |
| 8.15 | Civil Engineer's engineering report / SANS 1200. | Remove concrete surfaces up to 100mm in thickness, and sub layers (if applicable), transport and dump material. (Material to be dumped at suitable site in accordance with the Maintenance Management plan / EMP .) | m ³ | | | | 0.00 | | | 0.00 | 0.00 |
| 8.16 | Civil Engineer's engineering report / SANS 1200. | Remove concrete surfaces above 100mm up to 150mm in thickness, and sub layers (if applicable), transport and dump material. (Material to be dumped at suitable site in accordance with the Maintenance Management plan / EMP .) | m ³ | | | | 0.00 | | | 0.00 | 0.00 |
| 8.17 | Civil Engineer's engineering report / SANS 1200. | Remove concrete surfaces above 150mm up to 200mm in thickness, and sub layers (if applicable), transport and dump material. (Material to be dumped at suitable site in accordance with the Maintenance Management plan / EMP .) | m ³ | | | | 0.00 | | | 0.00 | 0.00 |
| 8.18 | Civil Engineer's engineering report / SANS 1200. | Remove concrete surfaces above 200mm up to 300mm in thickness, and sub layers (if applicable), transport and dump material. (Material to be dumped at suitable site in accordance with the Maintenance Management plan / EMP .) | m ³ | | | | 0.00 | | | 0.00 | 0.00 |
| 8.19 | Civil Engineer's engineering report / SANS 1200. | Supply and install concrete surface: 25MPa/ 19mm 100mm thick, wood floated finish to match existing. | m ² | | | | 0.00 | | | 0.00 | 0.00 |
| 8.20 | Civil Engineer's engineering report / | Supply and install concrete surface: 25MPa/ 19 mm 150mm thick, wood floated finish to match existing. | m ² | | | | 0.00 | | | 0.00 | 0.00 |

| | | | | | | | | | | |
|------|--|--|----------------|--|--|------|--|--|------|------|
| | SANS 1200. | | | | | | | | | |
| 8.21 | Civil Engineer's engineering report / SANS 1200. | Supply and install concrete surface: 25MPa/ 19mm 300mm thick, wood floated finish to match existing. | m ² | | | 0.00 | | | 0.00 | 0.00 |
| 8.22 | Civil Engineer's engineering report / SANS 1200. | Remove kerbs (up to 350mm high and 400mm wide), stockpile for re-use later. | m | | | 0.00 | | | 0.00 | 0.00 |
| 8.23 | Civil Engineer's engineering report / SANS 1200. | Reinstall concrete kerbs previously removed | m | | | 0.00 | | | 0.00 | 0.00 |
| 8.24 | Civil Engineer's engineering report / SANS 1200 GE | Supply and install semi-mountable concrete kerbing. | m | | | 0.00 | | | 0.00 | 0.00 |
| 8.25 | Civil Engineer's engineering report / SANS 1200 GE | Supply and install mountable concrete kerbing. | m | | | 0.00 | | | 0.00 | 0.00 |
| 8.26 | Civil Engineer's engineering report / SANS 1200. | Remove brick paving, stockpile for re-use later. | m ² | | | 0.00 | | | 0.00 | 0.00 |
| 8.27 | Civil Engineer's engineering report / SANS 1200. | Reinstall paving previously removed | m ² | | | 0.00 | | | 0.00 | 0.00 |

| | | | | | | | | | | |
|------|---|---|----------------|--|--|------|--|--|------|------|
| 8.28 | Civil Engineer's engineering report / SANS 1200. | Cutting of Brick Paving up to 50mm thickness. | m | | | 0.00 | | | 0.00 | 0.00 |
| 8.29 | Civil Engineer's engineering report / SANS 1200. | Cutting of Brick Paving above 50mm up to 100mm in thickness. | m | | | 0.00 | | | 0.00 | 0.00 |
| 8.30 | Civil Engineer's engineering report / SANS 1200MJ | Supply and install paving that matches existing (complete). Bricks laying pattern to match existing. | Cost plus fee | | | 0.00 | | | 0.00 | 0.00 |
| 8.31 | Civil Engineer's engineering report / SANS 1200MJ | Supply and install paving bedding sand 20 mm (compacted thickness), approved weed killer, and filler sand with grading less than 1.18 mm. | m ² | | | | | | | |
| 8.32 | Civil Engineer's engineering report / SANS 1200MJ | Cutting of paving bricks to fit edge restrains from paving of 80mm in thickness. | m | | | 0.00 | | | 0.00 | 0.00 |
| 8.33 | Civil Engineer's engineering report / SANS 1200MJ | Cutting of paving bricks to fit edge restrains from paving of 60mm in thickness. | m | | | 0.00 | | | 0.00 | 0.00 |
| 8.34 | n/a | Remove, transport, and safeguard fences from site. | m ² | | | 0.00 | | | 0.00 | 0.00 |
| 8.35 | n/a | Transport back and reinstate fences (previously stored) to its original state. | m ² | | | 0.00 | | | 0.00 | 0.00 |

| | | | | | | | | | | |
|------|--|--|----------------|--|--|------|--|--|------|------|
| 8.36 | Civil Engineer's engineering report / SANS 1200. | Break and remove single brick wall, transport and dump material. (Material to be dumped at suitable site in accordance with the Maintenance Management plan / EMP .) | m ² | | | 0.00 | | | 0.00 | 0.00 |
| 8.37 | Civil Engineer's engineering report / SANS 1200. | Break and remove double brick wall, transport and dump material. (Material to be dumped at suitable site in accordance with the Maintenance Management plan / EMP .) | m ² | | | 0.00 | | | 0.00 | 0.00 |
| 8.38 | Civil Engineer's engineering report / SANS 1200. | Supply and construct single brick wall, using clay bricks and Class II mortar for 110mm thickness. | m ² | | | 0.00 | | | 0.00 | 0.00 |
| 8.39 | Civil Engineer's engineering report / SANS 1200. | Supply and construct single brick wall, using clay bricks and Class II mortar for 230mm thickness. | m ² | | | 0.00 | | | 0.00 | 0.00 |
| 8.40 | Civil Engineer's engineering report / SANS 1200. | Supply and construct single brick wall, using clay bricks and Class II mortar for 345mm thickness. | m ² | | | 0.00 | | | 0.00 | 0.00 |
| 8.41 | Civil Engineer's engineering report / SANS 1200. | Supply and construct single brick wall, using face bricks and Class II mortar for 110mm thickness. | m ² | | | 0.00 | | | 0.00 | 0.00 |
| 8.42 | Civil Engineer's engineering report / SANS 1200. | Supply and construct single brick wall, using face bricks and Class II mortar for 230mm thickness. | m ² | | | 0.00 | | | 0.00 | 0.00 |
| 8.43 | Civil Engineer's engineering report / SANS 1200. | Supply and construct single brick wall, using face bricks and Class II mortar for 345mm thickness. | m ² | | | 0.00 | | | 0.00 | 0.00 |

| | | | | | | | | | | |
|------|--|--|----------------|--|--|------|--|--|------|------|
| 8.44 | Civil Engineer's engineering report / SANS 1200. | Supply and apply one layer cement plaster (12mm thick) on walls, Wood floated finish. | m ² | | | 0.00 | | | 0.00 | 0.00 |
| 8.45 | Civil Engineer's engineering report / SANS 1200. | Supply and apply one layer cement plaster (12mm thick) on walls, Steel floated finish. | m ² | | | 0.00 | | | 0.00 | 0.00 |
| 8.46 | Civil Engineer's engineering report / SANS 1200. | Supply and install waterproofing; PVC membrane 1.2 mm thick | m ² | | | 0.00 | | | 0.00 | 0.00 |
| 8.47 | Civil Engineer's engineering report / SANS 1200. | Supply and install waterproofing; PVC membrane 1.5 mm thick | m ² | | | 0.00 | | | 0.00 | 0.00 |
| 8.48 | Civil Engineer's engineering report / SANS 1200. | Supply and install waterproofing; PVC membrane 1.8 mm thick | m ² | | | 0.00 | | | 0.00 | 0.00 |
| 8.49 | Civil Engineer's engineering report / SANS 1200. | Supply and install waterproofing; PVC membrane 2.4 mm thick | m ² | | | 0.00 | | | 0.00 | 0.00 |
| 8.50 | Civil Engineer's engineering report / SANS 1200. | Supply and install waterproofing; Cold butemin application | m ² | | | 0.00 | | | 0.00 | 0.00 |
| 8.51 | Civil Engineer's engineering report / SANS 1200. | Supply and install waterproofing; Heat torch butemin application | m ² | | | 0.00 | | | 0.00 | 0.00 |

PROVISION FOR MAINTENANCE AND REPAIRS OF HIGH VOLTAGE (6.6KV TO 33KV), OIL FILLED, OIL IMPREGNATED PAPER AND XLPE CABLES, WITHIN ESKOM DISTRIBUTION GAUTENG CLUSTER, FOR A PERIOD OF 2 YEARS ON AN "AS AND WHEN" REQUIRED BASIS

| | | | | | | | | | | |
|--------------|-----|--|----------------|--|--|------|--|--|-------------------|-------------------|
| 8.52 | n/a | Painting - To match existing. | m ² | | | 0.00 | | | 0.00 | 0.00 |
| 8.53 | n/a | Reinstate gardens to its original state (Including racking). | m ² | | | 0.00 | | | 0.00 | 0.00 |
| 8.54 | n/a | Reinstate Lawn / veld to its original state (Including racking). | m ² | | | 0.00 | | | 0.00 | 0.00 |
| Total | | | | | | 0.00 | | | Rates Only | Rates Only |

Electrical Bill of Quantities

| Electrical Contractor : River crossing | | | | | | | | | | |
|--|-------------------------------|-------------|------|-------------------|---------------|----------------|-----------------|-------------|--------------|-------|
| Item | Reference: Drawing / Standard | Description | Unit | Material Quantity | Material Rate | Material Total | Labour Quantity | Labour Rate | Labour Total | Total |

| | | | | | | | | | | |
|--------------|-----|--|----------------|--|--|------|--|--|-------------------|-------------------|
| 2.1 | n/a | Supply, deliver and fill PVC / PE pipes, occupied by MV cable with bentonite and water mix (10:1) that is combined with a sand and cement mix (20:8) in the ratio of 100:1. The mix shall be kept in position by sealing the end of the pipe duct with densomastic paste (Supplied and installed by contractor) where the power cable enters and exits to prevent water ingress. | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| Total | | | | | | 0.00 | | | Rates Only | Rates Only |

| Electrical Contractor : Road crossing | | | | | | | | | | |
|---------------------------------------|-------------------------------|---|----------------|-------------------|---------------|----------------|-----------------|-------------|--------------|-------|
| Item | Reference: Drawing / Standard | Description | Unit | Material Quantity | Material Rate | Material Total | Labour Quantity | Labour Rate | Labour Total | Total |
| 3.1 | n/a | Supply, deliver and fill PVC / PE ducts with Power cable inside (total linear length longer than 3m) with bentonite and water mix (10:1) that is combined with a sand and cement mix (20:8) in the ratio of 100:1. The mix shall be kept in position by sealing the end of the pipe duct with densomastic paste (Supplied and installed by contractor) where the power cable enters and exits to prevent water ingress. | m ³ | | | 0.00 | | | 0.00 | 0.00 |

PRO PROVISION FOR MAINTENANCE AND REPAIRS OF HIGH VOLTAGE (6.6KV TO 33KV), OIL FILLED, OIL IMPREGNATED PAPER AND XLPE CABLES, WITHIN ESKOM DISTRIBUTION GAUTENG CLUSTER, FOR A PERIOD OF 2 YEARS ON AN "AS AND WHEN" REQUIRED BASIS

| | | | | | | | | | | |
|--------------|-----|---|-----|--|--|------|--|--|-------------------|-------------------|
| 3.2 | n/a | Supply, offload (transport) and install rot-proof bags containing a weak sand-cement mix (30:1) for a distance of approximately 0.5 m into the MV cable trench wherever cable enters or exists a pipe duct, to support the MV cable. | Bag | | | 0.00 | | | 0.00 | 0.00 |
| 3.3 | n/a | Supply, offload (transport) and install rot-proof bags containing a weak sand-cement mix (30:1) when constructing a road crossing. Bags to be placed such that it forms a double wall on both sides of the trench (for support). Bags to be re-used at crossings. | Bag | | | 0.00 | | | 0.00 | 0.00 |
| Total | | | | | | 0.00 | | | Rates Only | Rates Only |

| Electrical Contractor : MV Cable trenches | | | | | | | | | | |
|--|---------------------------------|---|------|-------------------|---------------|----------------|-----------------|-------------|-------------------|-------------------|
| Item | Reference: Drawing / Standard | Description | Unit | Material Quantity | Material Rate | Material Total | Labour Quantity | Labour Rate | Labour Total | Total |
| 4.1 | <u>SANS 10198 and D-DT-0854</u> | Supply (Import), install and hand compact (90% MOD AASHTO) imported 1.2 Km/W sifted soil as bedding and blanket for the MV cable. | m³ | | | 0.00 | | | 0.00 | 0.00 |
| 4.2 | <u>SANS 10198 and D-DT-0854</u> | Supply (Import), install and hand compact (90% MOD AASHTO) imported 1 Km/W sifted soil as bedding and blanket for the MV cable. | m³ | | | 0.00 | | | 0.00 | 0.00 |
| 4.3 | <u>SANS 10198 and D-DT-0854</u> | Supply (Import), install and hand compact (90% MOD AASHTO) imported 0.8 Km/W sifted soil as bedding and blanket for the MV cable. | m³ | | | 0.00 | | | 0.00 | 0.00 |
| 4.4 | <u>SANS 10198 and D-DT-0854</u> | Backfill sift and hand compact (90% MOD AASHTO) original soil as bedding and blanket for the MV cable. (Original excavated soil;) | m³ | | | 0.00 | | | 0.00 | 0.00 |
| 4.5 | <u>SANS 10198 and D-DT-0854</u> | Return (Transport), sift, backfill, and hand compact (90% MOD AASHTO) original soil as bedding and blanket for the MV cable. (Original excavated soil; Second handling of soil) | m³ | | | 0.00 | | | 0.00 | 0.00 |
| Total | | | | | | 0.00 | | | Rates Only | Rates Only |

| Electrical Contractor : MV Joint bays / trenches | | | | | | | | | | |
|--|--|--|----------------|----------------------|------------------|-------------------|--------------------|----------------|-----------------|-------|
| Item | Reference: Drawing / Standard | Description | Unit | Material Quantity | Material Rate | Material Total | Labour Quantity | Labour Rate | Labour Total | Total |
| 5.1 | <u>D-DT-0854</u> <u>and 240-</u> <u>56030635</u> | Supply (Import), install and hand compact (SANS 10198) imported sifted 1.2 Km/W soil around MV cable joints. | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 5.2 | <u>D-DT-0854</u> <u>and 240-</u> <u>56030635</u> | Supply (Import), install and hand compact (SANS 10198) imported sifted 1 Km/W soil around MV cable joints. | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 5.3 | <u>D-DT-0854</u> <u>and 240-</u> <u>56030635</u> | Supply (Import), install and hand compact (SANS 10198) imported sifted 0.8 Km/W soil around MV cable joints. | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 5.4 | <u>D-DT-0854</u> <u>and 240-</u> <u>56030635</u> | Backfill, sift and hand compact (90% MOD AASHTO) original excavated soil as bedding and blanket for the MV cable joint. (Original excavated soil;) | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 5.5 | <u>D-DT-0854</u> <u>and 240-</u> <u>56030635</u> | Return (Transport), sift, backfill, and hand compact (90% MOD AASHTO) original excavated soil as bedding and blanket for the MV cable joint.) | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| Total | | | | | | 0.00 | | | 0.00 | 0.00 |

| Electrical Contractor : Removal of existing MV cable | | | | | | | | | | |
|--|---------------------------------------|---|------|----------------------|------------------|-------------------|--------------------|----------------|-----------------------|-----------------------|
| Item | Reference: Drawing / Standard | Description | Unit | Material Quantity | Material Rate | Material Total | Labour Quantity | Labour Rate | Labour Total | Total |
| 6.1 | n/a | Recover in good order: Remove MV cable from open trench (site), and drum cable. (Drum to be supplied by contractor.) Drummed cable to be Transported to Eskom Rosherville stores. (A maximum of 300m of cable to be placed on a drum). Ends of cable to be sealed off with suitable caps. | m | | | 0.00 | | | 0.00 | 0.00 |
| 6.2 | D-DT-2879 or other suitable cap | Cut and cap cable. | Each | | | 0.00 | | | 0.00 | 0.00 |
| Total | | | | | | 0.00 | | | Rates Only | Rates Only |

| Electrical Contractor : MV Cable installation | | | | | | | | | | |
|---|-------------------------------------|---|------|----------------------|------------------|-------------------|--------------------|----------------|-----------------|-------|
| Item | Reference: Drawing / Standard | Description | Unit | Material Quantity | Material Rate | Material Total | Labour Quantity | Labour Rate | Labour Total | Total |
| 7.1 | n/a | In unstable areas shorter than 10m along the MV cable route length, supply, offload (transport) and install rot-proof bags containing a weak sand-cement mix (30:1) such that it lines the bottom of the MV cable trench. The number of bags used will depend upon the ground softness. | Bag | | | 0.00 | | | 0.00 | 0.00 |

PROVISION FOR MAINTENANCE AND REPAIRS OF HIGH VOLTAGE (6.6KV TO 33KV), OIL FILLED, OIL IMPREGNATED PAPER AND XLPE CABLES, WITHIN ESKOM DISTRIBUTION GAUTENG CLUSTER, FOR A PERIOD OF 2 YEARS ON AN "AS AND WHEN" REQUIRED BASIS

| | | | | | | | | | | |
|--------------|------------------|--|----------------|--|--|------|--|--|------|------|
| 7.2 | <u>D-DT-0854</u> | Lay / pull and install MV 3-Core cable into open trench and inside pipes. | m | | | 0.00 | | | 0.00 | 0.00 |
| 7.3 | <u>D-DT-0854</u> | Lay / pull and install MV 1-Core cable into open trench and inside pipes. | m | | | 0.00 | | | 0.00 | 0.00 |
| 7.4 | <u>n/a</u> | Supply and install concrete screed, 50mm high, with a cement to sand ratio of 1:5, inside cable trench. | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 7.5 | <u>n/a</u> | Encase MV cable and selected accessories (including bedding and blanket soil layers) to prevent theft. Solution may not affect thermal resistivity of surrounding soil or heat dissipation from cable. Solution must have a means to remove encasement for instances where Eskom needs to perform maintenance. | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| Total | | | | | | 0.00 | | | 0.00 | 0.00 |

| Electrical Contractor : MV Joint installation | | | | | | | | | | |
|---|----------------------------------|--|------|-------------------|---------------|----------------|-----------------|-------------|--------------|-------|
| Item | Reference: Drawing / Standard | Description | Unit | Material Quantity | Material Rate | Material Total | Labour Quantity | Labour Rate | Labour Total | Total |
| 8.1 | <u>D-DT-8007 & D-DT-8008</u> | Make-Off a Cable Joint - 3-Core <=95mm sq MV Cable (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each | | | 0.00 | | | 0.00 | 0.00 |
| 8.2 | <u>D-DT-8007 & D-DT-8008</u> | Make-Off a Cable Joint - 3-Core <=185mm sq MV Cable (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each | | | 0.00 | | | 0.00 | 0.00 |
| 8.3 | <u>D-DT-8007 & D-DT-8008</u> | Make-Off a Cable Joint - 3-Core <=400mm sq MV Cable (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each | | | 0.00 | | | 0.00 | 0.00 |
| 8.4 | <u>D-DT-8007 & D-DT-8008</u> | Make-Off a Cable Joint - 1-Core <=185mm sq MV Cable (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each | | | 0.00 | | | 0.00 | 0.00 |
| 8.5 | <u>D-DT-8007 & D-DT-</u> | Make-Off a Cable Joint - 1-Core <=400mm sq MV Cable (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / | Each | | | 0.00 | | | 0.00 | 0.00 |

| | | | | | | | | | | |
|------|--|--|------|--|--|------|--|--|------|------|
| | <u>8008</u> | Al) | | | | | | | | |
| 8.6 | <u>D-DT-8007</u> & <u>D-DT-8008</u> | Make-Off a Cable Joint - 1-Core <=800mm sq MV Cable (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each | | | 0.00 | | | 0.00 | 0.00 |
| 8.7 | <u>D-DT-8007</u> , <u>D-DT-8008</u> , <u>D-DT-8004</u> & <u>D-DT-8017</u> | Make-Off a Cable Trifurcating Joint - 3 Core to 1-Core <=95mm sq MV Cable (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each | | | 0.00 | | | 0.00 | 0.00 |
| 8.8 | <u>D-DT-8007</u> , <u>D-DT-8008</u> , <u>D-DT-8004</u> & <u>D-DT-8017</u> | Make-Off a Cable Trifurcating Joint - 3 Core to 1-Core <=185mm sq MV Cable (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each | | | 0.00 | | | 0.00 | 0.00 |
| 8.9 | <u>D-DT-8007</u> , <u>D-DT-8008</u> , <u>D-DT-8004</u> & <u>D-DT-8017</u> | Make-Off a Cable Trifurcating Joint - 3-Core to 1-Core <=400mm sq MV Cable (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each | | | 0.00 | | | 0.00 | 0.00 |
| 8.10 | <u>D-DT-8021</u> | Make-Off a Cable Transition Joint - 3-Core <=95mm sq MV Cable (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each | | | 0.00 | | | 0.00 | 0.00 |
| 8.11 | <u>D-DT-8021</u> | Make-Off a Cable Transition Joint - 3-Core <=185mm sq MV Cable (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each | | | 0.00 | | | 0.00 | 0.00 |
| 8.12 | <u>D-DT-8021</u> | Make-Off a Cable Transition Joint - 3-Core <=400mm sq MV Cable (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each | | | 0.00 | | | 0.00 | 0.00 |
| 8.13 | <u>D-DT-8021</u> | Make-Off a Cable Trifurcating Transition Joint - 3-Core to 1-Core <=95mm sq MV Cable (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each | | | 0.00 | | | 0.00 | 0.00 |
| 8.14 | <u>D-DT-8021</u> | Make-Off a Cable Trifurcating Transition Joint - 3-Core to 1-Core <=185mm sq MV Cable (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each | | | 0.00 | | | 0.00 | 0.00 |
| 8.15 | <u>D-DT-8021</u> | Make-Off a Cable Trifurcating Transition Joint - 3-Core to 1-Core <=400mm sq MV Cable (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each | | | 0.00 | | | 0.00 | 0.00 |

PRO PROVISION FOR MAINTENANCE AND REPAIRS OF HIGH VOLTAGE (6.6KV TO 33KV), OIL FILLED, OIL IMPREGNATED PAPER AND XLPE CABLES, WITHIN ESKOM DISTRIBUTION GAUTENG CLUSTER, FOR A PERIOD OF 2 YEARS ON AN "AS AND WHEN" REQUIRED BASIS

| | | | | | | | | | | |
|--------------|------------------|--|------|--|--|------|--|--|------|-------------------|
| 8.16 | <u>D-DT-2808</u> | Make-Off a (long) Cable Joint - 3-Core <=95mm sq MV Cable (33 kV, XLPE, Cu / Al) | Each | | | 0.00 | | | 0.00 | 0.00 |
| 8.17 | <u>D-DT-2808</u> | Make-Off a (long) Cable Joint - 3-Core <=185mm sq MV Cable (33 kV, XLPE, Cu / Al) | Each | | | 0.00 | | | 0.00 | 0.00 |
| 8.18 | <u>D-DT-2808</u> | Make-Off a (long) Cable Joint - 3-Core <=400mm sq MV Cable (33 kV, XLPE, Cu / Al) | Each | | | 0.00 | | | 0.00 | 0.00 |
| 8.19 | <u>D-DT-8008</u> | Make-Off a Cable Joint - 3-Core <=95mm sq MV Cable (33 kV, XLPE, Cu / Al) | Each | | | 0.00 | | | 0.00 | 0.00 |
| 8.20 | <u>D-DT-8008</u> | Make-Off a Cable Joint - 3-Core <=185mm sq MV Cable (33 kV, XLPE, Cu / Al) | Each | | | 0.00 | | | 0.00 | 0.00 |
| 8.21 | <u>D-DT-8008</u> | Make-Off a Cable Joint - 3-Core <=300mm sq MV Cable (33 kV, XLPE, Cu / Al) | Each | | | 0.00 | | | 0.00 | 0.00 |
| 8.22 | <u>D-DT-8008</u> | Make-Off a Cable Joint - 1-Core <=185mm sq MV Cable (33 kV, XLPE, Cu / Al) | Each | | | 0.00 | | | 0.00 | 0.00 |
| 8.23 | <u>D-DT-8008</u> | Make-Off a Cable Joint - 1-Core <=300mm sq MV Cable (33 kV, XLPE, Cu / Al) | Each | | | 0.00 | | | 0.00 | 0.00 |
| 8.24 | <u>D-DT-8008</u> | Make-Off a Cable Joint - 1-Core <=630mm sq MV Cable (33 kV, XLPE, Cu / Al) | Each | | | 0.00 | | | 0.00 | 0.00 |
| 8.25 | <u>D-DT-8008</u> | Make-Off a Cable Transition Trifurcating Joint - 3-Core to 1-Core <=95mm sq MV Cable (33 kV, XLPE, Cu / Al) | Each | | | 0.00 | | | 0.00 | 0.00 |
| 8.26 | <u>D-DT-8008</u> | Make-Off a Cable Trifurcating Transition Joint - 3-Core to 1-Core <=185mm sq MV Cable (33 kV, XLPE, Cu / Al) | Each | | | 0.00 | | | 0.00 | 0.00 |
| 8.27 | <u>D-DT-8021</u> | Make-Off a Cable Trifurcating Transition Joint - 3-Core to 1-Core <=95mm sq MV Cable (33 kV, XLPE, Cu / Al) | Each | | | 0.00 | | | 0.00 | 0.00 |
| 8.28 | <u>D-DT-8021</u> | Make-Off a Cable Trifurcating Transition Joint - 3-Core to 1-Core <=185mm sq MV Cable (33 kV, XLPE, Cu / Al) | Each | | | 0.00 | | | 0.00 | 0.00 |
| 8.29 | <u>D-DT-8021</u> | Make-Off a Cable Trifurcating Transition Joint - 3-Core to 1-Core <=400mm sq MV Cable (33 kV, XLPE, Cu / Al) | Each | | | 0.00 | | | 0.00 | 0.00 |
| Total | | | | | | 0.00 | | | 0.00 | Rates Only |

Electrical Contractor : MV Termination installation

| Item | Reference: Drawing / Standard | Description | Unit | Material Quantity | Material Rate | Material Total | Labour Quantity | Labour Rate | Labour Total | Total |
|------|--|--|------------|----------------------|------------------|-------------------|--------------------|----------------|-----------------|-------|
| 9.1 | <u>D-DT-8005</u> & <u>D-DT-8006</u> | Install 3-Core <= 95mm sq Indoor Termination (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |
| 9.2 | <u>D-DT-8005</u> & <u>D-DT-8006</u> | Install 3-Core <= 95mm sq Shroud (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |
| 9.3 | <u>D-DT-8005</u> & <u>D-DT-8006</u> | Install 3-Core <= 95mm sq Unscreened Separable Connector Termination (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |
| 9.4 | <u>D-DT-8005</u> & <u>D-DT-8006</u> | Install 3-Core <= 95mm sq Unscreened Separable Connector Extended Screen Termination (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |
| 9.5 | <u>D-DT-8005</u> & <u>D-DT-8006</u> | Install 3-Core <= 95mm sq Screened Separable Connector Termination (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |
| 9.6 | <u>D-DT-8005</u> & <u>D-DT-8006</u> | Install 3-Core <= 95mm sq Screened Separable Connector Extended Screen Termination (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |
| 9.7 | <u>D-DT-8005</u> & <u>D-DT-8006</u> | Install 3-Core <= 185mm sq Indoor Termination (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |
| 9.8 | <u>D-DT-8005</u> & <u>D-DT-8006</u> | Install 3-Core <= 185mm sq Shroud (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |
| 9.9 | <u>D-DT-8005</u> & <u>D-DT-8006</u> | Install 3-Core <= 185mm sq Unscreened Separable Connector Termination (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |
| 9.10 | <u>D-DT-8005</u> & <u>D-DT-8006</u> | Install 3-Core <= 185mm sq Unscreened Separable Connector Extended Screen Termination (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |
| 9.11 | <u>D-DT-8005</u> & <u>D-DT-8006</u> | Install 3-Core <= 185mm sq Screened Separable Connector Termination (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |
| 9.12 | <u>D-DT-8005</u> & <u>D-DT-8006</u> | Install 3-Core <= 185mm sq Screened Separable Connector Extended Screen Termination (6.6 kV / | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |

| | | | | | | | | | | |
|------|--|--|------------|--|--|------|--|--|------|------|
| | <u>8006</u> | 11 kV / 22 kV, PILC / XLPE, Cu / Al) | | | | | | | | |
| 9.13 | <u>D-DT-8005</u> & <u>D-DT-8006</u> | Install 3-Core <= 400mm sq Indoor Termination (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |
| 9.14 | <u>D-DT-8005</u> & <u>D-DT-8006</u> | Install 3-Core <= 400mm sq Shroud (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |
| 9.15 | <u>D-DT-8005</u> & <u>D-DT-8006</u> | Install 3-Core <= 400mm sq Unscreened Separable Connector Termination (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |
| 9.16 | <u>D-DT-8005</u> & <u>D-DT-8006</u> | Install 3-Core <= 400mm sq Unscreened Separable Connector Extended Screen Termination (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |
| 9.17 | <u>D-DT-8005</u> & <u>D-DT-8006</u> | Install 3-Core <= 400mm sq Screened Separable Connector Termination (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |
| 9.18 | <u>D-DT-8005</u> & <u>D-DT-8006</u> | Install 3-Core <= 400mm sq Screened Separable Connector Extended Screen Termination (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |
| 9.19 | <u>D-DT-8006</u> | Install 3-Core <= 95mm sq Indoor Termination (33 kV, XLPE, Cu / Al) - Complete will all associated accessories. | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |
| 9.20 | <u>D-DT-8006</u> | Install 3-Core <= 185mm sq Indoor Termination (33 kV, XLPE, Cu / Al) - Complete will all associated accessories. | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |
| 9.21 | <u>D-DT-8006</u> | Install 3-Core <= 300mm sq Indoor Termination (33 kV, XLPE, Cu / Al) - Complete will all associated accessories. | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |
| 9.22 | <u>D-DT-8005</u> , <u>D-DT-8006</u> , <u>D-DT-0850</u> , <u>D-DT-0851</u> & <u>D-DT-0852</u> | Install 3-Core <=95mm sq Outdoor Termination (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |
| 9.23 | <u>D-DT-8005</u> , <u>D-DT-8006</u> , <u>D-DT-0850</u> , <u>D-DT-0851</u> | Install 3-Core <=185mm sq Outdoor Termination (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |

| | | | | | | | | | | |
|------|---|--|------------|--|--|------|--|--|------|------|
| | <u>& D-DT-0852</u> | | | | | | | | | |
| 9.24 | <u>D-DT-8005,</u> <u>D-DT-8006,</u> <u>D-DT-0850,</u> <u>D-DT-0851</u> <u>& D-DT-0852</u> | Install 3-Core <=400mm sq Outdoor Termination (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |
| 9.25 | <u>D-DT-8006,</u> <u>D-DT-2806,</u> <u>D-DT-0850,</u> <u>D-DT-0851</u> <u>& D-DT-0852</u> | Install 3-Core <=95mm sq Outdoor Termination (33 kV, XLPE, Cu / Al) | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |
| 9.26 | <u>D-DT-8006,</u> <u>D-DT-0850,</u> <u>D-DT-0851</u> <u>& D-DT-0852</u> | Install 3-Core <=185mm sq Outdoor Termination (33 kV, XLPE, Cu / Al) | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |
| 9.27 | <u>D-DT-8006,</u> <u>D-DT-0850,</u> <u>D-DT-0851</u> <u>& D-DT-0852</u> | Install 3-Core <=400mm sq Outdoor Termination (33 kV, XLPE, Cu / Al) | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |
| 9.28 | <u>D-DT-8005</u> <u>& D-DT-8006</u> | Install 1-Core <= 185mm sq Indoor Termination (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |
| 9.29 | <u>D-DT-8005</u> <u>& D-DT-8006</u> | Install 1-Core <= 185mm sq Shroud (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |
| 9.30 | <u>D-DT-8005</u> <u>& D-DT-8006</u> | Install 1-Core <= 185mm sq Unscreened Separable Connector Termination (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |
| 9.31 | <u>D-DT-8005</u> <u>& D-DT-8006</u> | Install 1-Core <= 185mm sq Unscreened Separable Connector Extended Screen Termination (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |
| 9.32 | <u>D-DT-8005</u> <u>& D-DT-</u> | Install 1-Core <= 185mm sq Screened Separable Connector Termination (6.6 kV / 11 kV / 22 kV, | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |

PROVISION FOR MAINTENANCE AND REPAIRS OF HIGH VOLTAGE (6.6KV TO 33KV), OIL FILLED, OIL IMPREGNATED PAPER AND XLPE CABLES, WITHIN ESKOM DISTRIBUTION GAUTENG CLUSTER, FOR A PERIOD OF 2 YEARS ON AN "AS AND WHEN" REQUIRED BASIS

| | | | | | | | | | | |
|------|--|--|------------|--|--|------|--|--|------|------|
| | <u>8006</u> | PILC / XLPE, Cu / Al) | | | | | | | | |
| 9.33 | <u>D-DT-8005</u> & <u>D-DT-8006</u> | Install 1-Core <= 185mm sq Screened Separable Connector Extended Screen Termination (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |
| 9.34 | <u>D-DT-8005</u> & <u>D-DT-8006</u> | Install 1-Core <= 400mm sq Indoor Termination (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |
| 9.35 | <u>D-DT-8005</u> & <u>D-DT-8006</u> | Install 1-Core <= 400mm sq Shroud (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |
| 9.36 | <u>D-DT-8005</u> & <u>D-DT-8006</u> | Install 1-Core <= 400mm sq Unscreened Separable Connector Termination (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |
| 9.37 | <u>D-DT-8005</u> & <u>D-DT-8006</u> | Install 1-Core <= 400mm sq Unscreened Separable Connector Extended Screen Termination (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |
| 9.38 | <u>D-DT-8005</u> & <u>D-DT-8006</u> | Install 1-Core <= 400mm sq Screened Separable Connector Termination (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |
| 9.39 | <u>D-DT-8005</u> & <u>D-DT-8006</u> | Install 1-Core <= 400mm sq Screened Separable Connector Extended Screen Termination (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |
| 9.40 | <u>D-DT-8005</u> & <u>D-DT-8006</u> | Install 1-Core <= 800mm sq Indoor Termination (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |
| 9.41 | <u>D-DT-8005</u> & <u>D-DT-8006</u> | Install 1-Core <= 800mm sq Shroud (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |
| 9.42 | <u>D-DT-8005</u> & <u>D-DT-8006</u> | Install 1-Core <= 800mm sq Unscreened Separable Connector Termination (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |
| 9.43 | <u>D-DT-8005</u> & <u>D-DT-8006</u> | Install 1-Core <= 800mm sq Unscreened Separable Connector Extended Screen Termination (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |
| 9.44 | <u>D-DT-8005</u> & <u>D-DT-8006</u> | Install 1-Core <= 800mm sq Screened Separable Connector Termination (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |

PRO PROVISION FOR MAINTENANCE AND REPAIRS OF HIGH VOLTAGE (6.6KV TO 33KV), OIL FILLED, OIL IMPREGNATED PAPER AND XLPE CABLES, WITHIN ESKOM DISTRIBUTION GAUTENG CLUSTER, FOR A PERIOD OF 2 YEARS ON AN "AS AND WHEN" REQUIRED BASIS

| | | | | | | | | | | |
|------|---|--|------------|--|--|------|--|--|------|------|
| 9.45 | <u>D-DT-8005</u> & <u>D-DT-8006</u> | Install 1-Core <= 800mm sq Screened Separable Connector Extended Screen Termination (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |
| 9.46 | <u>D-DT-8006</u> | Install 1-Core <= 185mm sq Indoor Termination (33 kV XLPE, Cu / Al) - Complete will all associated accessories. | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |
| 9.47 | <u>D-DT-8006</u> | Install 1-Core <= 400mm sq Indoor Termination (33 kV, XLPE, Cu / Al) - Complete will all associated accessories. | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |
| 9.48 | <u>D-DT-8006</u> | Install 1-Core <= 630mm sq Indoor Termination (33 kV, XLPE, Cu / Al) - Complete will all associated accessories. | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |
| 9.49 | <u>D-DT-8005,</u> <u>D-DT-8006,</u> <u>D-DT-0850,</u> <u>D-DT-0851</u> & <u>D-DT-0852</u> | Install 1-Core <=185mm sq Outdoor Termination (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |
| 9.50 | <u>D-DT-8005,</u> <u>D-DT-8006,</u> <u>D-DT-0850,</u> <u>D-DT-0851</u> & <u>D-DT-0852</u> | Install 1-Core <=400mm sq Outdoor Termination (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |
| 9.51 | <u>D-DT-8005,</u> <u>D-DT-8006,</u> <u>D-DT-0850,</u> <u>D-DT-0851</u> & <u>D-DT-0852</u> | Install 1-Core <=800mm sq Outdoor Termination (6.6 kV / 11 kV / 22 kV, PILC / XLPE, Cu / Al) | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |
| 9.52 | <u>D-DT-8006,</u> <u>D-DT-0850,</u> <u>D-DT-0851</u> & <u>D-DT-0852</u> | Install 1-Core <=185mm sq Outdoor Termination (33 kV, XLPE, Cu / Al) | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |
| 9.53 | <u>D-DT-8006,</u> <u>D-DT-0850,</u> <u>D-DT-0851</u> & <u>D-DT-0852</u> | Install 1-Core <=400mm sq Outdoor Termination (33 kV, XLPE, Cu / Al) | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |

| | | | | | | | | | | |
|------|---|--|----------------|--|--|------|--|--|------|------|
| 9.54 | D-DT-8006, D-DT-0850, D-DT-0851 & D-DT-0852 | Install 1-Core <=630mm sq Outdoor Termination (33 kV, XLPE, Cu / Al) | Each (kit) | | | 0.00 | | | 0.00 | 0.00 |
| 9.55 | D-DT-0850, D-DT-0851 and D-DT-0852 | Install Equipment Links; 3-Phase | Each | | | 0.00 | | | 0.00 | 0.00 |
| 9.56 | D-DT-0850, D-DT-0851 and D-DT-0852 | Install cable support bracket and surge arresters - 3-Phase | Each | | | 0.00 | | | 0.00 | 0.00 |
| 9.57 | D-DT-0850, D-DT-0851 and D-DT-0852 | Install a Steel Pipe | Each | | | 0.00 | | | 0.00 | 0.00 |
| 9.58 | D-DT-0850, D-DT-0851 and D-DT-0852 | Install Anti-climb device | Each | | | 0.00 | | | 0.00 | 0.00 |
| 9.59 | D-DT-0850, D-DT-0851 and D-DT-0852 | Install Danger label | Each | | | 0.00 | | | 0.00 | 0.00 |
| 9.60 | 240- 56030635 | Stencilling | p/letter | | | 0.00 | | | 0.00 | 0.00 |
| 9.61 | 240- 56030635 | Install Labels (Chromadek and Aluminium) | Each | | | 0.00 | | | 0.00 | 0.00 |
| 9.62 | D-DT-0855, 240- 56030635 and 240- 130615754 | Excavation - length long, 0.5m deep and 0.6m wide | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 9.63 | D-DT-0855, 240- 56030635 and 240- 130615754 | Install 16mm sq bare Stranded Cu Conductor | m | | | 0.00 | | | 0.00 | 0.00 |

PROVISION FOR MAINTENANCE AND REPAIRS OF HIGH VOLTAGE (6.6KV TO 33KV), OIL FILLED, OIL IMPREGNATED PAPER AND XLPE CABLES, WITHIN ESKOM DISTRIBUTION GAUTENG CLUSTER, FOR A PERIOD OF 2 YEARS ON AN "AS AND WHEN" REQUIRED BASIS

| | | | | | | | | | | |
|--------------|---|---|----------------|--|--|------|--|--|------|-------------------|
| 9.64 | D-DT-0855, 240- 56030635 and 240- 130615754 | Install 16mm sq insulated Stranded Cu Conductor | m | | | 0.00 | | | 0.00 | 0.00 |
| 9.65 | D-DT-0855, 240- 56030635 and 240- 130615754 | Install earth rods | Each | | | 0.00 | | | 0.00 | 0.00 |
| 9.66 | D-DT-0855, 240- 56030635 and 240- 130615754 | Install Earth Electrode | Each | | | 0.00 | | | 0.00 | 0.00 |
| 9.67 | D-DT-0855, 240- 56030635 and 240- 130615754 | Backfill - length long, 0.5m deep and 0.6m wide | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 9.68 | 240- 56030635 | Install external warning flash label | Each | | | 0.00 | | | 0.00 | 0.00 |
| 9.69 | D-DT-8019 | Install cable clamps. | Each | | | 0.00 | | | 0.00 | 0.00 |
| 9.70 | 240- 56030635 | Label switchgear | Each | | | 0.00 | | | 0.00 | 0.00 |
| 9.71 | 240- 56030635 | Label Cable on Al flat plate | Each | | | 0.00 | | | 0.00 | 0.00 |
| 9.72 | 240- 56030635 | Label cable at Overhead line termination | Each | | | 0.00 | | | 0.00 | 0.00 |
| 9.73 | 240- 120804300 | Substation label | Each | | | 0.00 | | | 0.00 | 0.00 |
| 9.74 | 240- 56030635 | Install Earth Fault Indicator EFI, with CT | Each | | | 0.00 | | | 0.00 | 0.00 |
| 9.75 | n/a | Reseal cable after installation in wall. - Prior approval required. | Each | | | 0.00 | | | 0.00 | 0.00 |
| Total | | | | | | 0.00 | | | 0.00 | Rates Only |

| Electrical Contractor : Miniature Substation | | | | | | | | | | |
|--|---|--|----------------|----------------------|------------------|-------------------|--------------------|----------------|-----------------|-------|
| Item | Reference: Drawing / Standard | Description | Unit | Material Quantity | Material Rate | Material Total | Labour Quantity | Labour Rate | Labour Total | Total |
| 10.1 | 240- 56030635 | Prepare Site Including Excavation and Compaction for Pre-Cast Plinth | m ² | | | 0.00 | | | 0.00 | 0.00 |
| 10.2 | D-DT-0859 | Install Pre-Cast Plinth | Each | | | 0.00 | | | 0.00 | 0.00 |
| 10.3 | D-DT-0859 | M/Sub - Cast on site plinth | Each | | | 0.00 | | | 0.00 | 0.00 |
| 10.4 | D-DT-0859 | Install Miniature Substation (Type A or Type B) | Each | | | 0.00 | | | 0.00 | 0.00 |
| 10.5 | 240- 56030635 | Close cable entry and vermin Proofing | Each | | | 0.00 | | | 0.00 | 0.00 |
| 10.6 | 240- 56030635 | Stencilling | p/letter | | | 0.00 | | | 0.00 | 0.00 |
| 10.7 | 240- 56030635 | Install Labels (Chromadek and Aluminium) | Each | | | 0.00 | | | 0.00 | 0.00 |
| 10.8 | D-DT-0855, 240- 56030635 and 240- 130615754 | Excavation - length long, 0.5m deep and 0.6m wide | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 10.9 | D-DT-0855, 240- 56030635 and 240- 130615754 | Install 16mm sq bare Stranded Cu Conductor | m | | | 0.00 | | | 0.00 | 0.00 |
| 10.10 | D-DT-0855, 240- 56030635 and 240- 130615754 | Install 16mm sq insulated Stranded Cu Conductor | m | | | 0.00 | | | 0.00 | 0.00 |
| 10.11 | D-DT-0855, 240- 56030635 and 240- 130615754 | Install earth rods | Each | | | 0.00 | | | 0.00 | 0.00 |

PRO PROVISION FOR MAINTENANCE AND REPAIRS OF HIGH VOLTAGE (6.6KV TO 33KV), OIL FILLED, OIL IMPREGNATED PAPER AND XLPE CABLES, WITHIN ESKOM DISTRIBUTION GAUTENG CLUSTER, FOR A PERIOD OF 2 YEARS ON AN "AS AND WHEN" REQUIRED BASIS

| | | | | | | | | | | |
|--------------|---|---|----------------|--|--|------|--|--|------|------|
| 10.12 | D-DT-0855, 240- 56030635 and 240- 130615754 | Install Earth Electrode with continuous earthing back to source substation (MV & LV) | Each | | | 0.00 | | | 0.00 | 0.00 |
| 10.13 | D-DT-0855, 240- 56030635 and 240- 130615754 | Install Earth Electrode without continuous earthing back to source substation (MV & LV) | Each | | | 0.00 | | | 0.00 | 0.00 |
| 10.14 | D-DT-0855, 240- 56030635 and 240- 130615754 | Backfill - length long, 0.5m deep and 0.6m wide | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 10.15 | 240- 56030635 | Install external warning flash label | Each | | | 0.00 | | | 0.00 | 0.00 |
| Total | | | | | | 0.00 | | | 0.00 | 0.00 |

| Electrical Contractor : Ring Main Unit | | | | | | | | | | |
|--|-------------------------------|--|----------------|-------------------|---------------|----------------|-----------------|-------------|--------------|-------|
| Item | Reference: Drawing / Standard | Description | Unit | Material Quantity | Material Rate | Material Total | Labour Quantity | Labour Rate | Labour Total | Total |
| 11.1 | 240- 56030635 | Prepare Site Including Excavation and Compaction for Pre-Cast Plinth | m ² | | | 0.00 | | | 0.00 | 0.00 |
| 11.2 | D-DT-0863 | Install Pre-Cast Plinth | Each | | | 0.00 | | | 0.00 | 0.00 |
| 11.3 | D-DT-0863 | RMU - Cast on site plinth | Each | | | 0.00 | | | 0.00 | 0.00 |
| 11.4 | D-DT-0863 | Install Ring Main Unit | Each | | | 0.00 | | | 0.00 | 0.00 |
| 11.5 | 240- 56030635 | Close cable entry and vermin Proofing | Each | | | 0.00 | | | 0.00 | 0.00 |
| 11.6 | 240- | Stencilling | p/letter | | | 0.00 | | | 0.00 | 0.00 |

| | | | | | | | | | | |
|-------|---|---|----------------|--|--|------|--|--|------|------|
| | <u>56030635</u> | | | | | | | | | |
| 11.7 | 240- 56030635 | Install Labels (Chromadek and Aluminium) | Each | | | 0.00 | | | 0.00 | 0.00 |
| 11.8 | D-DT-0862, D-DT-0865, 240- 56030635 and 240- 130615754 | Excavation - length long, 0.5m deep and 0.6m wide | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 11.9 | D-DT-0862, D-DT-0865, 240- 56030635 and 240- 130615754 | Install 16mm sq bare Stranded Cu Conductor | m | | | 0.00 | | | 0.00 | 0.00 |
| 11.10 | D-DT-0862, D-DT-0865, 240- 56030635 and 240- 130615754 | Install 16mm sq insulated Stranded Cu Conductor | m | | | 0.00 | | | 0.00 | 0.00 |
| 11.11 | D-DT-0862, D-DT-0865, 240- 56030635 and 240- 130615754 | Install earth rods | Each | | | 0.00 | | | 0.00 | 0.00 |
| 11.12 | D-DT-0862, D-DT-0865, 240- 56030635 and 240- 130615754 | Install Earth Electrode with continuous earthing back to source substation | Each | | | 0.00 | | | 0.00 | 0.00 |
| 11.13 | D-DT-0862, D-DT-0865, 240- 56030635 and 240- 130615754 | Install Earth Electrode without continuous earthing back to source substation | Each | | | 0.00 | | | 0.00 | 0.00 |

PRO PROVISION FOR MAINTENANCE AND REPAIRS OF HIGH VOLTAGE (6.6KV TO 33KV), OIL FILLED, OIL IMPREGNATED PAPER AND XLPE CABLES, WITHIN ESKOM DISTRIBUTION GAUTENG CLUSTER, FOR A PERIOD OF 2 YEARS ON AN "AS AND WHEN" REQUIRED BASIS

| | | | | | | | | | | |
|--------------|---|---|----------------|--|--|------|--|--|------|------|
| 11.14 | D-DT-0862, D-DT-0865, 240- 56030635 and 240- 130615754 | Backfill - length long, 0.5m deep and 0.6m wide | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 11.15 | 240- 56030635 | Install external warning flash label | Each | | | 0.00 | | | 0.00 | 0.00 |
| Total | | | | | | 0.00 | | | 0.00 | 0.00 |

| Electrical Contractor : Ground Mounted CT-VT Unit and Ground Mounted Transformer Unit | | | | | | | | | | |
|---|--|---|----------------|----------------------|------------------|-------------------|--------------------|----------------|-----------------|-------|
| Item | Reference: Drawing / Standard | Description | Unit | Material Quantity | Material Rate | Material Total | Labour Quantity | Labour Rate | Labour Total | Total |
| 12.1 | 240- 56030635 | Prepare Site Including Excavation and Compaction for Pre-Cast Plinth | m ² | | | 0.00 | | | 0.00 | 0.00 |
| 12.2 | D-DT-0861 & D-DT- 0864 | Install Pre-Cast Plinth | Each | | | 0.00 | | | 0.00 | 0.00 |
| 12.3 | D-DT-0861 & D-DT- 0864 | Ground Mount CT-VT Unit / Ground Mounted Transformer Unit - Cast on site plinth | Each | | | 0.00 | | | 0.00 | 0.00 |
| 12.4 | D-DT-0864 and D-DT- 0865 | Install Ground Mount CT-VT Unit / Ground Mounted Transformer Unit | Each | | | 0.00 | | | 0.00 | 0.00 |
| 12.5 | 240- 56030635 | Close cable entry and vermin Proofing | Each | | | 0.00 | | | 0.00 | 0.00 |
| 12.6 | 240- 56030635 | Stencilling | p/letter | | | 0.00 | | | 0.00 | 0.00 |
| 12.7 | 240- 56030635 | Install Labels (Chromadek and Aluminium) | Each | | | 0.00 | | | 0.00 | 0.00 |
| 12.8 | D-DT- 0862, D- DT-0865, 240- 56030635 and 240- 130615754 | Excavation - length long, 0.5m deep and 0.6m wide | m ³ | | | 0.00 | | | 0.00 | 0.00 |

| | | | | | | | | | | |
|-------|--|--|------|--|--|------|--|--|------|------|
| 12.9 | D-DT-0862, D-DT-0865, 240-56030635 and 240-130615754 | Install 16mm sq bare Stranded Cu Conductor | m | | | 0.00 | | | 0.00 | 0.00 |
| 12.10 | D-DT-0862, D-DT-0865, 240-56030635 and 240-130615754 | Install 16mm sq insulated Stranded Cu Conductor | m | | | 0.00 | | | 0.00 | 0.00 |
| 12.11 | D-DT-0862, D-DT-0865, 240-56030635 and 240-130615754 | Install earth rods | Each | | | 0.00 | | | 0.00 | 0.00 |
| 12.12 | D-DT-0862, D-DT-0865, 240-56030635 and 240-130615754 | Install Earth Electrode with continuous earthing back to source substation (CT/VT unit) | Each | | | 0.00 | | | 0.00 | 0.00 |
| 12.13 | D-DT-0862, D-DT-0865, 240-56030635 and 240-130615754 | Install Earth Electrode without continuous earthing back to source substation (CT/VT unit) | Each | | | 0.00 | | | 0.00 | 0.00 |
| 12.14 | D-DT-0862, D-DT-0865, 240-56030635 and 240-130615754 | Install Earth Electrode with continuous earthing back to source substation (MV & LV, for ground mount transformer) | Each | | | 0.00 | | | 0.00 | 0.00 |

PRO PROVISION FOR MAINTENANCE AND REPAIRS OF HIGH VOLTAGE (6.6KV TO 33KV), OIL FILLED, OIL IMPREGNATED PAPER AND XLPE CABLES, WITHIN ESKOM DISTRIBUTION GAUTENG CLUSTER, FOR A PERIOD OF 2 YEARS ON AN "AS AND WHEN" REQUIRED BASIS

| | | | | | | | | | | |
|--------------|--|---|----------------|--|--|------|--|--|------|------------|
| | 130615754 | | | | | | | | | |
| 12.15 | D-DT-0862, D-DT-0865, 240-56030635 and 240-130615754 | Install Earth Electrode without continuous earthing back to source substation (MV & LV, for ground mount transformer) | Each | | | 0.00 | | | 0.00 | 0.00 |
| 12.16 | D-DT-0862, D-DT-0865, 240-56030635 and 240-130615754 | Backfill - length long, 0.5m deep and 0.6m wide | m ³ | | | 0.00 | | | 0.00 | 0.00 |
| 12.17 | 240-56030635 | Install external warning flash label | Each | | | 0.00 | | | 0.00 | 0.00 |
| Total | | | | | | 0.00 | | | 0.00 | Rates Only |

| Electrical Contractor : Sheath repair | | | | | | | | | | |
|---------------------------------------|-------------------------------|---------------------------|-----------|-------------------|---------------|----------------|-----------------|-------------|--------------|-------|
| Item | Reference: Drawing / Standard | Description | Unit | Material Quantity | Material Rate | Material Total | Labour Quantity | Labour Rate | Labour Total | Total |
| 13.1 | n/a | Locate sheath fault | Per Fault | | | 0.00 | | | 0.00 | 0.00 |
| 13.2 | D-DT-2877 & D-DT-8077 | Repair cable other sheath | Per Fault | | | 0.00 | | | 0.00 | 0.00 |
| Total | | | | | | 0.00 | | | 0.00 | 0.00 |

Electrical Contractor : As-built drawings (All documents and drawings to be documented and submitted to Eskom in paper format and Electronic media.)

| Item | Reference: Drawing / Standard | Description | Unit | Material Quantity | Material Rate | Material Total | Labour Quantity | Labour Rate | Labour Total | Total |
|--------------|--|--|------|----------------------|------------------|-------------------|--------------------|----------------|-----------------|-------------------|
| 14.1 | <u>D-DT-0858</u> and <u>240-</u> <u>56030635</u> | Create an as-built cadastral drawings that show the positions of the cable, joints, terminations, relative to recognized boundaries and with Global Positioning Satellite (GPS) co-ordinates. (GPS coordinates to be accurate to 0.5m) In addition, these drawings shall also include positions and routes of other (third party) services in close proximity to the newly installed MV power cable as they where encountered on-site, during installation. Drawing should also be stored in *.dxf / *.dgn format capable of being uploaded into Micro-station. - Prior approval required. | Each | | | 0.00 | | | 0.00 | 0.00 |
| Total | | | | | | 0.00 | | | 0.00 | Rates Only |