

**BILL NO 1 - PRELIMINARY AND GENERAL****EBHUBESINI ELECTRIFICATION FOR 21 CONNECTIONS**

| <b>Item</b> | <b>Description</b>                                                                                                                                                                                                                                                                    | <b>Unit</b> | <b>Qty</b> | <b>Rate</b> | <b>Total Price</b> |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------|-------------|--------------------|
| <b>1,1</b>  | <b>Condition of Contract</b>                                                                                                                                                                                                                                                          |             |            |             |                    |
| 1.1.1       | Compliance with all the contractual requirements of the contract, including providing necessary insurances required to adequately to cover the works, outage management, weekly progress reporting, materials management, meetings and quality & environmental management.            | Item        | 1          |             |                    |
| <b>1,2</b>  | <b>Site Store and Office</b>                                                                                                                                                                                                                                                          |             |            |             |                    |
|             | Establish facilities on site. The Contractor shall provide fenced space with fence at least 1.8m high with a lockable gate for a temporary Site Office and Stores where all drawings and Specifications will be kept, as well as the provision of safe and Facilities for Contractor: |             |            |             |                    |
|             | a) Offices & storage sheds                                                                                                                                                                                                                                                            | sum         | 1          |             |                    |
|             | b) Establishment of staff accommodation, office accommodation on site for site meetings and a Clerk of Works including office furniture and telephone / telefax as specified and facilities.                                                                                          | sum         | 1          |             |                    |
|             | c) Ablution & latrine facilities                                                                                                                                                                                                                                                      | sum         | 1          |             |                    |
|             | d) Tools & equipment                                                                                                                                                                                                                                                                  | sum         | 1          |             |                    |
|             | e) Water supplies, electric power & communications                                                                                                                                                                                                                                    | sum         | 1          |             |                    |
| 1.2.1       | Other fixed charge obligations                                                                                                                                                                                                                                                        | sum         | 1          |             |                    |
| 1.2.2       | Removal of all items indicated above upon completion of construction and making good and restoring of the Site to the satisfaction of the Consultant.                                                                                                                                 | sum         | 1          |             |                    |
| 1.2.3       | Provision of "As Built" drawings.                                                                                                                                                                                                                                                     | sum         | 1          |             |                    |
| 1.2.4       | Construction Name Board - The Contractor shall place an order and collect from Eskom and maintain one project signboard bearing the name of the project, the name and logo of Eskom, and the Contractor.                                                                              | sum         | 1          |             |                    |
| 1.2.5       | Provision of samples of materials to be used (only materials supplied by contractor).                                                                                                                                                                                                 | sum         | 1          |             |                    |
| 1.2.6       | Provision for the compilation of the Construction Programme, to be done in MS Project and updated on a fortnight basis and Quality Assurance Programme for the works.                                                                                                                 | sum         | 1          |             |                    |
| <b>1,3</b>  | <b>Compliance with OHS Act &amp; Construction Regulation</b>                                                                                                                                                                                                                          |             |            |             |                    |
| 1.3.1       | Provision for Legal and Contractual Compliance.                                                                                                                                                                                                                                       | sum         | 1          |             |                    |
| 1.3.2       | Provision of personal protective equipment and clothing for all the contractor's staff, including sub-contractors.                                                                                                                                                                    | sum         | 1          |             |                    |
| 1.3.3       | Provision of safety measures, e.g.. Fall arrest systems, shoring for safety purposes etc.                                                                                                                                                                                             | sum         | 1          |             |                    |
| 1.3.4       | Compliance with OH&S Act & Construction Regulations.                                                                                                                                                                                                                                  | sum         | 1          |             |                    |
| 1.3.5       | Orange PVC netting with supports to barricade all excavation, STOP-GO & danger signs, chevron markers, cones, etc                                                                                                                                                                     | sum         | 1          |             |                    |
|             | Amount carried over to next page                                                                                                                                                                                                                                                      |             |            |             |                    |

| Item       | Discription                                                                                                                                                                                                                                                        | Unit     | Qty |             |             |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----|-------------|-------------|
|            | Amount brought forward from previous page                                                                                                                                                                                                                          |          |     |             |             |
| <b>1,4</b> | <b>Compliance with the Requirements for the Expanded Public Works Programme (EPWP).</b><br><br>Note: The reports are to be submitted with the contractors monthly invoice.                                                                                         |          |     |             |             |
| 1.4.1      | Compliance with the Requirements for the Expanded Public Works Programme (incl. monthly reports).                                                                                                                                                                  | Item     | 1   |             |             |
| <b>1,5</b> | <b>Material Management</b>                                                                                                                                                                                                                                         |          |     |             |             |
| 1.5.1      | The Contractor shall make allowance to receive, transport to site off load and stack the free-issue materials supplied to the contract. The rate shall also include the implementation and maintenance Management System for the duration of the contract.         | sum      | 1   |             |             |
| 1.5.2      | On Completion of the project, all unused materials supplied free issue materials shall be reconiled and qualified. Once authorised by the Consultant/Project Co-ordinator, the unused materials shall be transported to Eskom New Germany stores using the correct | sum      | 1   |             |             |
| <b>1,6</b> | <b>Time Related Items (To maintain site for the project)</b>                                                                                                                                                                                                       |          |     |             |             |
| 1.6.1      | Operate and Maintain Facilities on Site<br>Facilities for Contractor:                                                                                                                                                                                              |          |     |             |             |
|            | a) Offices & storage sheds                                                                                                                                                                                                                                         | months   | 2   |             |             |
|            | b) Ablution & latrine facilities                                                                                                                                                                                                                                   | months   | 2   |             |             |
|            | c) Tools & equipment                                                                                                                                                                                                                                               | months   | 2   |             |             |
|            | d) Water supplies, electric power & communications                                                                                                                                                                                                                 | months   | 2   |             |             |
|            | e) Health and Safety (Service provider directly accountable to client for Health and Safety Services)                                                                                                                                                              | months   | 2   |             |             |
| 1.6.2      | Social Facilitation Fees ( Service provider directly accountable to client for ISD Services)                                                                                                                                                                       | months   | 2   |             |             |
| 1.6.3      | Contract management and full time supervision of the works.                                                                                                                                                                                                        | months   | 2   |             |             |
| 1.6.4      | Overhead costs                                                                                                                                                                                                                                                     | months   | 2   |             |             |
| 1.6.5      | Provision for a trainee in electrical engineering - client to appoint student                                                                                                                                                                                      |          | 2   |             |             |
| 1.6.6      | Community Liaison Officer conversant in Xhosa and local cultural norms.                                                                                                                                                                                            | months   | 2   | R 5 000,00  | R 10 000,00 |
| 1.6.7      | Provisional Sum for project steering committee - seating allowance                                                                                                                                                                                                 | months   | 2   | R 2 000,00  | R 4 000,00  |
| <b>1,7</b> | <b>Security</b>                                                                                                                                                                                                                                                    |          |     |             |             |
| 1.7.1      | Contractor shall provide security guard/s to ensure the substation site including offices, storage sheds and all Free issue material are protected from theft or any damage. The Contractor needs to ensure that the above mentioned is guarded 24hrs a day.       | months   | 2   |             |             |
| <b>1,8</b> | <b>Special Engineering Services</b>                                                                                                                                                                                                                                |          |     |             |             |
| 1.8.1      | Provisional sum for additional Engineering Services Inclusive of Pre-Marketing, Detailed Markerting, Survey, Environmental Assessment & Prov Sum Wayleaves and AMAFA documentation.                                                                                | Prov Sum | 1   | R 75 000,00 | R 75 000,00 |
| 1.8.2      | Allowance for handling and profit in respect of item 1.8.1                                                                                                                                                                                                         | 10%      | 1   | R 7 500,00  | R 7 500,00  |
| 1.8.3      | Provisional sum for providing Technical Support on site to the contractor (Clerk of Works) and Quality Assurance                                                                                                                                                   | Prov Sum | 1   | R 35 000,00 | R 35 000,00 |
| 1.8.4      | Allowance for handling and profit in respect of item 1.8.3                                                                                                                                                                                                         | 10%      | 1   | R 3 500,00  | R 3 500,00  |
|            | <b>TOTAL: Carried forward to summary</b>                                                                                                                                                                                                                           |          |     |             |             |

**BILL NO 2 - MEDIUM VOLTAGE SWITCHGEAR, SECTIONALISERS, TRANSFORMERS, ETC**  
**EBHUBESINI ELECTRIFICATION FOR 21 CONNECTIONS**

| Item | Description                                                                                                                                                                                                                                                                                                                                                                                                                                     | DDT Ref   | Unit | Qty | Supply Rate | Install Rate | Total Price |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------|-----|-------------|--------------|-------------|
|      | <b>Transformers (Coastal Spec) - Pole Mounted</b>                                                                                                                                                                                                                                                                                                                                                                                               |           |      |     |             |              |             |
|      | Installation of existing or new transformers on an appropriate structure and secure as required including the termination of cables and conductors, the provision of suitable lugs for 35, 50 or 70mm conductor as required and all accessories. Excluding cable conductors, and the transformer structure. Include transport, offloading / loading, safe storage from appropriate Eskom store.                                                 |           |      |     |             |              |             |
| 2,1  | Transformer 16kVA, 22kV/+240V                                                                                                                                                                                                                                                                                                                                                                                                                   | 3021      | No   |     |             |              |             |
| 2,2  | Transformer 32kVA, 22kV/460V Dual Phase                                                                                                                                                                                                                                                                                                                                                                                                         | 3021      | No   |     |             |              |             |
| 2,3  | Transformer 64kVA, 22kV/460V Dual Phase                                                                                                                                                                                                                                                                                                                                                                                                         | 3021      | No   | 3   |             |              |             |
| 2,4  | Transformer 50kVA, 22kV/400V Three phase                                                                                                                                                                                                                                                                                                                                                                                                        | 3021      | No   |     |             |              |             |
| 2,5  | Transformer 100kVA, 22kV/400V Three phase                                                                                                                                                                                                                                                                                                                                                                                                       | 3021      | No   |     |             |              |             |
| 2,6  | Transformer 200kVA, 22kV/400V Three phase                                                                                                                                                                                                                                                                                                                                                                                                       | 3021      | No   |     |             |              |             |
| 2,7  | Existing transformers to be moved out of line as well as upgrading to present standard                                                                                                                                                                                                                                                                                                                                                          | 3021      | No   |     |             |              |             |
| 2,8  | DATA CONCENTRATOR UNIT,INTERFACE DC450 MODE G3 PLC DC 230 V (INTERNAL MODEM)                                                                                                                                                                                                                                                                                                                                                                    | 621052    | No   | 3   |             |              |             |
|      | <b>Medium Voltage Surge Arrestors</b>                                                                                                                                                                                                                                                                                                                                                                                                           |           |      |     |             |              |             |
|      | Supply, deliver, off load on site and safely store on site the following surge arrestors, complete with galvanised steel mounting brackets for securing the surge arrestor, nuts, bolts, washers and lock washers as specified. Secure the surge arrestor and brackets to the transformer as specified including the termination of conductors the termination of conductors. Excluding the conductors and transformer. Discharge current 10kA. |           |      |     |             |              |             |
| 2,9  | 11kV, MCOV 19.2kV Surge arrestor, 31mm/kV, coastal. NB: Single Surge Arrestors                                                                                                                                                                                                                                                                                                                                                                  | 3100      | No   | 6   |             |              |             |
|      | <b>Medium Voltage Sectionalisers and Links</b>                                                                                                                                                                                                                                                                                                                                                                                                  |           |      |     |             |              |             |
|      | Supply and install link isolators as detailed including the installation of crossarm brackets and the termination of conductors and including the drilling of holes in wooden poles as required 15k fused links.                                                                                                                                                                                                                                |           |      |     |             |              |             |
| 2,10 | 22kV, Solid links,Single Pole (2.5 X-am) (dual phase).                                                                                                                                                                                                                                                                                                                                                                                          | 1848/1849 | Set  |     |             |              |             |
| 2,11 | 22kV, Solid links,Single Pole Mount (dual phase).                                                                                                                                                                                                                                                                                                                                                                                               | 3086      | Set  |     |             |              |             |
| 2,12 | 22kV, Solid links,Single Pole (2.5 X-am) (three phase).                                                                                                                                                                                                                                                                                                                                                                                         | 1848/1849 | Set  |     |             |              |             |
| 2,13 | 22kV, Solid links,Single Pole Mount (three phase).                                                                                                                                                                                                                                                                                                                                                                                              | 3086      | Set  |     |             |              |             |
| 2,14 | 22kV, Fuse links,Single Pole (2.5m X-am) (dual phase).                                                                                                                                                                                                                                                                                                                                                                                          | 1848/1849 | Set  |     |             |              |             |
| 2,15 | 22kV, Fuse links,Single Pole Mount (dual phase).                                                                                                                                                                                                                                                                                                                                                                                                | 3086      | Set  |     |             |              |             |
| 2,16 | 22kV, Fuse links, Single Pole (2.5m X-am) (three phase).                                                                                                                                                                                                                                                                                                                                                                                        | 1848/1849 | Set  |     |             |              |             |
| 2,17 | 22kV, Fuse links,Single Pole Mount (three phase).                                                                                                                                                                                                                                                                                                                                                                                               | 3086      | Set  |     |             |              |             |
| 2,18 | 22kV, Solid links, Single Pole (3.5m / 4.5m X-arm) / H- Pole (three phase).                                                                                                                                                                                                                                                                                                                                                                     | 1847      | Set  |     |             |              |             |
|      | <b>Amount carried over to next page</b>                                                                                                                                                                                                                                                                                                                                                                                                         |           |      |     |             |              |             |



**BILL NO 3 - MEDIUM VOLTAGE OVERHEAD DISTRIBUTION  
EBHUBESINI ELECTRIFICATION FOR 21 CONNECTIONS**

| Item | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | DDT Ref  | Unit | Qty | Supply Rate | Install Rate | Total Price |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-----|-------------|--------------|-------------|
|      | <b>CONDUCTOR</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |     |             |              |             |
|      | Supply, safely store on sealed drums with ends adequately secured and transport to site conductor as specified. String conductor as specified including splices, jumper conductor ties, strain clamps, suspension clamps, tensioning, sagging, etc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |      |     |             |              |             |
|      | The following dimensions will all be<br>Conductor Length with 10% is allowed for slack & wastage. Additional wastage/slack<br>Additional wastage/slack is for Contractor's account.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |      |     |             |              |             |
| 3.1  | COND,ACSR FOX 8.37D UNGRS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3136     | m    |     |             |              |             |
| 3.2  | COND, ACSR HARE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3136     | m    |     |             |              |             |
|      | <b>MV STRUCTURES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |      |     |             |              |             |
|      | Allow for the following structures and insulator assemblies in accordance with the specifications as shown in the drawings.<br><b>Include</b> the specified crossarms, drilling of holes and treating of such holes, the provision of the U-nails and earthwire in accordance with Eskom specifications. All jumpers to links and transformers to be installed with PVC black pipe. <b>Supply and installation</b> of 15m of 3/3.35x1100MPa steel wire for a BIL for each pole structure as per Eskom specification. <b>Exclude</b> the supply and planting of poles, stays and struts which are measured elsewhere. Insulators as per EI090SS. Include BIL insulation co-ordination for shared MV & LV structures as per 03TB-34 or later approved Eskom standard. |          |      |     |             |              |             |
| Note | <b>Supply and install</b> all material as specified for the construction of the following MV structures. Including bonding of hardware and earthing. All excavations, poles, crossarms and stay are measured elsewhere.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |      |     |             |              |             |
|      | Note: RX refers to statutory road crossings with the relevant DDT0257-10kN-31mm/kV post insulator, full wrap tie (suspension structures) or DDT0251 - 40KN-31mm/KV longrod with pistolgrips (strain structures).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |     |             |              |             |
| 3.3  | Delta / 2,5m Wood X-arm - Intermediate - 0° Deviation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1340B    | No   |     |             |              |             |
| 3.4  | Delta / 2,5m Wood X-arm - Intermediate - 0° Deviation (RX).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1340B-RX | No   |     |             |              |             |
| 3.5  | Delta / 2,5m Wood X-arm - Strain - 0° Deviation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1343     | No   |     |             |              |             |
| 3.6  | Delta / 2,5m Wood X-arm - Strain - 0° Deviation (RX).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1343-RX  | No   |     |             |              |             |
| 3.7  | Delta / 2,5m Wood X-arm - Strain - Medium (1°- 60°) Deviation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1344     | No   |     |             |              |             |
| 3.8  | Delta / 2,5m Wood X-arm - Strain - Medium (1°- 60°) Deviation (RX).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1344-RX  | No   |     |             |              |             |
|      | Amount carried over to next page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |     |             |              |             |

| Item | Description                                                                 | DDT Ref  | Unit | Qty | Supply Rate | Install Rate | Total Price |
|------|-----------------------------------------------------------------------------|----------|------|-----|-------------|--------------|-------------|
|      | Amount brought forward from previous page                                   |          |      |     |             |              |             |
| 3,9  | Delta / 2,5m Wood X-arm - Strain - Terminal                                 | 1346     | No   |     |             |              |             |
| 3,10 | Delta / 2,5m Wood X-arm - Strain - Terminal(RX)                             | 1346-RX  | No   |     |             |              |             |
| 3,11 | Delta - H-Pole / 4,5m Wood X-arm - Intermediate 0° Deviation                | 1370     | No   |     |             |              |             |
| 3,12 | Delta - H-Pole / 4,5m Wood X-arm - Intermediate 0° Deviation (RX).          | 1370-RX  | No   |     |             |              |             |
| 3,13 | Delta - H-Pole / 4,5m Wood X-arm - Intermediate 1°- 10° Deviation           | 1371     | No   |     |             |              |             |
| 3,14 | Delta - H-Pole / 4,5m Wood X-arm - Intermediate 1°- 10° Deviation           | 1371-RX  | No   |     |             |              |             |
| 3,15 | Delta - H-Pole / 4,5m Wood X-arm - Strain 0° Deviation                      | 1373     | No   |     |             |              |             |
| 3,16 | Delta - H-Pole / 4,5m Wood X-arm - Strain 0° Deviation (RX).                | 1373-RX  | No   |     |             |              |             |
| 3,17 | Delta – H-Pole / 4,5m Wood X-arm - Strain - Medium (1°-60°) Deviation.      | 1374     | No   |     |             |              |             |
| 3,18 | Delta – H-Pole / 4,5m Wood X-arm - Strain - Medium (1°-60°) Deviation (RX). | 1374-RX  | No   |     |             |              |             |
| 3,19 | Delta – H-Pole / 4,5m Wood X-arm - Strain - Terminal                        | 1376     | No   |     |             |              |             |
| 3,20 | Delta – H-Pole / 4,5m Wood X-arm - Strain - Terminal (RX).                  | 1376-RX  | No   |     |             |              |             |
|      | <b>3 PHASE STRUCTURES GENERAL ARRANGEMENT</b>                               |          |      |     |             |              |             |
| 3,21 | Delta / 2,5m Wood X-arm - Intermediate - 0° Deviation                       | 1740B    | No   |     |             |              |             |
| 3,22 | Delta / 2,5m Wood X-arm - Intermediate - 0° Deviation (RX).                 | 1740B-RX | No   |     |             |              |             |
| 3,23 | Delta / 2,5m Wood X-arm - Strain - 0° Deviation                             | 1743     | No   |     |             |              |             |
| 3,24 | Delta / 2,5m Wood X-arm - Strain - 0° Deviation (RX).                       | 1743-RX  | No   |     |             |              |             |
| 3,25 | Delta / 2,5m Wood X-arm - Strain - Medium (1°-60°) Deviation                | 1744     | No   |     |             |              |             |
| 3,26 | Delta / 2,5m Wood X-arm - Strain - Medium (1°-60°) Deviation (RX).          | 1744-RX  | No   |     |             |              |             |
| 3,27 | Delta / 2,5m Wood X-arm - Strain - Terminal                                 | 1746     | No   |     |             |              |             |
| 3,28 | Delta / 2,5m Wood X-arm - Strain - Terminal (RX).                           | 1746-RX  | No   |     |             |              |             |
| 3,29 | 3 Phase - Delta / 2x2,5m Wood X-arm – Strain Intermediate - 0° Deviation    | 1747     | No   |     |             |              |             |
| 3,30 | 3 Phase - Delta / 2x2,5m Wood X-arm – Strain Medium(1°-60°) Deviation       | 1748     | No   |     |             |              |             |
| 3,31 | 3 Phase - Delta / 2x2,5m Wood X-arm – Strain Medium(60°-90°) Deviation      | 1745     | No   |     |             |              |             |
| 3,32 | 3 Phase - Delta / 2x2,5m Wood X-arm – Strain Terminal                       | 1749     | No   |     |             |              |             |
| 3,33 | 3 Phase - Delta / 4,5m Wood X-arm - Intermediate – 0° Deviation             | 1750     | No   |     |             |              |             |
|      | Amount carried over to next page                                            |          |      |     |             |              |             |

| Item                                      | Description                                                                | DDT Ref | Unit | Qty | Supply Rate | Install Rate | Total Price |
|-------------------------------------------|----------------------------------------------------------------------------|---------|------|-----|-------------|--------------|-------------|
| Amount brought forward from previous page |                                                                            |         |      |     |             |              | R -         |
| 3,34                                      | 3 Phase - Delta / 3,5m Wood X-arm - Intermediate – 0° Deviation            | 1760    | No   |     |             |              |             |
| 3,35                                      | 3 Phase - Delta / 4,5m Wood X-arm - Strain – 0° Deviation                  | 1753    | No   |     |             |              |             |
| 3,36                                      | 3 Phase - Delta / 4,5m Wood X-arm - Strain - Medium (1°-60°) Deviation     | 1754    | No   |     |             |              |             |
| 3,37                                      | 3 Phase - Delta / 4,5m Wood X-arm - Strain Terminal                        | 1756    | No   |     |             |              |             |
| 3,38                                      | 3 Phase - H-Pole / 3,5m Wood X-arm - Strain – 0° Deviation                 | 1763    | No   |     |             |              |             |
| 3,39                                      | 3 Phase - H-Pole / 3,5m Wood X-arm - Strain – Medium (1°-60°) Deviation    | 1764    | No   |     |             |              |             |
| 3,40                                      | 3 Phase - H-Pole / 3,5m Wood X-arm - Strain – Terminal                     | 1766    | No   |     |             |              |             |
| 3,41                                      | 3 Phase - H-Pole / 2x3,5m Wood X-arm - Strain – 0° Deviation               | 1767    | No   |     |             |              |             |
| 3,42                                      | 3 Phase - H-Pole / 2x3,5m Wood X-arm - Strain - Medium(1°-60°) Deviation   | 1768    | No   |     |             |              |             |
| 3,43                                      | 3 Phase - H-Pole / 2x3,5m Wood X-arm - Strain-Terminal                     | 1769    | No   |     |             |              |             |
| 3,44                                      | 3 Phase - H-Pole / 4,5m Wood X-arm - Intermediate – 0° Deviation           | 1770    | No   |     |             |              |             |
| 3,45                                      | 3 Phase - H-Pole / 4,5m Wood X-arm - Intermediate Small (1°-10°) Deviation | 1771    | No   |     |             |              |             |
| 3,46                                      | 3 Phase - H-Pole / 4,5m Wood X-arm - Strain – 0° Deviation                 | 1773    | No   |     |             |              |             |
| 3,47                                      | 3 Phase - H-Pole / 4,5m Wood X-arm - Strain - Medium (1°-60°) Deviation    | 1774    | No   |     |             |              |             |
| 3,48                                      | 3 Phase - H-Pole / 4,5m Wood X-arm - Strain - Terminal                     | 1776    | No   |     |             |              |             |
| 3,49                                      | 3 Phase - H-Pole / 2x4,5m Wood X-arm - Strain – 0° Deviation               | 1777    | No   |     |             |              |             |
| 3,50                                      | 3 Phase - H-Pole / 2x4,5m Wood X-arm - Strain - Medium (1°-60°) Deviation  | 1778    | No   |     |             |              |             |
| 3,51                                      | 3 Phase - H-Pole / 2x4,5m Wood X-arm - Strain - Large (61°-90°) Deviation  | 1873    | No   |     |             |              |             |
| 3,52                                      | 3 Phase - H-Pole / 2x4,5m Wood X-arm - Strain - Terminal                   | 1779    | No   |     |             |              |             |
| 3,53                                      | 3 Phase - Trips - Strain - 0° Deviation                                    | 1783    | No   |     |             |              |             |
| 3,54                                      | 3 Phase - Trips - Strain - Large (01°-90°) Deviation                       | 1784    | No   |     |             |              |             |
| Amount carried over to next page          |                                                                            |         |      |     |             |              |             |

| Item                                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | DDT Ref | Unit | Qty | Supply Rate | Install Rate | Total Price |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|-----|-------------|--------------|-------------|
| Amount brought forward from previous page |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |      |     |             |              |             |
| Note                                      | <b>MV STRUCTURES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |      |     |             |              |             |
|                                           | Allow for the following structures and insulator assemblies in accordance with the specifications as shown in the drawings. <b>Include</b> the specified crossarms, drilling of holes and treating of such holes, the provision of the U-nails and earthwire in accordance with Eskom specifications. All jumpers to links and transformers to be installed with PVC black pipe. <b>Supply and installation</b> of 15m of 3/3.35x1100MPa steel wire for a BIL for each pole structure as per Eskom specification. <b>Exclude</b> the supply and planting of poles, stays and struts which are measured elsewhere. Insulators as per EI090SS. Include BIL insulation co-ordination for shared MV & LV structures as per 03TB-34 or later approved Eskom standard. |         |      |     |             |              |             |
|                                           | <b>Supply and install</b> all material as specified for the construction of the following MV structures. Including bonding of hardware and earthing. All excavations, poles, crossarms and stays are measured elsewhere.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |      |     |             |              |             |
|                                           | Note: RX refers to statutory road crossings with the relevant DDT0257-10kN-31mm/kV post insulator, full wrap tie (suspension structures) or DDT0251-40kN-31mm/kV longrod with pistolgrips (strain structures).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |      |     |             |              |             |
|                                           | 3,55 3-Phase, Take off (2.5m X-arm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1804    | No   |     |             |              |             |
|                                           | 3,56 3-Phase, Take off (2.5m X-arm) (RX)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1804-RX | No   |     |             |              |             |
|                                           | 3,57 3-Phase, Take off (2x2.5m X-arm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1805    | No   |     |             |              |             |
|                                           | 3,58 3-Phase, Take off - H-Pole (3.5m X-arm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1806    | No   |     |             |              |             |
|                                           | 3,59 3-Phase, Take off - H-Pole (2x3.5m X-arm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1807    | No   |     |             |              |             |
|                                           | 3,60 2-Phase, Take off (2.5m X-arm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1814    | No   |     |             |              |             |
|                                           | 3,61 2-Phase, Take off (2.5m X-arm) (RX)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1814-RX | No   |     |             |              |             |
|                                           | 3,62 2-Phase, Take off - 2x2.5m X-arm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1815    | No   |     |             |              |             |
|                                           | 3,63 2-Phase, Take off - H-Pole (3.5m X-arm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1816    | No   |     |             |              |             |
|                                           | 3,64 2-Phase, Take off - H-Pole (2x3.5m X-arm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1817    | No   |     |             |              |             |
|                                           | 3,65 Transformer - Single Pole mount (16 -100kVA).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1860    | No   |     |             |              |             |
|                                           | 3,66 Transformer - 2 Pole platform mount(H-Pole) - 100 -200kVA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1861    | No   |     |             |              |             |
|                                           | 3,67 Transformer - Pole mounting out-of-line (16-100kVA) includes 1860 module, etc... as per EI067-MVL) and excludes transformer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1866B   | No   |     |             |              |             |
|                                           | 3,68 Transformer - Pole mounting out-of-line (100-200kVA) includes 1860 module, etc... as per EI067-MVL) and excludes transformer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1865B   | No   |     |             |              |             |
|                                           | 3,69 NEW Recloser Structure, (exclusive of poles, stays, crossarms, links, excavations, approved anticlimbing device, etc... as per EI070-MVL.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1829B   | No   |     |             |              |             |
|                                           | 3,70 NEW Voltage Regulator Structure, (exclusive of poles, stays, crossarms, links, excavations, approved anticlimbing device, etc... as per EI-124-MVL. Recloser supplied by Eskom) Allow for transport, loading/offloading, safe storage from Eskom stores to site.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1833B   | No   |     |             |              |             |
| Amount carried over to next page          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |      |     |             |              |             |

| Item                                     | Description                                                                                                                                         | DDT Ref | Unit | Qty | Supply Rate | Install Rate | Total Price |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|-----|-------------|--------------|-------------|
|                                          | Amount brought forward from previous page                                                                                                           |         |      |     |             |              |             |
|                                          | <b>Testing</b><br><br><b>Allowance shall be made for the complete testing and commissioning of the Medium Voltage overhead distribution system.</b> |         |      |     |             |              |             |
| 3,71                                     | MV Test (per transformer installation)                                                                                                              |         | No   |     |             |              |             |
| 7,72                                     | MV Test (per Auto-recloser installation)                                                                                                            |         | No   |     |             |              |             |
| 3,73                                     | MV Test (Voltage Regulator installation)                                                                                                            |         | No   |     |             |              |             |
| <b>TOTAL: Carried forward to summary</b> |                                                                                                                                                     |         |      |     |             |              |             |

**BILL NO 4 - SUPPORT FOR OVERHEAD RETICULATION**  
**EBHUBESINI ELECTRIFICATION FOR 21 CONNECTIONS**

| Item | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                          | DDT Ref | Unit | Qty | Supply Rate | Install Rate | Total Price |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|-----|-------------|--------------|-------------|
|      | <b>POLES AND CROSSARMS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |      |     |             |              |             |
|      | Supply and safely store the following poles. Transport to site of works and install pole in excavated hole, including cutting and scaffing, kicking blocks, bonding, treating, etc. Excavations and compaction are measured elsewhere.                                                                                                                                                                                                                               |         |      |     |             |              |             |
| 4,1  | 7m Pole, 120-139mm top diameter                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0050    | No   |     |             |              |             |
| 4,2  | 9m Pole, 140-159mm top diameter                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0055    | No   | 35  |             |              |             |
| 4,3  | 9m Pole, 160-179mm top diameter                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0055    | No   |     |             |              |             |
| 4,4  | 10m Pole, 180-199mm top diameter                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0052    | No   | 3   |             |              |             |
| 4,5  | 11m Pole, 160-179mm top diameter                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0051    | No   | 4   |             |              |             |
| 4,6  | 11m Pole, 180-199mm top diameter                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0051    | No   |     |             |              |             |
| 4,7  | 11m Pole, 200-219mm top diameter                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0051    | No   |     |             |              |             |
| 4,8  | 12m Pole, 160-180mm top diameter                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0053    | No   |     |             |              |             |
| 4,9  | 12m Pole, 180-199mm top diameter                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0053    | No   |     |             |              |             |
| 4,10 | 12m Pole, 200-219mm top diameter                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0053    | No   |     |             |              |             |
| 4,11 | 13m Pole, 160-180mm top diameter                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0056    | No   |     |             |              |             |
| 4,12 | 13m Pole, 180-200mm top diameter                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0056    | No   |     |             |              |             |
|      | Supply, off load and install the following wooden cross arms.                                                                                                                                                                                                                                                                                                                                                                                                        |         |      |     |             |              |             |
| 4,13 | 2.5m, 140 -159mm Diameter                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0061    | No   |     |             |              |             |
| 4,14 | 3.5m, 140 -159mm Diameter                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0063    | No   |     |             |              |             |
| 4,15 | 4.5m, 160 -179mm Diameter                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0064    | No   |     |             |              |             |
| 4,16 | 6m, 160 -179mm Diameter                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0064    | No   |     |             |              |             |
|      | <b>Stays, Flying Stays and Anti-Climbing Devices</b><br>The unit price for a standard stay and an aerial stay shall exclude the wooden poles, but include the stay wire, stay rods, insulators, stay plate, stay guards, bitumastic paint, guy grip dead end, earthing of stay, line splice, precast concrete slabs, pole clamp, nuts bolts and washers etc.<br><br>The following stays shall be in accordance with the specifications and shall include stay plate. |         |      |     |             |              |             |
| 4,17 | MV Stay (DDT0341 rev 9, BIL 40kV & 150kV)                                                                                                                                                                                                                                                                                                                                                                                                                            | 0341    | No   |     |             |              |             |
| 4,18 | LV Stay                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0341    | No   | 36  |             |              |             |
|      | The following flying stays shall be in accordance with the specifications and shall include poles & excavation.                                                                                                                                                                                                                                                                                                                                                      |         |      |     |             |              |             |
| 4,19 | MV Flying Stay                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0343    | No   |     |             |              |             |
| 4,20 | LV Flying Stay                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0343    | No   |     |             |              |             |
|      | The following struts shall be in accordance with the specifications and shall include poles & excavation.                                                                                                                                                                                                                                                                                                                                                            |         |      |     |             |              |             |
| 4,21 | MV Strut                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0342    | No   |     |             |              |             |
| 4,22 | LV Strut                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1167    | No   | 6   |             |              |             |
|      | Amount carried over to next page                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |      |     |             |              |             |

| Item | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | DDT Ref | Unit | Qty | Supply Rate | Install Rate | Total Price |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|-----|-------------|--------------|-------------|
|      | Amount brought forward from previous page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |      |     |             |              |             |
|      | <b>EXCAVATIONS AND COMPACTION</b><br><br>The excavations for service connections are measured elsewhere.<br><br><b>Determination of pole positions, excavate, and supply a mechanical boring device if required. The rate shall include backfilling, compaction to 93% MOD AASHTO density, and where necessary the supply and transportation of suitable ground as may be required to receive the desired compaction, except where cement is specified. Any damage to existing services shall be made good by the Contractor at his own expense and to the approval or the PM(C).</b><br><br>Before excavation work begins the Contractor shall evaluate the stability of the ground before excavation begins. Contractor shall use warning signs, positioned next to an excavation within which persons are working or carrying out inspections. Ref CR (11). |         |      |     |             |              |             |
| 4,23 | Hole for 7m pole - 1.3m deep                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0332    | No   |     |             |              |             |
| 4,24 | Hole for 9m pole - 1.5m deep                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0332    | No   | 35  |             |              |             |
| 4,25 | Hole for 10m pole - 1.6m deep                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0332    | No   | 3   |             |              |             |
| 4,26 | Hole for 11m pole - 1.8m deep                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0332    | No   | 4   |             |              |             |
| 4,27 | Hole for 12m pole - 2.0m deep                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0332    | No   |     |             |              |             |
| 4,28 | Hole for 13m pole - 2.2m deep                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0332    | No   |     |             |              |             |
| 4,29 | Hole for MV stay - 1.5m deep                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0350    | No   |     |             |              |             |
| 4,30 | Hole for LV stay - 1.4m deep                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0350    | No   | 36  |             |              |             |
| 4,31 | Hole for MV strut - 1.8m deep                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0342    | No   |     |             |              |             |
| 4,32 | Hole for LV strut - 1.3m deep                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0342    | No   | 6   |             |              |             |
| 4,33 | Provisional blasting - Up to 2,2m deep. Each hole to be verified by Clerk of Works. Develop a method statement in accordance with explosives legislation, by an appointed person who is competent in the use of explosives for excavation work and that the procedures therein are followed. Ref CR (11)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | No   | 10  |             |              |             |
| 4,34 | Rock excavation (the contractor is to provide adequate measures to ensure a rock hole be excavated to the correct depth to facilitate the correct infrastructure, this may include the excavation per rock hole by mechanical means viz. Compressors dependent on diesel fuel to accommodate Jackhammer drilling). These Rock Holes to be verified by the relevant Clerk of Works. Ref CR (11)                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         | No   | 20  |             |              |             |
|      | Amount carried over to next page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |      |     |             |              |             |

| Item | Description                                                                                                                                                                                                                                                                                                                                                                                                                          | DDT Ref | Unit    | Qty | Supply Rate | Install Rate | Total Price |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|-----|-------------|--------------|-------------|
|      | Amount brought forward from previous page                                                                                                                                                                                                                                                                                                                                                                                            |         |         |     |             |              |             |
|      | <b>POLE LABES</b>                                                                                                                                                                                                                                                                                                                                                                                                                    |         |         |     |             |              |             |
|      | Supply and install labels on all poles in accordance with the specifications including the provision of all fixing materials. Allow for pick-up, loading/offloading, transport from appropriate Eskom store. Labels to the Eskom Standard SCSSCAAP5, TQGHSP05 and TQCSS005. Dynatape, masking tape or Hand written with permanent marker type labels are not to be considered for operational labelling under any circumstances.     |         |         |     |             |              |             |
| 4,35 | Equipment labels                                                                                                                                                                                                                                                                                                                                                                                                                     |         | No      | 6   |             |              |             |
| 4,36 | Mosdorfer fuse rating labels (transformers)                                                                                                                                                                                                                                                                                                                                                                                          |         | No      | 6   |             |              |             |
| 4,37 | Fuse - "Warning. Open all fuses before working on line"                                                                                                                                                                                                                                                                                                                                                                              |         | No      | 6   |             |              |             |
| 4,38 | Transformer Max fuse notification label                                                                                                                                                                                                                                                                                                                                                                                              |         | No      | 6   |             |              |             |
| 4,39 | Feeder Max Fuse notification label                                                                                                                                                                                                                                                                                                                                                                                                   |         | No      | 6   |             |              |             |
| 4,40 | Danger Labels (transformers, links, anti-climbings)                                                                                                                                                                                                                                                                                                                                                                                  | 3202    | No      | 6   |             |              |             |
| 4,41 | LV Feeder Labels                                                                                                                                                                                                                                                                                                                                                                                                                     |         | No      | 15  |             |              |             |
| 4,42 | House Connections Labels                                                                                                                                                                                                                                                                                                                                                                                                             |         | No      | 21  |             |              |             |
| 4,43 | Pole Top Box Phase Labels                                                                                                                                                                                                                                                                                                                                                                                                            |         | No      | 20  |             |              |             |
|      | <b>GENERAL ITEMS</b>                                                                                                                                                                                                                                                                                                                                                                                                                 |         |         |     |             |              |             |
|      | Supply and install labels Spiral Vibration Dampers as per the DT Standards                                                                                                                                                                                                                                                                                                                                                           |         |         |     |             |              |             |
| 4,44 | Spiral Vibration Dampers (Fox)                                                                                                                                                                                                                                                                                                                                                                                                       | 3175    | ea      |     |             |              |             |
| 4,45 | Bird Flappers                                                                                                                                                                                                                                                                                                                                                                                                                        | 3175    | ea      |     |             |              |             |
|      | Supply and Install Anti-Climbing Devices as per the latest DDT Standards.                                                                                                                                                                                                                                                                                                                                                            |         |         |     |             |              |             |
| 4,46 | Anti-Climbing Device as per 05T109. Including the removal of existing spikes. Galvanised wire per DDT3170. Galvanises staples per DDT3129. Install on trfr str, struts, parallel MV stay wires, recloser str, OOL trfr str, etc, structures where meter boxes or equipment is installed <2m above ground, any str having cable secured by means of strapping <0.5m apart, any climbable pole str, apparatus etc as per DDT standard. | 0399    | per srt | 6   |             |              |             |
| 4,47 | Supply and Install, where MV & LV Earths are on the same structure, UV protected black PVC pipe of length 1.2m on each earth downwire, cutting the top and bottom of the pipe at 45deg, split the pipe so as to insert the MV/LV earth and installing clout nails at the bottom and top.                                                                                                                                             |         | per srt | 6   |             |              |             |
|      | <b>TOTAL: Carried forward to summary</b>                                                                                                                                                                                                                                                                                                                                                                                             |         |         |     |             |              |             |

**BILL NO 5 - OVERHEAD DISTRIBUTION LINES**  
**EBHUBESINI ELECTRIFICATION FOR 21 CONNECTIONS**

| Item | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | DDT Ref | Unit | Qty  | Supply Rate | Install Rate | Total Price |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|------|-------------|--------------|-------------|
|      | <b>LV ABC (insulated neutral)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |      |      |             |              |             |
| Note | The LV insulated aerial bundle conductor system shall be in accordance with SABS 1418 and insulated in accordance with SABS 0198 and the Distribution Standard Part 3. Ref. EI-092-LVL                                                                                                                                                                                                                                                                                                              |         |      |      |             |              |             |
| Note | The unit rate per meter shall include the tensioning and stringing of the bundle in accordance with the sag and stress tables provided by the manufacturer with all plant, equipment and accessories required to erect an LV overhead bundled distribution line i.e. Drum trailer, winch, wind-off pulleys, pulling rope/cable with connection, dynamometer, slide-lock, sheathed synthetic-fibre belt, woven snatch belt, snatch block, tackle, shackle, etc.                                      |         |      |      |             |              |             |
| Note | Measured lengths for stringing shall be net line route lengths and unit rates shall include for sag, off-cuts, etc.                                                                                                                                                                                                                                                                                                                                                                                 |         |      |      |             |              |             |
|      | Supply, safely store and transport to site and string. The conductor will be delivered on sealed drums and adequate allowance shall be made for the correct handling thereof.                                                                                                                                                                                                                                                                                                                       |         |      |      |             |              |             |
|      | Ensure correct tooling - D 51 Hydraulic Crimping Tool and dies, a 13mm tube spanner with T – bar, Phase separators, Slings, Wide Grooved Pulleys, Steel Pulling Socks, Pulling Swivels, Rickie, Come-along and Dynamometers.                                                                                                                                                                                                                                                                        |         |      |      |             |              |             |
| 5,1  | Single phase ABC (35mm2, 2 core) - insulated neutral.                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3141    | m    | 1500 |             |              |             |
| 5,2  | Dual phase ABC (35mm2, 3 core) - insulated neutral.                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3141    | m    | 1000 |             |              |             |
| 5,3  | Three phase ABC (35mm2, 4 core) - insulated neutral.                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3141    | m    | 1200 |             |              |             |
| 5,4  | Single phase ABC (70mm2, 2 core) - insulated                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3141    | m    |      |             |              |             |
| 5,5  | Dual phase ABC (70mm2, 3 core) - insulated neutral.                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3141    | m    |      |             |              |             |
| 5,6  | Three phase ABC (70mm2, 4 core) - insulated                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3141    | m    |      |             |              |             |
|      | <b>LV STRUCTURES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |      |      |             |              |             |
|      | Allow for the assembly of the following LV strain and suspension assemblies in accordance with the specifications shown in the drawings. Including all earthing, drilling of holes and treating of drilled holes. All LV ABC hardware, line connectors, PVC cable ties, nuts, bolts, washers, lock washers shall be allowed for in the appropriate item below. Excluding the supply and planting of poles, stays and struts, which are measured elsewhere. Use strain assembly when crossing roads. |         |      |      |             |              |             |
|      | Supply and install all the materials as specified for following:                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |      |      |             |              |             |
| 5,5  | Single Phase ABC Intermediate Assembly                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1153    | No   | 2    |             |              |             |
| 5,6  | Single Phase ABC Terminal Assembly                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1154    | No   | 10   |             |              |             |
| 5,7  | Single Phase ABC Strain Assembly (0-60 deg)                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1155    | No   | 2    |             |              |             |
| 5,8  | Single Phase ABC Strain Assembly (60-90 deg)                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1156    | No   | 3    |             |              |             |

|      | Amount carried over to next page                                |         |      |     |             |              |             |
|------|-----------------------------------------------------------------|---------|------|-----|-------------|--------------|-------------|
| Item | Description                                                     | DDT Ref | Unit | Qty | Supply Rate | Install Rate | Total Price |
|      | Amount brought forward from previous page                       |         |      |     |             |              |             |
| 5,9  | Single Phase ABC Tee from Intermediate                          | 1157    | No   | 5   |             |              |             |
| 5,10 | Single Phase ABC X Suspensionn Assembly                         | 1158    | No   |     |             |              |             |
| 5,11 | Single Phase ABC Tee from Strain                                | 1159    | No   | 10  |             |              |             |
| 5,12 | Single Phase ABC X Intermediate Strain Assembly.                | 1160    | No   |     |             |              |             |
| 5,13 | LV - 1Phase BareNeutral ABC Inline Fuse Unit Assembly Wood Pole | 1161    | No   |     |             |              |             |
| 5,14 | Dual Phase ABC Intermediate Assembly                            | 1145    | No   | 12  |             |              |             |
| 5,15 | Dual Phase ABC Terminal Assembly                                | 1146    | No   | 6   |             |              |             |
| 5,16 | Dual Phase ABC Strain Assembly (0-60 deg)                       | 1147    | No   | 4   |             |              |             |
| 5,17 | Dual Phase ABC Strain Assembly (60-90 deg)                      | 1148    | No   |     |             |              |             |
| 5,18 | Dual Phase ABC Tee from Intermediate                            | 1149    | No   | 2   |             |              |             |
| 5,19 | Dual Phase ABC X Suspensionn Assembly                           | 1150    | No   |     |             |              |             |
| 5,20 | Dual Phase ABC Tee from Strain                                  | 1151    | No   | 5   |             |              |             |
| 5,21 | Single Phase ABC X Intermediate Strain Assembly                 | 1152    | No   | 4   |             |              |             |
| 5,22 | Thee Phase ABC Suspension Assembly 0-30                         | 1100    | No   | 4   |             |              |             |
| 5,23 | Thee Phase ABC Terminal Assembly                                | 1120    | No   | 7   |             |              |             |
| 5,24 | Thee Phase ABC Strain Assembly (0-60 deg)                       | 1121    | No   | 1   |             |              |             |
| 5,25 | Three Phase ABC Strain Assembly (60-90 deg)                     | 1122    | No   | 1   |             |              |             |
| 5,26 | Three Phase ABC Tee from Intermediate Assembly                  | 1140    | No   |     |             |              |             |
| 5,27 | Three Phase Intermediate Suspension Assembly                    | 1141    | No   |     |             |              |             |
| 5,28 | Three Phase ABC Tee from Strain                                 | 1142    | No   |     |             |              |             |
| 5,29 | Three Phase ABC X Intermediate Strain Assembly.                 | 1143    | No   |     |             |              |             |
|      | Amount carried over to next page                                |         |      |     |             |              |             |

| Item | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | DDT Ref | Unit | Qty | Supply Rate | Install Rate | Total Price |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|-----|-------------|--------------|-------------|
|      | Amount brought forward from previous page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |      |     |             |              |             |
|      | <b>LV FUSE SWITCHES UNITS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |      |     |             |              |             |
|      | Supply, deliver to site, off load on site and safely store. The fused switch shall be supplied complete with the pole mounting bracket, nuts, bolts, washers, etc. for securing the unit to the wooden pole. The fuses shall be supplied with the fuse switch unit. Fuse ratings shall be as shown on the drawings. Install the on load fused disconnecting switch on the transformer structure including the drilling of holes as required, including the termination of the LV ABC to the unit. Fuse ratings below allow for 120% overload.                                                                                               |         |      |     |             |              |             |
|      | One fuse unit is for the transformer and one unit per LV feeder for isolation/protection.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |      |     |             |              |             |
| 5,29 | 63A Dual Phase Load disconnecting switch MORSDORPHER.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0309    | No   |     |             |              |             |
| 5,30 | 80A Three Phase Load disconnecting switch MORSDORPHER.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0309    | No   |     |             |              |             |
| 5,31 | 125A Three Phase Load disconnecting switch MORSDORPHER.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0309    | No   | 3   |             |              |             |
| 5,32 | 160A Three Phase Load disconnecting switch MORSDORPHER.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0309    | No   |     |             |              |             |
|      | <b>EARTHING OF LV NETWORK</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |      |     |             |              |             |
| Note | All MV transformer earthing is measured elsewhere and all LV earths per structure are measured with the structure. This section is intended for LV earths at transformers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |      |     |             |              |             |
|      | Allowance shall be made for the testing (including earth loop impedance) of the earth resistance for the entire reticulation system in accordance with the TN-C-S earthing system as defined in the Distribution Standard Part 2 and any earth tests which may be required in terms of the standard and detailed specifications.<br>Use 2 x H-Crimps - neutral connection point.                                                                                                                                                                                                                                                            |         |      |     |             |              |             |
| 5,33 | LV Earth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0627    | No   | 3   |             |              |             |
|      | <b>LV Pole Mounted Service Boxes (Outdoor)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |      |     |             |              |             |
|      | Supply and install on a wooden and/or concrete pole a pole mounted distribution box as specified complete with pole mounting brackets, cable ties, PG clamps, miniature circuit breaker(s), neutral, phase and earth bars, insulated copper tails for connecting to LV ABC, insulation piercing connectors and factory installed cable openings. Included shall be the stainless steel strapping and buckles and terminations of the tails onto the LV ABC. Allow for required space on DIN rail for appropriate no of EMU's. Supply and install 5kA, 5kV rating surge protection between phase-neutral. To comply with NRS032 and DSP0018. |         |      |     |             |              |             |
| 5,34 | 1-2 Way 1x50A MCB Split Box in ABC Split Box onto Insulated Neutral ABC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3055    | No   | 16  |             |              |             |
| 5,35 | 1-4 Way 1x50A MCB Split Box in ABC Split Box onto Insulated Neutral ABC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3055    | No   | 4   |             |              |             |
|      | Amount carried over to next page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |      |     |             |              |             |

| Item                                     | Description                                                                                                                                                                                              | DDT Ref | Unit | Qty | Supply Rate | Install Rate | Total Price |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|-----|-------------|--------------|-------------|
|                                          | Amount brought forward from previous page                                                                                                                                                                |         |      |     |             |              |             |
| 5,36                                     | 5-8 Way 1x50A MCB Split Box in ABC Split Box onto Insulated Neutral ABC                                                                                                                                  | 3055    | No   |     |             |              |             |
|                                          | <b>TESTING</b>                                                                                                                                                                                           |         |      |     |             |              |             |
|                                          | Allowance shall be made for the testing of each LV ABC distributor on accordance with the project specification. Included shall be the provision of test certificates and all documentation as required. |         |      |     |             |              |             |
| 5,37                                     | LV Test, per zone. Ref. SCSASABZ1                                                                                                                                                                        |         | No   | 3   |             |              |             |
| <b>TOTAL: Carried forward to summary</b> |                                                                                                                                                                                                          |         |      |     |             |              |             |

**BILL NO 6 - HOUSE CONNECTIONS**  
**EBHUBESINI ELECTRIFICATION FOR 21 CONNECTIONS**

| Item                             | Description                                                                                                                                                                                                                                                                                                                                                                                               | DDT Ref   | Unit | Qty  | Supply Rate | Install Rate | Total Price |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------|------|-------------|--------------|-------------|
|                                  | <b>House Connections</b>                                                                                                                                                                                                                                                                                                                                                                                  |           |      |      |             |              |             |
|                                  | House Connections , test and commissioning complete. Poles and excavation are measured elsewhere.                                                                                                                                                                                                                                                                                                         |           |      |      |             |              |             |
| 6,1                              | Type A                                                                                                                                                                                                                                                                                                                                                                                                    | D-DT-0360 | No   |      |             |              |             |
| 6,2                              | Type B - (Service pole 100%)                                                                                                                                                                                                                                                                                                                                                                              | D-DT-0361 | No   | 21   |             |              |             |
|                                  | Supply and install, transport to site, offloading and safely store on the site the following Passive Base Units, ECU's , complete with rail, galvanised steel mounting brackets for securing to the dwelling, nuts, bolts, washers and lock washers as required. Secure the passive base, ECU and brackets to the dwelling as required including the termination of conductors. Excluding the conductors. |           |      |      |             |              |             |
| 6,3                              | READYBOARD, 20A,SPLIT METER 2x16A SKTS D3176                                                                                                                                                                                                                                                                                                                                                              |           | No   | 21   |             |              |             |
| 6,4                              | METER, 20A, SPLIT POWER-RAIL PLC D3145                                                                                                                                                                                                                                                                                                                                                                    |           | No   | 21   |             |              |             |
| 6,5                              | CIU                                                                                                                                                                                                                                                                                                                                                                                                       |           | No   | 21   |             |              |             |
| 6,6                              | Commissioning, testing and supply of certificate of compliance                                                                                                                                                                                                                                                                                                                                            |           | No   | 21   |             |              |             |
|                                  | <b>CONDUCTOR</b>                                                                                                                                                                                                                                                                                                                                                                                          |           |      |      |             |              |             |
| Note                             | Measured lengths for stringing shall be net line route lengths and unit rates shall include for sag, cut-offs etc.                                                                                                                                                                                                                                                                                        |           |      |      |             |              |             |
|                                  | Contractor to supply, safely store, transport to site and string. Installation includes all glands, lugs, shrouds, termination and connections as required.                                                                                                                                                                                                                                               |           |      |      |             |              |             |
| 6,7                              | Cable 1KV 2C 6mm SQ Concentric CU                                                                                                                                                                                                                                                                                                                                                                         |           | m    | 1050 |             |              |             |
| 6,8                              | Cable 1KV 2C 10mm SQ Concentric CU                                                                                                                                                                                                                                                                                                                                                                        |           | m    |      |             |              |             |
| 6,9                              | Submit populated <b>Control Sheet</b> and <b>PCS</b> CorDaptix information to the Project Engineer upon the successful energising of a customer. Payment will only be made upon the successful loading of the Data onto Eskom's CorDaptix software system. Resolve queries raised by Eskom and the Engineer.                                                                                              |           | No   | 21   |             |              |             |
|                                  | <b>SUNDRY ITEMS</b>                                                                                                                                                                                                                                                                                                                                                                                       |           |      |      |             |              |             |
|                                  | Supply and install pole in excavated hole, including cutting and scaffing, kicking bolts, bonding, treating, etc. Excavations and compaction are measured elsewhere.                                                                                                                                                                                                                                      |           |      |      |             |              |             |
| 6,10                             | 5m Pole, 80-99mm top diameter                                                                                                                                                                                                                                                                                                                                                                             | 0058A     | No   | 21   |             |              |             |
| 6,11                             | 7m Pole, 100-120mm top diameter                                                                                                                                                                                                                                                                                                                                                                           | 0058B     | No   |      |             |              |             |
| Amount carried over to next page |                                                                                                                                                                                                                                                                                                                                                                                                           |           |      |      |             |              |             |

| Item                                     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | DDT Ref | Unit | Qty | Supply Rate | Install Rate | Total Price |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|-----|-------------|--------------|-------------|
|                                          | Amount brought forward from previous page                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         |      |     |             |              | R -         |
|                                          | <p><b>Determination of pole positions, excavate in all ground conditions as necessary, and supply a mechanical boring device if required. The rate shall include backfilling, compaction to 93% MOD AASHTO density, and where necessary the supply and transportation of suitable ground as may be required to receive the desired compaction, except where cement is specified. Any damage to existing services shall be made good by the Contractor at his own expense and to the approval or the PM(C).</b></p> |         |      |     |             |              |             |
| 6,12                                     | Hole for 5m service pole - 1m deep                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         | No   | 21  |             |              |             |
| 6,13                                     | Hole for 7m service pole - 1.3m deep                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         | No   | 0   |             |              |             |
| <b>TOTAL: Carried forward to summary</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |      |     |             |              | R -         |

**BILL NO 7 - DISMANTLING & REMOVAL**  
**EBHUBESINI ELECTRIFICATION FOR 21 CONNECTIONS**

| Item                              | Description                                                                                                                                                                                                                                                                                                                          | DDT Ref | Unit | Qty | Supply Rate | Install Rate | Total Price |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|-----|-------------|--------------|-------------|
|                                   | <p>Recovering of Transformers, Structures, Insulators and Line Hardware.</p> <p>Allow for the disassembly , removal transport to site store &amp; to New Germany and booked back to stores with the relevant documentation. Include the backfilling consolidation and levelling of soil from excavation at the site of recovery.</p> |         |      |     |             |              |             |
| 7,1                               | MV Transformers and structures.                                                                                                                                                                                                                                                                                                      |         | No   | 3   |             |              |             |
| 7,2                               | Woodpoles MV incl. crossarms, insulators and hardware.                                                                                                                                                                                                                                                                               |         | No   | 0   |             |              |             |
| 7,3                               | Stays assemblies complete (LV/MV).                                                                                                                                                                                                                                                                                                   |         | No   | 0   |             |              |             |
| 7,4                               | Cross Arms, including assembly, accessories etc.                                                                                                                                                                                                                                                                                     |         | No   | 0   |             |              |             |
| TOTAL: Carried forward to summary |                                                                                                                                                                                                                                                                                                                                      |         |      |     |             |              | R -         |

**BILL NO 8 - LINE ROUTE CLEARING**  
**EBHUBESINI ELECTRIFICATION FOR 21 CONNECTIONS**

| Item                                     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | DDT Ref | Unit      | Qty | Supply Rate | Install Rate | Total Price |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------|-----|-------------|--------------|-------------|
|                                          | <b>Line Route Clearing</b><br><br>Clearing of trees from a servitude, including the stacking or disposal of cuttings and debris as directed by Eskom, and the poisoning of stumps with an approved poison/herbicide as per OHS Act & Eskom Regs. Cut bush & trees to be cut into 1-2m strips and removed from the MV/LV servitude. Allow for Security for working in the area where appropriate. Contractor to have certificates for ORHVS, Environmental Awareness, Plant Identification, Safe Working Procedures & Correct use of herbicides.<br><br>The CoW must audit quantities below and sign off as being correct, on notification from the Contractor to do so. |         |           |     |             |              |             |
| 8,1                                      | <b>Dense bush</b> (thin dense blackwattles, thornbush or brambles - not possible to walk through) <b>MV strip</b> (12m either side of the centre line) to be cleared and poisoned                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | No        | 10  |             |              |             |
| 8,2                                      | Ditto, but for <b>LV</b> (1m either side of the centre line or as per Eskom Regulations & TSC request) and no poisoning required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | No        | 10  |             |              |             |
| 8,3                                      | <b>Small trees</b> (less than 30cm diameter scattered bush or plantation - accessible on foot) <b>MV strip</b> (12m on either side of the line) to be cleared and poisoned.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         | No        |     |             |              |             |
| 8,4                                      | Ditto, but for <b>LV</b> (1m either side of the centre line or as per Eskom Regulations & TSC request) and no poisoning required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | No        |     |             |              |             |
| 8,5                                      | <b>Large trees</b> (greater than 30cm diameter) including poisoning/herbicides. Trees to be cut down as close as possible to the ground, but not higher than 50mm from ground level. Special equipment & expertise to be accommodated for where required for trees close to houses, roads, sensitive areas etc...                                                                                                                                                                                                                                                                                                                                                       |         | No        |     |             |              |             |
| 8,6                                      | Appointment of the Botanist to assess and apply for Tree-Cutting Permit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         | Prov. Sum |     |             |              |             |
| 8,7                                      | Submission of the approval of the Water Use Licence for MV/LV lines crossing any rivers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         | Prov. Sum |     |             |              |             |
| <b>TOTAL: Carried forward to summary</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |           |     |             |              |             |

| FINAL SUMMARY                                 |                                                               |              |               |             |
|-----------------------------------------------|---------------------------------------------------------------|--------------|---------------|-------------|
| EBHUBESINI ELECTRIFICATION FOR 21 CONNECTIONS |                                                               |              |               |             |
| ITEM                                          | DESCRIPTION                                                   | TOTAL SUPPLY | TOTAL INSTALL | TOTAL PRICE |
| 1                                             | PRELIMINARY AND GENERAL.                                      |              | R -           | R -         |
| 2                                             | MEDIUM VOLTAGE SWITCHGEAR, SECTIONALISERS, TRANSFORMERS, ETC. | R -          | R -           | R -         |
| 3                                             | MEDIUM VOLTAGE OVERHEAD DISTRIBUTION SYSTEM.                  | R -          | R -           | R -         |
| 4                                             | SUPPORT FOR OVERHEAD RETICULATION.                            | R -          | R -           | R -         |
| 5                                             | LOW VOLTAGE OVERHEAD DISTRIBUTION LINES.                      | R -          | R -           | R -         |
| 6                                             | CUSTOMER SERVICES AND GENERAL.                                | R -          | R -           | R -         |
| 7                                             | DISMANTLING.                                                  |              | R -           | R -         |
| 8                                             | LINE CLEARING.                                                |              | R -           | R -         |
| SUB TOTAL A=                                  |                                                               |              |               | R -         |
| Add: Contingencies ( 5% of SUBTOTAL A )=      |                                                               |              |               | R -         |
| SUBTOTAL B=                                   |                                                               |              |               | R -         |
| Add: VAT (15% of SUBTOTAL B)=                 |                                                               |              |               | R -         |
| TOTAL CARRIED FORWARD TO FORM OF OFFER=       |                                                               |              |               | R -         |

Signed on behalf of the Tenderer.....( Signature)

Date: .....

Tenderer's Name:.....( Company Name)