CITY OF CAPE TOWN
ISIXEKO SASEKAPA
STAD KAAPSTAD

FINANCE
SUPPLY CHAIN MANAGEMENT

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Supply Chain Management

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NOTICE TO TENDERERS NO: 1 **21 May 2025**
Pages: 6

TENDER FOR DESIGN, MANUFACTURE, SUPPLY AND INSTALLATION OF 132 KV UNDERGROUND CABLE AND ACCESSORIES FOR WOODSTOCK SWITCHING STATION

CLOSING DATE OF TENDER: 04 June 2025
BOX NUMBER: 222

Dear Sir/Madam

SITE CLARIFICATION MEETING AND AMENDMENTS TO THE CONTRACT DOCUMENT

SITE CLARIFICATION MEETING

The minutes of the clarification meeting held on 9 May 2025 are attached.

AMENDMENTS TO THE CONTRACT DOCUMENT – REPLACEMENT PAGES

1) AMENDMENTS TO THE CONTRACT DOCUMENT

Your attention is specifically drawn to the amendments which are to be made to the Contract Document for the above in terms of Clause C.3.2 of the Standard Conditions of Tender and you will be deemed to have made any allowances necessary to provide for these amendments in your tender offer.

PAGE 110: C3.2 Engineering
Tenderers to note that page 110 of Part C3, C3.2, Engineering, be replaced with the attached page 110A. (Page number updated)

PAGE 176: C5 – Returnable Schedules
Tenderers to note that page 176 of Part C5, C5.2, Returnable Schedules, be replaced with the attached page 176A. (Page number updated)

Tenderers are to return a signed copy of this notice with the submission of their Tender. Failure to return a signed copy of the Notice may result in the Tender being declared Non-Responsive.

Yours faithfully,

Sinethemba Mpata Digitally signed by Sinethemba Mpata
Date: 2025.05.21 08:50:48 +02'00'
……

For:

Director: Supply Chain Management

WRITTEN ACKNOWLEDGEMENT OF RECEIPT OF NOTICE 1 – 258Q/2024/25

Signature ..... **Date** .....

Legal and full name of tendering entity:

……

C3.2 Engineering

CONTENTS

3.2.1 DESIGN SERVICES AND ACTIVITY MATRIX

- Concept, feasibility and overall process.- Employer
- Basic engineering and detail layouts to tender stage - Employer
- Detailed and Final design for approval for construction- Contractor
- Temporary works - Contractor
- As built drawings - Contractor

The contractor shall design all the equipment required to complete the Works as specified in Vol 1.

3.2.2 EMPLOYER'S DESIGN

Any civil Works excluded from the Scope of Work (detailed in the Works Project Document) shall be designed and provided by the Employer.

3.2.3 DESIGN BRIEF

This Scope of Works provides for the design, manufacture, testing at the Manufacturer's Works, supply, delivery to site, installation, jointing, site testing, commissioning and maintenance of all the 132 kV underground cable and accessories necessary to form a complete installation in two phases detailed in the Schedules at rates tendered by the Contractor in the Schedules of Quantities.

All joints offered shall be of a standard design and type tested for the system design offered. The equipment shall be:

- Woodstock – Montague Gardens feeders: The installation of new 132 kV cable to be jointed to existing CBI African Cables, 500mm^2 132 kV single-core copper (Cu), XLPE insulated, Standard stress, CSA sheathed cable. The new cable shall be single core copper (Cu) conductor to match existing.

- Woodstock – Foreshore feeders: The installation of new 132 kV cable to be jointed to existing BICC, 500mm^2 132 kV three-core circular aluminium (Al), Paper insulated, oil impregnated, Standard stress, CSA sheathed cable. The new cable shall comply with the ratings specified in the schedules.

- Woodstock – Constitution feeders: The installation of 132 kV cable to be jointed to existing CBI African Cables 400mm^2 132 kV single-core aluminium (Al), XLPE insulated, Standard stress, CSA sheathed cable. The new cable shall comply with the ratings specified in the schedules.

- Woodstock – Tamboerskloof feeders: The installation of 132 kV cable to be jointed to existing CBI African Cables 240mm^2 132 kV single-core copper (Cu), XLPE insulated, Standard stress, CSA sheathed cable. The new cable shall comply with the ratings specified in the schedules.

- Woodstock Main Station feeders: The installation of new 132 kV between the GIS switchgear and the existing main station transformers. The new cable shall comply with the ratings specified in the schedules

- other associated equipment

3. 132 kV POWER CABLES

Item No.	Description	Requirements	Particulars of equipment offered				
			Woodstock – Montague Gardens	Woodstock – Foreshore	Woodstock – Constitution	Woodstock – Tamboerskloof	Woodstock Main Station
1	Nominal voltage between phases of three-phase circuit, U_o kV	132					
2	System highest voltage, U_m kV	145					
3	System frequency Hz	50					
4	Earthing of system neutral	Solid					
5	Maximum system symmetrical fault level (single and three phase) which the completed installation, conductor and metallic sheath must be capable of withstanding:						
5.1	Short circuit current kA.1s	40					
5.2	Asymmetrical crest factor	2,5					
6	Maximum dielectric stress at the conductor kV/mm	7,8					
7	Maximum permissible conductor temperature °C	90					
8	Permissible sheath temperature (at Nominal MVA rating) °C	70					
9	Maximum sheath standing voltage at rated current V	65					
10	Impulse withstand level of cable termination and cable kV_p	650					
11	Power frequency withstand level of cable	To IEC 60840					
12	Maximum partial discharge level measured at 1,5 U_o (Type and Routine test) pC	5					
13	Circuit configuration and spacing	XXXXX					
14	Maximum trench width mm	1 200					

TENDER 258Q/2024/25: DESIGN, MANUFACTURE, SUPPLY AND INSTALLATION OF 132 KV UNDERGROUND CABLE AND ACCESSORIES FOR WOODSTOCK SWITCHING STATION

TENDER CLARIFICATION MEETING

Date: 2025-05-09
Time: 10:00
Venue: Teams

1 DISCUSSION POINTS

1.1 The clarification meeting was not a compulsory meeting. Furthermore, it was an opportunity to emphasize certain key aspects of the tender and clarify areas of uncertainty. Thus it was not a comprehensive discussion of the tender document.

1.2 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.

1.3 Request for PDF copy of tender document or an electronic BOQs (Schedules of Quantities) may be submitted to SCM.Energy@capetown.gov.za together with the proof of payment of the tender fee.

1.4 The scope of the tender is for

New 132 kV cable to be jointed onto existing XLPE and oil-filled cable:
Supply of terminations and joints, including XLPE-oil transition joints
The civil and installation work, which will be done in two phases with a period in between for the new GIS switchgear installation.

1.5 The estimated CIDB contractor grading designation is 7EP or higher.

1.6 The Employer intends to appoint one tenderer per item and CIDB grade (the highest ranked tenderer ("the winner") and in addition an alternative tenderer.

1.7 Only the Schedule of Quantities and the Technical Schedules may be completed electronically, everything else must be handwritten in black ink. Tenderers may attach supporting info to each Schedule but complete the Schedules as issued as well.

1.8 Responsiveness Criteria was discussed and it was noted that tenderers must comply with the following clauses:

- **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
- **C.2.1.4.3:** Minimum score for functionality: In order to be considered for a contract in terms of this tender, tenderers must achieve the minimum score for functionality as stated below. The description of the functionality criteria and the maximum possible score for each is shown in the table below. The score achieved for functionality will be the sum of the scores achieved, in the evaluation process, for the individual criteria.

Description of functionality criteria	Maximum possible score
Qualifications and Demonstrated Experience of the key staff in relation to the scope of work;	15
Track Record of Equipment	10
Demonstrated Experience of Tenderer	10
Maximum possible score for Functionality	**35**

The minimum score for functionality is 21 (60%). Tenderers that fail to achieve the minimum score for functionality will be declared non-responsive.

To be considered for functionality points the tenderer must have the following key personnel in its permanent employment at the close of tender or alternatively, a signed undertaking from a specialist company having the required personnel :

Contractor Representative
(B-Tech / BSc – who have undertaken at least 5 (five) HV Cable Projects with similar scope)

Foreman / Construction Supervisor
(A qualified artisan with least 5 (five) years experience & 5x HV cable projects)

Jointer (minimum 2x jointers)
(A qualified artisan certified by manufacturer - completed at least 5 (five) jointing / terminations projects)

Schedule 13 must be completed in full, detail CVs appended to the schedule.

CVs for all Key Staff, with contactable references, to be submitted with tender.

Track record of Equipment:
Number of installations of similar equipment and similar scope/complexity with proven reliability commissioned in last 15 years :

Minimum = 6 Installations in SA commissioned with a service history ≥ 5 years
Or
Minimum = 16 Installations in Africa commissioned with a service history ≥ 5 years
Or
Minimum = 26 Installations Internationally commissioned & service history ≥ 5 years

Track record of Tenderer / Manufacturer:
Demonstrated Experience of Tenderer/Manufacturer
Number of projects undertaken by tenderer in last 10 years of similar scope to the tender :
Minimum = 6 projects in SA undertaken with similar scope
Or
Minimum = 26 projects Internationally undertaken with similar scope

– **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.2.1.4.6: Type Test Certificates**:

The equipment must be type tested in accordance with the Specification and Schedules. Type test certificates must be included with the tender submission.

– **C.2.1.4.7: Technical requirements and data sheets:**

In order to be evaluated for compliance the tenderer must complete Schedule 25.3: Technical Schedules. It is the responsibility of the tenderer to fully and accurately complete this schedule

1.9 Pricing Assumptions (p.84)

Clause 2 – Estimated quantities are set out in the Schedules of Rates. The final Contract Price shall be computed from the actual quantities of work done.

Clause 5 – A rate is to be entered against each item in the Schedules of Rates.
An item against which no rate (or e.g. a zero, a dash or the word “included” or abbreviations thereof) is entered, will also be regarded as to be covered by the other prices or rates in the Schedules of Quantities.
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.

Pricing Assumptions (p.85)

Clause 25 – The rate for supplying timber for trench shoring shall be a rental rate only. The rental quantity shall be for two (2x) sections only, and this quantity will be re-used for all other sections on the route, for the duration of the works.

Clause 26 – The rate for installation of trench timbering/ shoring shall include all material, labour and incidental civil excavation works to install shoring in accordance to the contactors trench layout design. The additional excavation volumes required to install the shoring over the approved/design trench width shall be priced in the installation rate.

Clause 27 – The Employer made provision in the Schedules of Quantities for the following cable lengths

a. jointing tolerances PER END;
b. cable length variances as a result of directional drilling/ thrust boring (both in height & width)
c. tolerances associated with installation of the cable (i.e. spacing of cables at road crossings and joint bays with different configuration)

Any additional cable lengths on the cable drum, including lengths required for FAT, Tail-ends (coiled around the drum core) and head of the pulling eye, which is considered not suitable for installation, shall be for the contractor’s account and shall not be added to the final measured section lengths for payment.

The contractor shall make provision in the trench excavation rate for adequately barricading to protect personnel and the general public

1.10 Questions from potential bidders:

Question 1
Is the oil cable profile available?
Response to Question 1
Not needed as the transition joint will be installed at the existing joint position