



<b>DIRECTORATE:</b>	<b>ENGINEERING SERVICES</b>		
<b>PROJECT DESCRIPTION:</b>	<b>CONSTRUCTION OF A PERMANENT 11KV SWITCHING STATION AT THORNHILL (MULTI YEAR PROJECT)</b>		
<b>BID NUMBER:</b>	<b>PM89/2017</b>		
<b>CIDB GRADING:</b>	<b>6EP OR HIGHER</b>		
<b>Polokwane Municipality</b> Supply Chain Management Division  Contact: Mr. K Mashiane Tel: (015) 290 2148 Email: <a href="mailto:kwenama@polokwane.gov.za">kwenama@polokwane.gov.za</a>	<b>Polokwane Municipality</b> Manager: Energy Services  Contact: Mr. CJ Pienaar Tel: (015) 290 2113 Email: <a href="mailto:pinep@polokwane.gov.za">pinep@polokwane.gov.za</a>	<b>Polokwane Municipality</b> Company: EOH Intelligent Infrastructure  Contact: Mr. C Janse van Rensburg Tel: +27 12-045 0290 Email: <a href="mailto:coenie.jvensburg@eoh.co.za">coenie.jvensburg@eoh.co.za</a>	
<b>Name of Bidder:</b>			
<b>Bid Amount (VAT Inclusive):</b>			
<b>BBBEE status:</b>			
<b>Bidder Address</b>			
<b>Central Supplier Database (CSD) Number:</b>			
<b>Contact numbers:</b>	<b>Cell:</b>	<b>Tel:</b>	<b>Fax:</b>
<b>Closing Date:</b>	<b>20 FEBRUARY 2017</b>	<b>Time:</b>	<b>10H00</b>



**EXPANDED PUBLIC WORKS PROGRAMME**  
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## POLOKWANE MUNICIPALITY

# ADDENDUM 1

### 1. ANNEXURE A : SUPPLY CHAIN MANAGEMENT : EVALUATION PROCESS AND CRITERIA (ADMINISTRATIVE COMPLIANCE – PHASE 1)

#### 1.2 Critical Criteria:

The following critical criteria have been identified for this bid and any non-compliance thereto will lead to the bid being regarded as non-responsive and disqualified from further evaluation:

- Proof of an accredited person, registered and certified as an installation electrician MUST be attached. This person must be permanently employed by the Company. (See page 18 of tender document)

### 2. 11kV SWITCHBOARD (Page 171 Item 21 & Page 287 Items B1 & B2)

During the last number of years many different types of 11kV switchboards and protection relays were marketed and released into the South African market. Each of these switchboards and relays have their own modes of operation, maintenance procedures, spare parts and software. Municipalities have to train their personnel in the correct operation and maintenance of each of these switchboards and relays installed in their networks. This consumes and waste a lot of man-power and therefore Municipalities are limiting / standardizing the number of new types of switchgear and protection relays in their network to ensure that personnel have the correct knowledge and experience for the correct and safe operation of switchgear and relays and to minimize spare parts to keep.

- a. Polokwane Municipality have lately installed the following switchboards and relays in their network:

Switchboard

Manufacturer : Schneider Electrical  
Model : Premset

Relays

Manufacturer : Schneider Electrical  
Model : MICOM P142

- b. **Tenderers can offer similar alternative switchboard manufacturers but must comply with the following:**

- The offered alternative switchboard is still to comply to the specification. The switchboard shall be of the fix pattern type. Rack-out metalclad units are not acceptable.
- The tenderer shall provide a comprehensive list with references and contact numbers of installations of the offered switchboard in South Africa as part of his offer.
- The manufacturer must provide training on the operation and maintenance of these switchboards. The costs of this training shall be included in this tender offer.
- The Data sheets in the tender document shall be completed in full at tender state in order to compare the offered switchboard.
- Tenderers are to verify at tender stage that their offered switchboard can fit within the building with space to add another panel to each side and free access around the panel. Should the offered switchboard not fit as detailed, the tenderer shall include in this offer for the enlargement of the building to accommodate his larger switchboard. Tenderers shall comply with **T1.2 Tender Data 5. TENDERER'S OBLIGATIONS:** paragraph 5.4 Alternative Tender Offers (Page 7).

- c. Tenderers can offer similar alternative relays but the relays must comply with the following:

- The relays must be of the numeric processor type.
- The relay shall have directional over-current and earth fault protection and also separate independent settings for non-direction over-current and earth fault protection.

- iii. The relays must be fully IEC61850 compliant with an Ethernet port for SCADA communication.
  - iv. The relays shall have a comprehensive event log and disturbance recording capacity.
  - v. Unlimited free copies of the Windows based software must be provided for setting up of the relays as part of the offer.
  - vi. The tenderer shall provide a comprehensive list with references and contact numbers of installations of the offered relays in South Africa.
  - vii. The manufacturer must provide training on the operation of the relays for a minimum of 10 Municipal employees and engineering training for a minimum of 4 Municipal employees in the implementation and setting up of the relays. The costs of this training shall be included in this tender offer.
- d. Protection settings for the relays will be provided by the Municipality. The successful tenderer will be responsible for the complete commissioning of the switchboard as detailed in paragraph 26 of Part C4.1 Scope of Works as well as the implementation of the protection settings provided by the Municipality.

3. **MULTIPLEXER (Page 291 Items 2.3 & 2.4)**

The multiplexer offered by the tenderers must communicate with the two existing General Electric Multilin TN1U SDH units at the other ends of the optical fibre lines.

Tenderers who want to offer alternative multiplexers must at tender stage ensure and guarantee that their units is fully compatible and can communicate with the existing units.

4. **RTU (Page 141 Item 5.5.1, Page 230 Item 31.9 & Page 291 Items 1.6 & 1.7)**

The RTU offered by the tenderers must communicate with the Municipal Control Centre utilizing the existing Municipal protocols and systems. The unit must also communicate with the relays in the substation over Ethernet network utilizing the IEC61850 protocol as detailed in the tender documentation.

The successful tenderer is to provide the full engineering service to compile the database, program and commission the RTU as detailed in the tender documentations.

5. **BUILDING**

- a. The tolerances for the floor as detailed on the building drawings which is stricter than the normal civil requirement shall be implemented as it is required for the accurate installation of the 11kV switchboard and electrical equipment.
- b. The doors as specified on the building drawings shall be provided to ensure the offload of the large equipment into the building.

6. **11kV CABLE**

Tenderers are to price the 11kV cable as specified in the tender document. Tenderers are also to note the length of cable required. The Municipality will not take over extra cable.

7. **BILL OF QUANTITIES**

- a. Only the Bill provided in the tender document duly completed in ink will be accepted. Print-out of Excel generated Bill of Quantities will not be accepted.
- b. Item 6.5.1 ADSS cable: The quantity of ADSS cable to be installed is 240m and not 100m.
- c. The soft copy of the Bill of Quantities in Excel format is available. Tenderers are to send a requesting e-mail to the Municipality and the Engineer. The tenderers are utilizing the file at their own risk. The Municipality and the Engineers do not take any responsibility or liability for the accuracy of this Bill or the formulas in the file. Tenderers are to check the formulas.