

# **TENDER 172Q/2024/25: 145 KV GIS SWITCHGEAR AND ASSOCIATED EQUIPMENT FOR WOODSTOCK SWITCHING STATION**

## **TENDER CLARIFICATION MEETING**

**Date:** 2025-04-22

**Time:** 11:00

**Venue:** Philippi Switching station

### **1 PRESENT**

**Various possible tenderers, as per signed attendance register**

#### **City of Cape Town (CCT)**

Faried Esau

Etienne Le Roux

Kevin Hess

Ralph February

Edgar Osborne

### **2 DISCUSSION POINTS**

- 2.1 The clarification meeting on site was not compulsory but a strongly recommended meeting.
- 2.2 It was an opportunity to emphasize certain key aspects of the tender and the existing and proposed buildings into which the switchgear and extension bus ducts need to fitted. Thus it was not a comprehensive discussion of the tender document.
- 2.3 Unless a formal notice is issued by the CCT, the tender document is to be viewed as correct. Anything stated at the clarification meeting that could alter the tender document is therefore not enforced unless it is contained in a formal notice to tenderers.
- 2.4 Hard copies of the technical drawings were available for tenderers.
- 2.5 The Contractor shall be responsible to appoint a Field Agent under this contract. The field agent shall be a competent and an OEM certified resource who can respond to site within 48 hours during the defects and latent defects liability.

### **3 Implementation program**

- 3.1 The new switchgear installation can be done independently of the existing switchgear, except for the GIS to AIS bushings on the two Eskom incomer bays
- 3.2 Installation will be performed over 5 phases/sections as follows:

**Phase 1 (Section A1) – Installation of new 25-panel Switchboard:** Site access to the new HV switch-room will be given 14 days prior to delivery of switchgear. Contractor will be responsible for delivering, off-loading, erection

and cold commissioning of the entire 25-panel switchboard, including HV and PD testing before energising, for a duration of approximately 720 days.

**Phase 2 (Section A2) - First Eskom Change Over and Bus Duct Extension:**

Outage is required on the second Eskom Bay to remove existing Siemens open terminal bushings and installation of new bushings utilising the same location and wall aperture. Contractor shall also be responsible to blanked off and re-gassing of the remaining Eskom bay. Erection of the internal extension Bus Ducts shall also take place during this outage, while the first Eskom extension Bus Ducts and the new switchgear will be in service. HV and PD Testing must be performed again prior to energising the second new Eskom Incomer bay. Outage duration to do the change-over of the second Eskom bay will be approximately 28 days

**Phase 3 (Section A3) - First HV Change Over:** Access to the switchgear shall be given to the HV Cable Contractor for termination of existing cable feeders onto new Switchgear in turn. The HV GIS Contractor's commissioning engineer and other relevant personnel shall be available during the HV cable termination and hot commissioning period, approximately 75 days, for the individual feeder protection schemes (end-to-end test and on-load test), as per the Contractor's scope of works

**Phase 4 (Section B1) - First Eskom Change Over and Bus Duct Extension:**

Outage is required on the second Eskom Bay to remove existing Siemens open terminal bushings and installation of new bushings utilising the same location and wall aperture. Contractor shall also be responsible to blanked off and re-gassing of the remaining Eskom Bay. Erection of the internal extension Bus Ducts shall also take place during this outage, while the first Eskom extension Bus Ducts and the new switchgear will be in service. HV and PD Testing must be performed again prior to energising the second new Eskom Incomer Bay.

**Phase 5 (Section B2) - Final HV Change Over:** The HV Cable Contractor will proceed with termination of the remaining existing cable feeders onto new Switchgear in turn. The HV GIS Contractor's commissioning engineer and other relevant personnel shall be available during the HV cable termination and hot commissioning period of remaining feeders, approximately 67 days.

- 3.3 The contractor shall be responsible for all his equipment and tools during the various installation phases of the Works.
- 3.4 Design fees will be paid once ALL the required design drawings have been submitted and approved by the Engineer as specified in the advertised tender document.
- 3.5 This tender goes hand in hand with a building tender (for floor modifications) and HV cable tender (for new terminations). This building contract requires the final design of the switchgear platform.

## **4 Items highlighted**

### **4.1 Eligibility:**

- CIDB Grading of at least 9EP
- Compliance with CCT SCM Policy and Procedures
- Good standing with Bargaining Council
- Functionality
  - Key Personnel
  - Track Record of Equipment – Indoor HV GIS
  - Demonstrated Experience of the Tenderer – HV AIS and/or GIS
  - Maintenance and Service department in South Africa
- Type Test
- Technical requirement and data sheets

4.2 The City will only accept equipment that meets the specification, with a proven track record. Tenderers should provide track record for equipment manufactured in the same factory as the equipment offered. The track record of equipment manufactured in one country cannot be used as evidence of equipment manufactured in another country.

4.3 Track record requires evidence of projects completed with similar scope and complexity.

4.4 The specified requirements and level of competency for each of the listed key personnel is a necessity, not an option. Schedule 12: Key Personnel is to be completed in FULL. CVs appended to the schedule is only considered supplemental and does not replace Schedule 12.

## **5 General**

5.1 The tender must be completed in non-erasable black ink, by hand. The only exception is the Schedule of Rates, which may be completed electronically. If the tenderer wishes to complete these documents electronically, the electronic copy must be an EXACT replica of the tender document.

5.2 Every item included in the Schedule of Rates must be priced. No partial submission will be accepted. Any partial submission will be deemed non-responsive.

5.3 No local content applicable

5.4 Estimated quantities are set out in the Schedules of Rates. The final Contract Price shall be computed from the actual quantities of work done.

5.5 Schedules of Quantities Optional Work: Tenderers are required to price for all the items listed under optional work.

- 5.6 Tenderers must note that wherever this document refers to any particular trade mark, name, patent, design, type, specific origin or producer, such reference shall be deemed to be accompanied by the words “or equivalent”.
- 5.7 Where cover letters contradict the tender conditions, these contradiction of the tender conditions will result in the tenderer being ruled as non-responsive.

## **6 Technical items highlighted**

### **6.1 Pressure relief**

5.2.3 Overpressure created by arcing in an enclosure shall be relieved by means of bursting discs venting into the atmosphere. Pressure relief by collapse of internal gas barriers is not acceptable.

☞ The specification asks for a **pressure relief (vent) on each enclosure**, not only the circuit breaker enclosure.

### **6.2 DC**

- (a) Schedule 4: 4.4; 110V DC for Lead Acid Planté allowed in bill:
- (b) SCS is supplied @ 110V DC
- (c) RTU is supplied by 110V DC
- (d) If the RTU offered cannot be supplied by 110V DC, then also price separately for 48V DC system.
- (e) DC system sizing will need to be done by the supplier as only they can determine this based on the equipment supplied.

### **6.3 Earthing**

The substation earth mat is not part of this tender. There is an existing substation earth mat. The Contractor shall supply and install an earthing system to connect all new equipment in the substation to the existing earth bars. Earthing connections to equipment included in this contract shall be provided under this contract.

### **6.4 Relays & SCADA**

- (a) Remote RED's model & versions, to ensure whether existing remote relays can communicate with new relays for inter-tripping: RED 670 version 2.2.1
- (b) New remote MicroSCADA required and will replace the existing system
- (c) Control centre details: ABB Network Manager
- (d) Tenders should take note where Inter-tripping schemes (as per specification) are required on
- (e) Please ensure to comply to the requirements for relay inputs as per Volume 1

### **6.5 Testing: The site tests include a PD test. Clause 6.9.1.12 Technical Specification - Partial discharge measurements shall be conducted to IEC 62271-203 clause 11.101.2.2 **Procedure B**.**

6.6 Questions (Q) from Tenderers and the respective Answers (A):

(a) Q: Existing RED Versions?

A: At Philippi SSTN:

Athlone 1 & 2 – Version 2.2.3

Gugulethu 1 & 2 – Version 2.2.3

Grassy Park 1 & 2 – Version 2.2.1

Rosmead 1 & 2 – Version 2.2.5

Newfields 1 & 2 – Version 1.1.01

At Athlone SSTN:

Philippi 1 & 2 – Version 2.2.3

At Gugulethu SSTN:

Philippi 1 & 2 – Version 2.2.3

At Grassy Park SSTN:

Philippi 1 & 2 – Version 2.2.1

At Rosmead SSTN:

Philippi 1 & 2 – Version 2.2.5

At Newfields SSTN:

Philippi 1 & 2 – Version 1.1.01

(b) Q: Correctness of Email address in the Tender document?

A: Email address: SCM.Tenders12@capetown.gov.za is correct and has been reported to the City's IT Department to accept external mail.

(c) Q: Responsibility for Security on Site?

A: The Switching Station perimeter fencing and access gate will be secured and monitored by the City of Cape Town. However, the area is considered high-risk, and the Contractor shall remain fully responsible for the security of all his/her equipment and his dedicated portion of the site until Hand Over. The Contractor must therefore make adequate provision for this risk within the tendered rates. The City will not accept responsibility for the security of any equipment prior to Hand Over.

  
Faried Esau

Date: 2026/04/24