



CITY OF CAPE TOWN
ISIXEKO SASEKAPA
STAD KAAPSTAD

TRANSMISSION SYSTEM DEVELOPMENT

Electricity Generation and Distribution

Making progress possible. **Together.**

135Q/2024/25

TERM TENDER FOR DESIGN, MANUFACTURE, DELIVERY, INSTALLATION AND COMMISSIONING OF POWER TRANSFORMERS

Please type your full names, surnames, and companies represented in the
chat box (for record purposes)

Outline

- Introduction
- Tender clarification by City of Cape Town
- Questions from Tenderers

Introduction

- This is a non-compulsory briefing meeting
- This is not a comprehensive discussion of the Tender document
- This is an opportunity to highlight some key points regarding the tender and to provide prospective tenderers with the opportunity to clarify any areas of uncertainty.
- This presentation does not supersede the tender document and the requirements of the formal tender document will remain in force unless specifically clarified or amended in a formal Notice to Tenderers issued by the City.
- The minutes of this meeting will be shared as Notice 1
- The electronic version of the document is available: PDF, and Excel BOQ on proof of payment

Tender Clarification by City of Cape Town

Scope

- Scope: design, manufacture, testing at the Manufacturer's Works, supply, delivery to site, off-loading, erection, site testing and commissioning of the transformers and associated equipment detailed in the Schedules intended for use in Primary Step-down (HV to MV) main substations and selected distribution substations
- Period of 3 (three) years for various Works Projects within the boundaries of the City of Cape Town metropolitan area of the following:
 - Item A: Medium Capacity Power Transformers (7EP – 8 EP)
 - Item B: High Capacity Power Transformers (8 EP)
 - Item C: Relocation/Removal of Power Transformers and/or other minor works (1EP – 3 EP, 6EP)
- Tenderers may offer for only one item any two items or all items.
- Tenderers must have a CIDB contractor grading designation of 1EP or higher (Item C); 2EP or higher (Item C), 3EP or higher (item C), 6EP or higher (Item A), 7EP or higher (Item A & B) and 8EP or higher (Item A & B).

Tender Clarification by City of Cape Town

Scope (2)

Item A - Medium Capacity Power transformers:

- 132/11,5 kV or 132/11,66 kV 50 MVA
- 66/11,5 kV or 66/11,66 kV 40 MVA & 50 MVA
- 33/11,5 kV 20 MVA
- 132/11,5 kV 20 MVA
- 132-66/11,5 kV 50/30 MVA

Item B – High Capacity Power transformers:

- 132/33/22 kV 90 MVA

Item C – Relocation/Removal of Power Transformers and/or Other Minor Works

- Fourteen (14) types of Power Transformers in total – all line items have to be priced

Tender Clarification by City of Cape Town

- The Employer intends to appoint one tenderer per item and CIDB grade (the highest ranked tenderer ("the winner")) and in addition an alternative tenderer.
- Only the Schedule of Quantities and the Technical Schedules may be completed electronically, everything else must be handwritten in black ink.
- Complete all Returnable Schedules in black ink – may attach supporting info to each Schedule but complete the Schedules as issued as well.
- Request for PDF copy of tender document or an electronic BOQs (Schedules of Quantities) can submitted to Johanette.VanDerMerwe@capetown.gov.za together with the proof of payment of the tender fee.

Tender Clarification by City of Cape Town

Responsiveness Criteria (1)

- **Responsive Criteria:**

- Only those tenders that satisfy the following criteria will be declared responsive:
 - C.1.7 **City of Cape Town Supplier Database** Registration: Tenderers must be registered upon being requested and within requested period.
 - C.1.8 **National Treasury Web Based Central Supplier Database (CSD)**
Registration
 - C.2.1.4.1 **Construction Industry Development Board (CIDB) Registration:**
Only those tenderers who are registered with an active status with the CIDB in a contractor grading designation equal to or higher as required are eligible for evaluation.
 - C.2.1.4.2 **Compliance with requirements of CCT SCM Policy and procedures**

Tender Clarification by City of Cape Town

Responsiveness Criteria (2)

- **Responsive Criteria (cont'd):**
- **C2.1.4.3 Minimum score for functionality**
- **C.2.1.4.3A Functionality requirements for Items A & B**

In order to be considered for a contract in terms of this tender, tenderers must achieve the minimum score for functionality as stated below.

Description of functionality criteria	Maximum possible score
Qualifications and demonstrated experience of the key staff in relation to the scope of work;	25
Track Record of Equipment (Manufacturer)	5
Demonstrated Experience of Tenderer	5
Maximum possible score for Functionality	35

The minimum score for functionality is **21**. Tenderers that fail to achieve the minimum score for functionality will be declared as non-responsive. Take note, must **achieve minimum score for each sub criterion**.



Tender Clarification by City of Cape Town

Responsiveness Criteria (3)

- **Responsive Criteria (cont'd):**
- **C2.1.4.3 Minimum score for functionality**
- **C.2.1.4.3B Functionality requirements for Item C**

In order to be considered for a contract in terms of this tender, tenderers must achieve the minimum score for functionality as stated below.

Description of functionality criteria for Item C	Maximum possible score
Qualifications and demonstrated experience of the key staff in relation to the scope of work;	25
Demonstrated Experience of Tenderer	5
Maximum possible score for Functionality	30

The minimum score for functionality is **18**. Tenderers that fail to achieve the minimum score for functionality will be declared as non-responsive. Take note, must **achieve minimum score for each sub criterion**.



Tender Clarification by City of Cape Town

Responsiveness Criteria (4)

- **Responsive Criteria (cont'd):**

- C.2.1.4.5 **Good standing with Bargaining Council:**

Civil Engineering Industry

National Bargaining Council for the Electrical Industry of South Africa

Metal and Engineering Industries Bargaining Council

- C.2.1.4.8 **Type Test Certificates (For Items A & B only, this is not a requirement for Item C) :**

The equipment must be type tested in accordance with the Specification and Schedules.

Note: No local content requirement

Tender Clarification by City of Cape Town

Technical considerations

Reverse Power Flow

- Refer to Schedule 25.3 Items 3.8.1.3
- Maximum reverse power flow to be provided by tenderer
- Requirement for a minimum of 20% of the capacity reverse flow

Short-circuit impedances

- **No short-circuit impedance values** are specified in the tender specification
- The **fault level values** are stated in Schedule 25.3 Item 3.8.3 and C3.4.1.1
- Tenderer needs to calculate the impedance to comply with the fault level values stated in Schedule 25.3 Item 3.8.3 and C3.4.1.1 :
 - High Impedance – parallel operation required: 40 MVA = 2 in parallel; 20 MVA = 3 in parallel
 - Standard Impedance – NO parallel operation required; except TYPE 13 (132/11,5 kV 20 MVA)= 2 in parallel;
 - Clause 8.3 of Vol 3A : When the transformers operate in parallel the impedance on any tap shall be determined to restrict the LV fault level to the specified level with 40 kA on the HV terminals. Parallel operation shall imply to two transformers for units 40 MVA and larger and three transformers for 20 MVA units.

Tender Clarification by City of Cape Town

Pricing assumptions

Pricing Assumptions (p.97)

- Clause 5: **No quantities** are set out in the Schedules of Rates.
 - The Contractor will be required to undertake whatever quantities may be directed by the Employer's Agent from time to time in the relevant **Works Project**.
 - The final Contract Price for each completed Works Project shall be computed from the actual quantities of work done, valued at the relevant rates.
- Clause 8: A rate is to be entered against each item in the Schedules of Rates.
 - If a nil rate (i.e. "nil" or "0.00") is entered against an item, it will be considered that there is no charge for that particular item.
 - **An item against which no rate (or rates, in the case of rate categories if provided) is/are entered, or if anything other than a rate or a nil rate (for example, a zero, a dash, "N/A", or the word "included" or abbreviations thereof) is entered against an item, it will also be regarded as a nil rate** having been entered against that item, i.e. that there is no charge for that item.
 - The Tenderer may be requested to clarify nil rates, or items regarded as having nil rates; and the Employer may also perform a risk analysis with regard to the reasonableness of such rates.



Tender Clarification by City of Cape Town

Schedule of Rates

Schedule of Rates (Items A 2.2 & B 2.2 - p.102 & 108 and Item C 1.2 – p.113)

- Performance Guarantee
 - The cost to be given here is not the full value of the performance guarantee, but the cost the tenderer will incur to secure this value of performance guarantee from its financial institution.

2. GENERAL ITEMS

Item No.	Description	Unit	Unit Rate (R)
2.1	Health and Safety compliance per Works Projects	each	
2.2	Cost of providing additional Performance Guarantees as may be required, per R 100 000,00 of guarantee value, for the duration of the required guarantee validity	R per R 100 000 guarantee value	
2.3	Contingency per Works Project	% of subtotal	10

Tender Clarification by City of Cape Town

Payments

- **No advance payments**

Offers that include advance payments will be considered non-responsive.

Tender Clarification by City of Cape Town

Evaluation

Evaluation of tender offers (p.22):

Any costs that the Employer will incur in accepting this offer will be included in the basis for the comparative offer including building accommodation costs and the Capitalised Cost of Losses

Item C: Comparative Price (P) = Tender Price

Item A & B: Comparative Price (P) = Tender Price + Sum of the Capitalised Cost of Losses + Sum of the Additional Civil Costs + Value-added Tax

Sum of Capitalised Cost of Losses = (A x B) + (C x D) PER TRANSFORMER and summed together

Where:

- A is the No Load Loss cost of losses in T2.2 Schedule 24.3: General Particulars Item 9.1
- B is No Load Losses in T2.2 Schedule 24.3: Power Transformer Item 23
- C is Load Loss cost of losses in T2.2 Schedule 24.3: General Particulars Item 9.2
- D is Load Losses in T2.2 Schedule 24.3: Power Transformer Item 24

Sum of the Additional Civil Costs = additional space required in square metres (E – F) x R35 214 PER TRANSFORMER and summed together

Where:

- F = Additional space is the space required and entered in T2.2 Schedule 24.3: Power Transformer Item 38
- E = Transformer Bay Dimensions specified in T2.2 Schedule 24.3: General Particulars Item 11

Questions from Tenderers

- Floor is open for questions.



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Thank You

Making progress possible. Together.