

BRIEFING SESSION AND SITE INSPECTION QUESTIONS AND ANSWERS:

GTAC 016-2020-21 - UPGRADING OF PRINCE'S PARK SUBSTATION AND BULK ELECTRICAL WORKS FOR SALVOKOP EXTENSION 5

MINIMUM CIDB GRADING: 8EP

This document sets out Tender Clarifications as provided for in the Information to Tenderers document included in the tender pack.

CLARIFICATIONS

- Requests for clarification must be made in writing by e-mail to psp@gtac.gov.za
- Requests for clarification will be accepted by GTAC until 20 November 2020. The submission reference [GTAC 016-2020-21] should be mentioned in the email.
- Telephonic requests for clarification will not be accepted.
- The clarifications will be made available to all applicants by a notification on the following websites:
https://www.gtac.gov.za/Pages/Advertised_Tenders.aspx
http://www.treasury.gov.za/tenderinfo/GTAC/tenders.aspx/tender_e-portal/

The questions received within the period allowed were consolidated and answered as per the table below:

Question 1:

If the chat meeting was disabled during the briefing session would that be a disqualification

Response:

TN Confirmed that it will not be a disqualification rather send an email to Nolubabalo.Tokwe@gtac.gov.za if there are any challenges

Question 2:

Can we get the copy of the presentation?

Response:

TN Confirmed that It will be uploaded on the GTAC website or emailed to the people attended the briefing session.

Question 3:

Subcontracting 30%?

Response:

It is not be practical to subcontract 30% of the value of the Prince's Park substation due the following reasons:

1. The work entails specialised electrical engineering services which will be executed in a live substation environment.
2. A substantial portion of the budget (at least 80%) will be spent on the technical designs, procurement and installation of electrical equipment which is the core function of the appointed contractor.

Question 4:

The offloading of the equipment and installation of switchgears access?

Response:

The main access during construction will be the gate immediately west of the substation in Nana Sita Street. A temporary access may be created at the carports next to the building to offload 132kV GIS equipment, provided that the contractor reinstates the palisade fence. Any carports (other than the five scheduled for demolition) removed must be reinstated at completion.

Question 5:

It is noted that the abovementioned tender calls for the supply of a 58-panels of 11kV switchgear. ACTOM has spoken to numerous switchgear manufacturers who have all confirmed that it is not possible to provide a double bus arrangement at the specified maximum panel widths (i.e. 650 mm maximum for panels up to 1250A and 900 mm maximum for panels up to 2500A). Resultantly we believe that there are three options to resolve this problem, as listed below:

1. Switch from a double to single busbar arrangement, which we recommend as the most practical approach;
2. Reduce the number of specified switchgear panels to align with the space available; or
3. Enlarge the building to be able to house all the specified switchgear panels.

Response:

In the Engineer's opinion there are panels that will fit.

The limits referred to in the question are stated in the Part T2.2 Technical Returnable Schedule 1.2 items 1.3.3 and items 1.3.4. The maximum limit refers to a scenario where a feeder board is not to be separated at the bus-coupler or bus-sectionalizer across two rooms (e.g. breaker in one room and bus-riser in the other room). The reference to a maximum dimension in items 1.3.3 and 1.3.4 of Technical Returnable Schedule 1.2 can be relaxed. The tenderer can consider wider panels, but must take the available space into consideration and must strive to have 1200mm available at the ends of feeder boards as indicated on drawing 11626-E-100. Existing switch room 1A+2A in total is 27.39m long while existing 11kV switch room 1B+2B is 25.03m long. The switch rooms are 5.5m wide.

Drawing 11626-E-100 shows one configuration and contains a note to indicate potential space where panels 20 to 29 may also be located. For such an alternative configuration for which the note caters, one bus-sectionalizer and riser panel needs to be separated across two rooms (less ideal but still acceptable and will require a cable link through the tunnels underneath the substation).

Should the tenderer still feels that the equipment he/she wishes to offer will not fit, the extension of the substation building must be priced as a new lump sum item "10.13 Substation Building Extension" on "Schedule 10: Building Alterations" in the Bills of Quantities, and shall include for all building plans, building plan approval, foundations, building works etc. which the tenderer deems necessary to extend the building. If the offered equipment will fit, with 1200mm space at the ends of panels, then the tenderer do not need to price a new item 10.13.

The tenderer must ensure compliance to the applicable requirements Part T of the National Building Regulations (SANS10400), in particular the dimensions of emergency escape route(s).

Question 6:

The BOQ stipulates the prices as FOB Port of Shipment. Column E in the BOQ

Does this mean the client is responsible for logistics including duties and clearance from country of origin to port of entrance in South Africa?

Response:

The reference to FOB (Freight on Board) is for local content calculation and does not detract from the contractor's responsibility to price supply and installation completely.

For simplicity, all of the foreign transport costs must be included in the foreign portion of the price.

Question 7:

With reference to the BOQ item 4.3.8 GIS Factory type tests:
Please clarify the reason for these tests. The switchgear offered already has type tests certificates for the required tests.

Does GTAC require the specific type tests to be done of the switchgear offered?

4.3		<u>132kV Equipment</u>	
4.3.8		GIS factory type tests: Heat run, sound level and RIV according to IEC	Lot

Response:

If the specific equipment offered already has previous type tests conducted, then the contractor does not price the type test line item and can simply state "Included elsewhere", as the supply rate of the equipment is then deemed to include it.

Question 8:

On the GIS at the site meeting it is mentioned that the Oil cable will need to terminated onto the GIS switchgear. We had a discussion with the TE (TE Connectivity, supplier of termination Kits)

The recommendation from TE Connectivity is not to terminate the oil cable in the switchgear cable compartment. A stop plug termination 15m away from the switchgear is recommended and a transition joint to a XLPE cable is recommended. The XLPE cable terminates in the cable compartment of the switchgear.

Response:

The proposed method is acceptable, provided that the tenderer allows in the tendered rates for the 132kV cable termination for all materials and labour required to achieve the termination.

SUBMISSION OF BIDS

Hand deliver the bids to:

Physical address:
240 Madiba Street (Vermeulen)
Pretoria
National Treasury Building
GTAC Offices
24th floor, Reception Area.