



CLUSTER

Trading Services

UNIT

Electricity

DEPARTMENT

HV Operations

PROCUREMENT DOCUMENT

GOODS / SERVICES

Documents are to be obtained, free of charge, in electronic format, from the [National Treasury's eTenders website](#) or the [eThekweni Municipality's website](#).

Tender No: 30765-5E

Title: SUPPLY, DELIVERY AND OFFLOADING OF 132 kV and 275 kV SILICON COMPOSITE INSULATORS DURING A THIRTY-SIX MONTH PERIOD

CLARIFICATION MEETING AND QUERIES

Clarification Meeting: There will be no clarification meeting

Queries can be addressed to:

General / Contractual: Nyaniso Mlilo; 031 311 9422; Mlilo.Nyaniso@durban.gov.za

Musawakhe Hlatshwayo; 031 322 1062;

Musawakhe.Hlatshwayo@durban.gov.za. Email queries to be

Technical: submitted by 31st July 2025. All questions and answers will be consolidated and posted on eTenders/SSS/Municipal website by the 07th of August 2025

DELIVERY OF TENDERS

Sealed Tenders, addressed to the City Manager and marked with the Tender Number, are to be placed in the Tender Box located in the ground floor foyer of the Municipal Buildings, 166 KE Masinga Road (Old Fort Rd), Durban (and not any other municipal department), no later than:

Closing Date: Friday, 15 August 2025

Time: 11:00am

FACSIMILE, eMAIL or POSTED TENDERS WILL NOT BE ACCEPTED

Issued by:

ETHEKWINI MUNICIPALITY

Deputy Head: HV Operations

Issued: February 2024

Document Version: 24/02/2023(b)

NAME OF TENDERER:

Tender Price: R

VAT Registered: YES / NO
(circle applicable)

PROCUREMENT DOCUMENT (Goods / Services)

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SECTION 1: GENERAL INFORMATION

YOU ARE HEREBY INVITED TO TENDER FOR REQUIREMENTS OF THE ETHEKWINI MUNICIPALITY
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TENDER No.: 30765-5E

DESCRIPTION: **SUPPLY, DELIVERY AND OFFLOADING OF 132 kV and 275 kV SILICON COMPOSITE INSULATORS DURING A THIRTY-SIX MONTH PERIOD**

CLOSING DATE / TIME: Friday, 15 August 2025 at 11:00am

All tenders must be submitted on official tender documentation issued (in electronic format) by the eThekweni Municipality from:

- the National Treasury's eTenders website (<https://www.etenders.gov.za/>), or
- the eThekweni Municipality's website (<https://www.durban.gov.za/pages/business/procurement>).

Electronically downloaded documentation should be printed by the tenderer.

Tenderers are required to be registered on the **National Treasury Central Supplier Database** (CSD) as a service provider. In the case of a Joint Venture, this requirement will apply individually to each party in the Joint Venture.

Registration on the **eThekweni Municipality's Database** can be done via website:

<https://ethekwinivendor.durban.gov.za/>

Tenderers should ensure that tenders are delivered timeously to the correct address as stated in the Conditions of Tender. If a tender is late, it will not be accepted for consideration.

The Municipality will consider a tender submitted in response to this request for tender to be an offer from your company to perform the supply on the basis of that tender. Accordingly, please review the attached General and Special Terms and Conditions which will form the basis for any supply arrangement entered into between the Municipality and your company.

The Municipality is seeking tenders from potential suppliers only and makes no representation or promise in relation to procuring work from a supplier or suppliers. The Municipality will not be responsible for any costs associated with preparing and submitting a tender.

The Municipality does not bind itself to accept the lowest or any tender. It reserves the right to accept the whole or any part of a tender to place orders. Bidders shall not bind the Municipality to any minimum quantity per order. The successful Tenderer (s) shall be bound to provide any quantities stipulated in the specification.

The successful tenderer will be required to fill in and sign a written Contract Form (MBD 7).

NB: NO TENDER WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE
(as defined in Regulation 44 of the Local Government: Municipal Supply Chain Management Regulations).

7.7**7.8 THE FOLLOWING PARTICULARS MUST BE FURNISHED****7.9 (Failure to do so may result in your tender being disqualified)**

Name of Tenderer:

Postal Address:

Street Address:

E-Mail Address:

Telephone Number:

-

-

Cell phone Number:

Facsimile Number:

Circle ApplicableIs your entity registered on the **eThekweni Municipality's supplier database?**

YES / NO

- **If YES insert** your PR Number:

PR

Is your entity registered on the **National Treasury Central Supplier Database (CSD)?**

YES / NO

- **If YES, insert** your MAAA Number:

MAAA

Insert a SARS Tax Compliance Status PIN

.....

Is your entity VAT registered?

YES / NO

- **If YES insert** Vat Registration Number:

.....

Has a **Declaration of Municipal Fees** been submitted?

YES / NO

Has a **Declaration of Interest** (MBD 4) been submitted?

YES / NO

Has a **Declaration for Procurement Above R10 Million** (MBD 5) been submitted?

YES / NO

Has a **Preference Points Claim** (MBD 6.1) been submitted?

YES / NO

Has a **Declaration of Bidder's Past SCM Practices** (MBD 8) been submitted?

YES / NO

Has a **Certificate of Independent Bid Determination** (MBD 9) been submitted?

YES / NO

Are you the accredited representative in South Africa for the goods / services / works offered? **If YES, enclose proof** at the back of the tender submission.

YES / NO

Signature of Tenderer:

Date:

Name / Surname: (in block capitals)

Capacity under which this tender is signed:

SECTION 2 : CONDITIONS OF TENDER – (Goods / Services : June 2019)

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SPECIAL / ADDITIONAL CONDITIONS OF TENDER

STANDARD CONDITIONS OF TENDER (Goods / Services)

1. DEFINITIONS

General:

- (1) Defined words / phrases are printed in *Italic font*.
- (2) Definitions apply to the singular as well as the plural.
- (3) Any reference to the masculine gender shall be taken to include the feminine and any reference to the feminine gender shall be taken to include the masculine.
- (4) The words “bid” and “tender”, and “bidder” and “tenderer” can be used interchangeably.
- (5) All definitions as defined in the ***General Conditions of Contract*** are applicable to these ***Standard Conditions of Tender***. These definitions include:
 - “Closing time”
 - “Contract”
 - “Contract Price”
 - “Corrupt practice”
 - “Countervailing duties”
 - “Country of origin”
 - “Day”
 - “Delivery”
 - “Delivery ex stock”
 - “Delivery into consignees store or to his site”
 - “Dumping”
 - “Force majeure”
 - “Fraudulent practice”
 - “GCC”
 - “Goods”
 - “Imported content”
 - “Local content”
 - “Manufacture”
 - “Order”
 - “Project site”
 - “Purchaser”
 - “Republic”
 - “SCC”
 - “Services”
 - “Supplier”
 - “Tort”
 - “Turnkey”
 - “Written” or “in writing”
- (6) **Bid or Tender:** The offer submitted in respect of an invitation to submit such an offer.
- (7) **Bidder or Tenderer:** An entity (company, close corporation, partnership, joint venture, sole proprietor) which submits a *bid/tender*.
- (8) **Municipality:** The eThekweni Municipality, as represented by the duly authorised delegate, official or committee.
- (9) **SCT:** Special Conditions of Tender (found in Section 3).
- (10) **Week:** A period of seven (7) consecutive *days*.
- (11) **Material Deviation:** A material deviation or qualification is one which, in the *Municipality’s* opinion, would:
 - (a) Detrimentially affect the scope, quality, or performance of the services or supply identified in the Scope;
 - (b) Significantly change the *Municipality’s* or the *Tenderer’s* risks and responsibilities under the contract; or
 - (c) Affect the competitive position of other *Tenderers* presenting responsive *tenders*, if it were to be rectified.

2. CONDITIONS OF TENDER & CONTRACT

The specification will be governed by the ***Standard Conditions of Tender*** (Goods and Services), ***Special Conditions of Tender (SCT)***, ***General Conditions of Contract (GCC)*** (Government Procurement General Conditions (July 2010), as amended by National Treasury Circular 52 dated 30 July 2010), the ***Special Conditions of Contract (SCC)***, the ***Occupational Health and Safety Act*** (Act No. 85 of 1993), and the ***eThekweni Code of Conduct***.

Complete Acceptance of Conditions

Unless otherwise expressly stipulated in a letter covering the *tender*, every *Tenderer* shall be deemed to have waived, renounced, and abandoned any conditions printed or written upon any stationery used for the purpose of, or in connection with, the submission of their *tender*, which are in conflict with the ***General Conditions of Contract*** and ***Special Conditions of Contract***. *Tenderers* are advised that any *material divergences / qualifications* from the official Conditions or Specification will render their *tenders* liable to disqualification.

3. TENDER INFORMATION

(1) General

- (a) *Tenders* will be liable for rejection unless made out on the official tendering documentation.
- (b) Any alterations effected upon any of the tendering documents must be clearly shown by means of a hand written (black, non-erasable ink), or typed, entry and must be signed in full by the *Tenderer*. **The use of correction fluid is not permitted.**
- (c) *Tenderers* may submit alternative solutions that, in the *Tenderer’s* opinion, are to the *Municipality’s* advantage economically and technically. Full technical details of the alternative *tender(s)* shall be submitted with the tender documents. Alternative *tender(s)* shall be submitted separately.

(2) Obtaining Tender Documentation

All tenders must be submitted on official tender documentation issued, in electronic format, by the eThekweni Municipality. Electronically downloaded documentation (obtainable free of charge) should be printed and suitably bound by tenderer.

(3) Queries Relating to this Tender

Queries can be directed to the person / Department as stated in the ***SCT***.

(4) Briefing Session (Clarification Meeting)

Details of the briefing session are stated in the ***SCT***. Failure to attend a ***compulsory*** briefing session will invalidate the *tender*. *Tenderers* must sign the attendance list in the name of the tendering entity. *Tenders* will only be evaluated from those tendering entities appearing on the attendance list.

(5) Closing Date and Delivery of Tender Submissions

Sealed *tenders* made out on the enclosed Official Tender Form, which shall be signed by or on behalf of the *Tenderer*, and addressed to the City Manager, marked with the appropriate Tender number, must be placed in the **Tender Box** as stated in the **SCT** not later than the **date and time** as stated in the **SCT**, where after they will be opened publicly.

All tender documents **must** be placed directly into the Tender Box and should not be delivered to any other Municipal Department. *Bidders* are advised that *tenders* submitted by post, fax or email **will not** be considered. All couriered documents must be placed directly into the Tender Box and should not be delivered to any other Municipal Department.

Any *tender* received after the closing date and time stated for the receipt thereof **shall not** be accepted for consideration and shall be returned to the *Tenderer*.

(6) Tender Validity and Withdrawal of Tenders

Tenders must hold good until 16:00 of the 5th week following the date on which *tenders* are opened, or during such other period as may be specified in the **SCT**. The *Municipality* may, during the period for which *tenders* are to remain open for acceptance, authorize a *Tenderer* to withdraw their *tender* in whole or in part on condition that the *Tenderer* pays to the *Municipality* on demand, a sum of one thousand Rand (R1,000.00). The *Municipality* may, if it thinks fit, waive payment of such sum in whole or in part.

4. RETURNABLE SCHEDULES, FORMS, CERTIFICATES

Each *Tenderer* shall complete fully and accurately the following documents and submit these documents with the *tender*:

- (1) **Authority of Signatory:** In terms of Clause 4(5)(c) of the Conditions of Tender.
- (2) **Tax Compliance Status PIN / Tax Clearance Certificate:** SARS has introduced a new Tax Compliance Status System. Tenderers can submit a Tax Compliance Status PIN (TCS PIN) instead of an original Tax Clearance Certificate. This TCS PIN can be used by third parties to certify the taxpayer's real-time compliance status.
- (3) **Declaration of Municipal Fees:** Only those *Bidders* whose municipal fees are fully paid, or those that have concluded acknowledgement of debt agreements with the *Municipality*, are eligible to *tender*.
All *Bidders* must sign the Declaration of Municipal Fees returnable form, declaring that their municipal fees are in order or that acknowledgement of debt agreements have been concluded, and include the relevant account numbers in the declaration. Failure to include account numbers or sign will invalidate the *tender*. The completion of the declaration is also applicable to *Bidders* outside of the eThekweni Municipal Area.
- (4) **Declaration with respect to the Occupational Health and Safety Act:** Acceptance of undertaking in terms of the Occupational Health and Safety Act (Act 85 of 1993) and the relevant Regulations.

(5) Municipal Bidding Documents (which includes):

- (a) **MBD 4: Declaration of Interest:** All *Bidders* are to sign the Declaration of Interest wherein they declare any relationship that may exist with an official of the Municipality involved in the evaluation process.
Regulation 44 of the Supply Chain Management Regulations states that a Municipality or Municipal Entity may not make any award to a person:
 - (i) Who is in the service of the state;
 - (ii) If that person is not a natural person, of which any Director, Manager, Principal, Shareholder or Stakeholder is a person in the service of the state; or
 - (iii) Who is an advisor or consultant contracted with the Municipality or municipal entity.
 Should a contract be awarded, and it is subsequently established that Regulation 44 has been breached, the Municipality shall have the right to terminate the contract with immediate effect.
- (b) **MBD 5: Declaration for Procurement Above R10 Million (if applicable):** For all procurement expected to exceed R10 million (all applicable taxes included), tenderers must complete this questionnaire.
- (c) **MBD 6.1: Preference Points Claim Form:** For the awarding of Preference Points, *Bidders* are required to complete the attached MBD 6.1 form and return it with their tender submission. Failure on the part of a tenderer to complete and submit this form will be interpreted to mean that preference points for **Specific Goals** are not claimed.
The Municipality reserves the right to require of a tenderer, either before a bid is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the Municipality.
- (d) **MBD 8: Declaration of Bidders Past Supply Chain Management Practices Form:** This form serves as a declaration to be used by municipalities and municipal entities in ensuring that when goods and services are being procured, all reasonable steps are taken to combat the abuse of the supply chain management system.
- (e) **MBD 9: Certificate of Independent Bid Determination:** Section 4(1)(b)(iii) of the Competition Act No. 89 of 1998, as amended, prohibits an agreement between, or concerted practice by, firms if it involves collusive tendering or tender rigging. In order to give effect to this, the Certificate of Bid Determination must be completed and submitted with the tender.

(5) **Official Tender Form** (see Section 9)**(a) Legal Status of Tenderer**

It is essential for the purpose of entering into a legal contract that *Bidders* state on the Official Tender Form, under "Name and Address of Tenderer ", their full legal status:

- (i) the full registered name of the company making a *tender*; or
- (ii) if the *Tenderer* is a person conducting business under a recognised trading name then:
 - State the name of the person(s);
 - State recognised trading name; and
 - State whether an owner, co-owner, proprietor, etc.

(b) Signing of Official Tender Form

Failure of a *Tenderer* to complete, in its entirety, and sign the Official Tender Form will invalidate the *tender*.

(c) Authority of Signatory

Bidders are to complete and sign the Authority of Signatory returnable document, and attach the required additional documents.

(d) Differences or Discrepancies

Should there be any difference or discrepancy between the prices or price contained in the Official Tender Form and those contained in any covering letter from the *Tenderer*, the prices or price contained in the Official Tender Form shall prevail.

(6) **Any additional Schedules, Forms, or Certificates as stated in the SCT.**5. **INFORMATION TO BE SUPPLIED REGARDING SUB-CONTRACTORS**

Bidders are to state in their *tenders*, or covering letters, whether, if the contract were to be awarded to them, the whole of the work would be executed by them in their own workshop / factory. If the answer is in the negative, they are required to state which part(s) would be handed to sub-contractors and the name and address of such sub-contractors.

6. **SAMPLES**

Bidders may be required to state where samples of the full range of products can be inspected or be required to submit samples for inspection prior to the closing date of the *tender*.

7. **MANUFACTURERS**

The names of the manufacturers of the goods or equipment offered must be stated in the *tender*.

Bidders who are not manufacturers, accredited distributors, or agents must provide a valid agreement / Joint Venture Agreement, entered into with the manufacturer, accredited distributors, or agents, with their submission. This agreement must meet all the requirements as laid down in the *tender* document, and must cover the contract period.

8. **CLARIFICATION**

The Head: Supply Chain Management Unit, or an authorized representative, may request clarification or further information on any aspect of the *tender*. The *Tenderer must* supply the requested information within the time specified. Failure to comply will render the *tender* non-responsive.

9. **PRICING**

Bidders would be precluded from this *tender* if their pricing structure deviates from the Official Tender Form.

(1) **Nett Prices**

All prices shall be quoted in South African currency (Rand) after deduction of any brokerage or discount allowed to the Municipality.

(2) **Unit Prices**

Bidders shall quote only one price in respect of each item. Such price is to hold good for the full duration of the contract period, being subject to variation only in accordance with specified criteria, as stated in the ***Conditions of Contract***.

(3) **Firm Tenders**

Bidders may submit firm prices for each 12 month period. These prices shall be free from all fluctuations, including any statutory increases.

(4) **Value Added Tax (V.A.T)**

Prices exclusive and inclusive of VAT must be stated separately on the Official Tender Form.

10. **ESTIMATED QUANTITIES**

The estimated quantities are set out in Section 8 : Bill of Quantities / Schedule of Rates/Activities which forms part of the official tender documents. The quantities are stated purely for the information of the *Bidders* and are in order to ascertain an estimated total contract price. The *Supplier* will, however, be bound to supply whatever quantity or quantities the *Municipality* may actually require, and may exceed, or be less than, the estimated quantities stated.

11. **DELIVERY, RISK, PACKAGES, ETC**

- (1) Unless otherwise provided, all goods are to be supplied only against the form of order issued by the *Municipality*.
- (2) *Bidders* shall quote a unit price which shall include delivery to the specified delivery point, as stated in the ***SCT***.
- (3) The risk in all goods purchased by the *Municipality* under the contract shall remain with the *Supplier* until such goods shall have been duly delivered.
- (4) *Bidders* shall clearly state the period within which delivery will be made after receipt of the official order, as this may be material in the adjudication of the *tender*.

12. RATES OF EXCHANGE

- (1) Where the goods are imported the *Supplier* shall, within seven days of date of official Purchase Order, arrange through their bankers for the foreign commitment to be covered forward down to the Rand in order to fix the rate of exchange. The *Supplier* shall notify the *Municipality* as soon as possible thereafter regarding the rate which has been fixed on such forward exchange.

Any increase or decrease between the basic rate of exchange as at a date seven days prior to the date of closing of *tenders* and that existing at the date of establishment of the forward exchange cover within the period stipulated above shall be paid or deducted by the Municipality. Upon the failure of the *Supplier* to arrange forward exchange cover, the *Supplier* shall be liable should there be any increase in the basic rate of exchange occurring after the last mentioned date.

The bank charges incurred in obtaining the forward exchange cover shall be for the *Municipality's* account.

- (2) The *Supplier* shall on request:
- Submit documentary proof of the rate of exchange; and
 - When an adjustment is claimed in terms of this sub-clause, whether by the *Supplier* or the *Municipality*, submit documentary proof to the satisfaction of the Deputy City Manager: Treasury in respect of such claim.

13. IMPORT PERMITS

- (1) In order to minimise special importation, *Bidders* should, where possible, have recourse to local suppliers and / or manufacturers.
- (2) *Bidders* must state whether their *tender* is dependent upon the issue of a special import permit or whether they are able to supply the goods by making use of the import facilities available to them.
- (3) In the event of a tender being dependent upon the issue of a special import permit, application for such special import permit shall be made by the Tenderer, unless otherwise provided for in the *SCT*.

14. EVALUATION PROCESS

The procedure for evaluation of responsive Tender Offers will be in accordance with the eThekweni Municipality's current SCM Policy and the Preferential Procurement Policy Framework Act (5 of 2000), and the Preferential Procurement Policy Framework Act Regulations (November 2022).

Details of additional evaluation criteria, if applicable, are stated in the *SCT*.

Evaluation points for price and preference will only be calculated for *Bidders* who comply with the contractual and technical specification, and if applicable, have attained the minimum Functionality Score as stated in the *SCT*.

The evaluation process of responsive *tenders* will be as follows:

- Score each *tender* in respect of the financial offer made and preferences claimed (if any);
- Calculate the total number of evaluation points (T_{EV}) in accordance with the following formula:
 $T_{EV} = N_{FO} + N_P$ where: N_{FO} : is the number of evaluation points awarded for the financial offer; and N_P : is the number of evaluation points awarded for preferences claimed.
- Rank *tenders* from the highest number of evaluation points to the lowest.
- Recommend the *Tenderer* with the highest number of evaluation points for the award of the contract, unless there are compelling and justifiable reasons not to do so.
- Rescore and re-rank all *Bidders* should there be compelling and justifiable reasons not to recommend the *Tenderer* with the highest number of evaluation points, and recommend the *Tenderer* with the highest number of evaluation points, unless there are compelling and justifiable reasons not to do so, and the process set out in this sub-clause is repeated.

(1) Evaluation points awarded for the financial offer:

Reference is to be made to the Special Conditions of Tender (*SCT*), and returnable form 5(c) in Section 4.

INCOME-GENERATING CONTRACTS

The financial offer will be scored using the formula:

$$N_{FO} = W \left(1 + \frac{P_t - P_{max}}{P_{max}} \right)$$

GOODS and SERVICES

The financial offer will be scored using the formula:

$$N_{FO} = W \left(1 - \frac{P_t - P_{min}}{P_{min}} \right)$$

Where the value of W is:

- (a) **90** where the financial value inclusive of VAT of all responsive *tenders* received have a value in excess of R 50,000,000; OR
- 80** where the financial value inclusive of VAT of one or more responsive *tenders* offers have a value that equals or is less than R 50,000,000.
- It is unclear** (at the time of advertising) which of the two preference point systems applies. Either the 80/20 or 90/10 preference point system will apply, determined by the price offered by the lowest acceptable tender.

(b) **P_{max}** is the comparative offer of the most favourable comparative offer (highest acceptable tender).

(c) **P_{min}** is the comparative offer of the most favourable comparative offer (lowest acceptable tender).

(d) **P_t** is the comparative offer of the *tender* offer under consideration.

(2) Evaluation points awarded for preference:

The **Specific Goals** for Preference Points are specified in the *SCT*.

15. BRIBERY AND COMMUNICATION WITH COUNCILLORS / OFFICIALS**(1) Bribery**

No *Tenderer* shall offer, promise or give to any person or person connected with a *tender* or the awarding of a contract, any gratuity, bonus or discount etc, in connection with the obtaining of a contract.

(2) Communication, Councillors and Officials

A *Tenderer* shall not in any way communicate with a member of the *Municipality* or with any official of the *Municipality* on a question affecting any contract for the supply of goods or for any work, undertaking or services which is the subject of a *tender* during the period between the closing date for receipt of *tenders* and the dispatch of the written notification of the *Municipality's* decision on the award of the contract; provided that a *Tenderer* shall not hereby be precluded:

- (a) At the request of the Head: SCM Unit, or an authorized representative, from furnishing him with additional information or with a sample or specimen for testing purposes or otherwise from giving a demonstration so as to enable the recommendation to the Bid Committee on the award of the contract to be formulated;
- (b) From obtaining from the Head : SCM Unit, or an authorised representative, information as to the date upon which the award of the contract is likely to be made, or, after the decision upon the award has been made by the *Municipality* or any Committee to which the *Municipality* has delegated its powers, information as to the nature of the decision or such information as was publicly disclosed at the opening of *tenders* or from submitting to the Accounting Officer in writing any communication relating to their *tender* or the award of the contract or a request for leave to withdraw their *tender*; and
- (c) Provided further that nothing contained herein shall be construed so as to prevent information being sought and obtained from an Official in regard to any decision taken at an open Municipal meeting, or any Committee to which the *Municipality* has delegated its powers.

A contravention of subsection (1) and / or (2), or an attempt to contravene such subsection, shall be reported to the Accounting Officer, who may on receipt of such report disqualify the *tender* of the *Tenderer* concerned.

16. NEGOTIATIONS WITH PREFERRED BIDDERS

The *Municipality* reserves the right to invoke Regulation 24 of Municipal Finance Management Act if required.

- (1) The Accounting Officer may negotiate the final terms of a contract with *Bidders* identified through a competitive tendering process as preferred *Bidders*, provided that such negotiation:
 - Does not allow any preferred *Tenderer* a second or unfair opportunity;
 - Is not to the detriment of any other *Tenderer* ; and
 - Does not lead to a higher price than the *tender* as submitted.
- (2) Minutes of such negotiations must be kept for record purposes.
- (3) Such negotiation may be delegated by the Accounting Officer.

17. CANCELLATION OF TENDER PROCESS

The municipality is entitled to cancel the tender at any time before the award of a tender and the decision to cancel the tender shall be published in the same manner in which the original tender invitation was advertised. The Municipality shall, in no way, be liable for any damages whatsoever, including, without limitation, damages for loss of profit, in any way connected with the cancellation of this bid.

18. ACCEPTANCE OF BID

- (1) The *Municipality* does not bind itself to accept the lowest or any *tender*, and reserves the right to accept the whole or any part of a *tender* to place orders.
- (2) The *Municipality* reserves the right to accept more than one technically and contractually compliant *tender* for part or the whole of the contract and to place orders on the price and availability.
- (3) *Bidders* shall not bind the *Municipality* to any minimum quantity per order.
- (4) The successful *Tenderer* (s) shall be bound to provide any quantities stipulated in the specification.
- (5) Tenders will only be accepted on condition that:
 - (a) The *tender* is signed by a person authorised to sign on behalf of the *Tenderer* .
 - (b) A valid (at time of close of tenders), original, Tax Clearance Certificate OR Tax Compliance Status PIN is included with the *tender* submission. Both should have sufficient validity to ensure the process is adequately covered;
 - (c) A *Tenderer* who submitted their *tender* as a Joint Venture has included an acceptable Joint Venture Agreement and a B-BBEE Certificate pertaining to the Joint Venture with their *tender*.
- (6) Financial Standing: The Head: Supply Chain Management reserves the right to require *Bidders* to submit evidence that their financial standing is adequate to meet their obligations under the contract should they be successful.
- (7) Change of Ownership or Major Policy: Where it is known to a *Tenderer* that a change in ownership or major policy (of the tendering entity) will occur, or is likely to occur, during a specified contract period, the scope and effect thereof must be fully defined in a covering letter to be submitted with the *tender*.
- (8) Purchase of Goods From Other Sources: Nothing contained in this contract shall be held to restrain the *Municipality* from purchasing from persons other than the *Supplier*, any of the goods described or referred to in this contract, if it shall in its discretion think fit to do so.
- (9) Capability and Breach of Contract: Tenderers that do not have the capability of undertaking this enquiry in terms of the requirements of the contract or have been in breach of contract previously will not be considered.

19. PAYMENT and FACTORING

Payment conditions will be as per the **Conditions of Contract**.

Payment will be made only to the *Supplier(s)*. Factoring arrangements will not be accepted.

20. APPEALS

In terms of Regulation 49 of the Municipal Supply Chain Management Regulations persons aggrieved by decisions or actions taken by the *Municipality*, may lodge an appeal within 14 days of the decision or action, in writing to the *Municipality*. The appeal (clearly setting out the reasons for the appeal) and queries with regard to decision of award are to be directed to the office of the City Manager, attention:

Ms. S. Pillay, P.O. Box 1394, Durban, 4000;
eMail: Simone.Pillay@durban.gov.za.

SECTION 3: SPECIAL / ADDITIONAL CONDITIONS OF TENDER

3.1 SPECIAL CONDITIONS OF TENDER (SCT)

The **Standard Conditions of Tender** (Goods / Services) make several references to the **Special Conditions of Tender** (SCT) for details that apply specifically to this tender. The **Special Conditions of Tender** shall have precedence in the interpretation of any ambiguity or inconsistency between it and the **Standard Conditions of Tender**.

Each item below is cross-referenced to the clause in the **Standard Conditions of Tender** to which it mainly applies.

SCT 3(1) TENDER INFORMATION: General

The tender document comprises of a cover page and 68 pages.

SCT 3(2) TENDER INFORMATION: Obtaining Tender Documentation

Documents are issued by the eThekweni Municipality electronic format.

Electronically downloaded documentation is obtainable from:

- the National Treasury's eTenders website
 - (<https://www.etenders.gov.za/>), or
- the eThekweni Municipality's website
 - (<https://www.durban.gov.za/pages/business/procurement>).

The entire document should be printed on A4 paper (one sided), and suitably bound by the tenderer.

SCT 3(3) TENDER INFORMATION: Queries Relating to this Tender

General and Contractual Queries are to be directed to:

Nyaniso Mliilo; 031 311 9422; Mliilo.Nyaniso@durban.gov.za

Technical Queries are to be directed to:

Musawakhe Hlatshwayo; 031 322 1062; Musawakhe.Hlatshwayo@durban.gov.za

SCT 3(4) TENDER INFORMATION: Briefing Session

There will be no clarification meeting

SCT 3(5) TENDER INFORMATION: Closing Date and Delivery of Tender Submissions

Sealed Tenders, addressed to the City Manager and marked with the Tender Number, are to be placed in the Tender Box **located in the ground floor foyer of the Municipal Buildings, 166 KE Masinga Road (Old Fort Rd), Durban** (and not any other municipal department), no later than: **Friday, 15 August 2025 at 11:00am**.

Bidders are required to also make an electronic submission via SSS. Bidders must ensure that the hard copy and electronic submission are the same, failing which the submission will be deemed invalid. Bidders are responsible for resolving all access rights and submission queries before the tender closing date.

SSS Queries Contact: Lindo Dlamini: Tel: 031-3227133/031-3227153 email: supplier.selfservice@durban.gov.za

SCT 3(6) TENDER INFORMATION: Tender Validity and Withdrawal of Tenders

Tenders must hold good for 120 days following the date on which tenders are opened.

SCT 4(6) RETURNABLE SCHEDULES, FORMS, CERTIFICATES

The additional returnable schedules, forms, which can be found in Section 10, are:

1. Technical Schedules for Materials.
2. Health, Safety and Environmental.
3. Delivery Periods.

SCT 11(2) DELIVERY, RISK, PACKAGES, ETC

The specified delivery and off-loading point is **eThekwin Electricity, Main Store**, 11 Electron Road, (off Umgeni Road), Springfield, Durban.

SCT 13 IMPORT PERMITS

In the event of a tender being dependent upon the issue of a special import permit, application for such special import permit shall be made by the bidder.

SCT 14 EVALUATION PROCESS

14.1 Price and Preference

The procedure for the evaluation of responsive tenders is **PRICE AND PREFERENCE** in accordance with the Employer's current SCM Policy, the Preferential Procurement Policy Framework Act (5 of 2000), and the Preferential Procurement Policy Framework Act Regulations (2022).

The **80/20** preference points system will be applied. The Formula used to calculate the **Price Points (max. 80)** will be according to that specified Regulation 4.1.

14.2 Preference Point System and Specific Goals

The definitions as per the SCM Policy are applicable.

Preference Points (20) will be derived from points claimed on Returnable Document **MBD 6.1: “Preference Points Claim Form”** (in Section 4 of this procurement document) for the **Specific Goal(s)** as indicated on the table(s) below, and according to the specified **Goal Weightings**.

Ownership Goal

The tendering entity's **Percentage Ownership**, in terms of the **Ownership Category(s)** listed below, is to be used in the determination of the tenderer's claim for **Preference Points**.

Goal Weighting 30%			
Ownership Categories	Criteria	80/20	90/10
Race: Black (w1)	0%	0	n/a
	>0% and <51%	1	n/a
	≥51% and <100%	2	n/a
	100%	3	n/a
Gender: Female (w2)	0%	0	n/a
	>0% and <51%	0.5	n/a
	≥51% and <100%	1	n/a
	100%	1.5	n/a
Disabilities (w3)	0%	0	n/a
	>0% and <51%	0.5	n/a
	≥51% and <100%	1	n/a
	100%	1.5	n/a
Proof of claim as declared on MBD 6.1 (1 or more of the following will be used in verifying the tenderer's status) <ul style="list-style-type: none"> Companies and Intellectual Property Commission registration document (CIPC) CSD report. B-BBEE Certificate of the tendering entity. Consolidated B-BBEE Certificate if the tendering entity is a Consortium, Joint Venture, or Trust (Issued by verification agency accredited by the South African Accreditation System). Agreement for a Consortium, Joint Venture, or Trust. 			
The Category Weightings of the Ownership Categories will be: w1 = 50%, w2=25%, w3=25% (where: w1 + w2 + w3 = 100%)			

RDP Goal: The promotion of South African owned enterprises

The tendering entity's **Address** (as stated on the National Treasury Central Supplier Database (CSD) or on the eThekweni Municipality Vendor Portal) is to be used in the determination of the tenderer's claim for **Preference Points** for this Specific Goal.

Goal Weighting 30%		
Location	80/20	90/10
Not in South Africa	0	n/a
South Africa	2	n/a
KZN	4	n/a
ETM	6	n/a
Proof of claim as declared on MBD 6.1 (1 or more of the following will be used in verifying the tenderer's status) <ul style="list-style-type: none"> CSD report 		

RDP Goal: The promotion of export-oriented production to create jobs

The tendering entity's **Business Type**, in terms of the categories below, is to be used in the determination of the tenderer's claim for **Preference Points** for this Specific Goal.

Goal Weighting 30%		
Local content and production	80/20	90/10
Retailer	2	n/a
Distributor	3	n/a
Wholesaler	4	n/a
Manufacturer	6	n/a
Proof of claim as declared on MBD 6.1 (1 or more of the following will be used in verifying the tenderer's status) <ul style="list-style-type: none"> SABS/ SANAS certification 		

RDP Goal: Social Upliftment of communities

The tendering entity's **Involvement in Corporate Social Investment initiatives**, in terms of the categories below, is to be used in the determination of the tenderer's claim for **Preference Points** for this Specific Goal.

Goal Weighting 10%		
Corporate Social Investment	80/20	90/10
Clean-up campaigns	0.25	n/a
Social upliftment programmes	0.25	n/a
Bursaries	0.25	n/a
Infrastructure repairs and maintenance	0.25	n/a
Maximum Goal Points	2	n/a
Proof of claim as declared on MBD 6.1 (1 or more of the following will be used in verifying the tenderer's status) <ul style="list-style-type: none"> List and value of projects identified through the local councillor/chief in a letter form (as a percentage of the tendered value) 		

- 14.3 For evaluation, **SECTION 8: BILL OF QUANTITIES** items are separated into three categories as follows:
- Category 1** – Items 1 and 2 for 132 kV application.
 - Category 2** – Items 3 and 4 for 275 kV application.
 - Category 3** – Items 5 and 6 for OPGW and Earthwire application.
- 14.4 Each **category** of 14.3 will be evaluated separately. The evaluation will be based upon the following:
- The bidder's compliance to the technical specification detailed in **Section 7** and in **Section 10**.
 - The total price per **14.3 Category** over three (3) years; and
 - The 80/20 procurement point system. Each Bidder must submit a certified copy of a BEE verification certificate if preferential points are to be claimed.
- 14.5 Failure to meet the requirements specified in the technical schedules and Section 7 will result in the tender being deemed unresponsive.
- 14.6 Each **14.3 Category** will be evaluated independently, based on the technical schedules in Section 10 or the **Qualified Product List (QPL)**.
- 14.7 Technical data for materials offered from the **QPL** are not required to be filled in the Technical Returnable Schedules in **Section 10, number 10.1.4**. In this instance, that part of the Returnable Schedule for the specific item/s shall be struck off and stated as "As per QPL", signed and submitted with the bid.

- 14.8 Technical data for materials offered from the QPL are not required to be submitted. In this instance, that part of the Returnable Schedule for the specific item/s shall be struck off and stated as "As per QPL". Nevertheless, the schedule shall be signed and submitted with the bid.
- 14.9 Tenderers may opt to tender for items in one **14.3 Category** or more.
- 14.10 Bidders shall complete all returnable schedules, failure to do so will result in disqualification.
- 14.11 Each Bidder shall submit samples of the items offered within one week of request by eThekweni Electricity. These samples shall be delivered to eThekweni Electricity, HV Lines, Building 11, 11 Electron Road, Springfield, marked for attention of Musawakhe Hlatshwayo (Engineer: HV Lines). Failure to comply with this requirement will result in a disqualification.
- 14.12 Each sample shall be fully labelled with information such as Contract/Enquiry number, item number and description as per **SECTION 8**, name of bidding company and relevant date.
- 14.13 Evaluation process will involve the follow stages: Stage 1 paper evaluation based on the tender document. Stage 2 evaluation of samples against technical requirements. Only Bidders that pass the first stage maybe requested to submit samples. Samples that don't comply with the requirements will be disqualified. BEE procurement points will only be applied to responsive Bidders. Bidder with the highest BEE procurement points will be recommended for award.

3.2 ADDITIONAL CONDITIONS OF TENDER (ACT)

ACT 1 ELIGIBILITY – CSD REGISTRATION

Tenderers are required to be registered on the National Treasury Central Supplier Database (CSD) as a service provider. In the case of a Joint Venture, this requirement will apply individually to each party in the Joint Venture. Tenderers not so registered, at time of closing of tenders, will not be eligible to submit tenders.

The Tenderer's CSD Supplier Number (starting with "MAAA") is to be provided on the information table in Section 1.

Tenderers who wish to register on the CSD may do so via web address <https://secure.csd.gov.za>.

ACT 3 EThekwini Municipality reserves the right to accept and award more than one technically and contractually compliant bid for part or the whole of the contract and to place orders on the basis of price and availability.

ACT 4 Bidders shall not bind eThekwini Municipality to any minimum quantity per order.

ACT 5 Bidders shall give full technical and descriptive details as outlined under **SECTION 7** and **Technical Schedules** and submit all literature and drawings for the items offered for evaluation. Failure to supply full information may render the bid liable to disqualification.

ACT 6 Each Bidder shall submit samples of the items offered within one week of request by eThekwini Electricity. These samples shall be delivered to eThekwini Electricity, HV Lines, Building 11, 11 Electron Road, Springfield marked for attention of Musawakhe Hlatshwayo (Engineer: HV Lines).

ACT 7 Each sample shall be fully labelled with information such as Contract/Enquiry number, item number and description as per **SECTION 8**, name of bidding company and relevant date.

SECTION 4: RETURNABLE TENDER DOCUMENTS

The required returnable documents are as detailed in [Section 2 \(Clause 4\)](#): “Returnable Schedules, Forms, Certificates” of the Conditions of Tender / Special Conditions of Tender.

- 1) Authority of Signatory
- 2) Tax Compliance Status PIN / Tax Clearance Certificate
- 3) Declaration of Municipal Fees
- 4) Declaration with respect to The Occupational Health and Safety Act
- 5(a) MBD 4: Declaration of Interest
- 5(b) MBD 5: Declaration for Procurement Above R10 Million
- 5(c) MBD 6.1: Preference Points Claim
- 5(d) MBD 8: Declaration of Bidder's Past Supply Chain Management Practices
- 5(e) MBD 9: Certificate of Independent Bid Determination

The Tender Form can be found in [Section 9](#): “Official Tender Form”, and any additional schedules, forms, certificates can be found in [Section 10](#): “Annexures”.

1) AUTHORITY OF SIGNATORY

Reference is made to the Conditions of Tender: [Clause 4\(5\)\(c\)](#).

Indicate the status of the tenderer by ticking the appropriate box hereunder.

COMPANY		CLOSE CORPORATION		PARTNERSHIP		JOINT VENTURE		SOLE PROPRIETOR	
Refer to Notes at the bottom of the page									

I / We, the undersigned, being the Chairperson (Company), Member(s) (Close Corporation), Partners (Partnership), Sole Owner (Sole Proprietor), Lead Partner (JV), in the company / business trading as:

.....

hereby authorise Mr/Mrs/Ms

acting in the capacity of

to sign all documents in connection with the tender for Contract No. [30765-5E](#) and any contract resulting from it on our behalf.

NAME	ADDRESS	SIGNATURE	DATE

Notes

Tenderers are to include, at the back of their tender submission document, a printout of the following documents:

If a Company : a "Resolution of the Board" in this regard.

If a Joint Venture : a "Power of Attorney" signed by the legally authorised signatories of all the partners to the Joint venture.

2) TAX COMPLIANCE STATUS PIN / TAX CLEARANCE CERTIFICATE

SARS has introduced a new Tax Compliance Status System. Tenderers can submit a Tax Compliance Status PIN (TCS PIN) instead of an original Tax Clearance Certificate. This TCS PIN can be used by third parties to certify the taxpayer's real-time compliance status.

Separate Tax Clearance Certificates / TCS PINs are required for each entity in a Joint Venture.

The TCS PIN(s) are to be entered on the information table in **SECTION 1: GENERAL INFORMATION**.

Tenderers are to include, at the back of their tender submission document, a printout of their Tax Compliance Status PIN (TCS PIN) OR an original Tax Clearance Certificate.

Failure to include the required document will make the tender submission non-responsive.

*I, the undersigned, who warrants that they are authorised to sign on behalf of the Tenderer, confirms that the information contained in this form is within my personal knowledge and is to the best of my belief both true and correct, **and that the requested documentation has been included in the tender submission.***

NAME (Block Capitals):

Date

SIGNATURE:

3) DECLARATION OF MUNICIPAL FEES

I, the undersigned, do hereby declare that the Municipal fees of

.....
(full name of Company / Close Corporation / partnership / sole proprietary/Joint Venture)

(hereinafter referred to as the TENDERER) are, as at the date hereunder, fully paid or an Acknowledgement of Debt has been concluded with the Municipality to pay the said charges in instalments.

The following account details relate to property of the said TENDERER:

Account

Account Number: to be completed by tenderer.

Consolidated Account No.

--	--	--	--	--	--	--	--	--	--	--	--	--

Electricity

--	--	--	--	--	--	--	--	--	--	--	--	--

Water

--	--	--	--	--	--	--	--	--	--	--	--	--

Rates

--	--	--	--	--	--	--	--	--	--	--	--	--

Other

--	--	--	--	--	--	--	--	--	--	--	--	--

I acknowledge that should the aforesaid Municipal charges fall into arrears, the Municipality may take such remedial action as is required, including termination of any contract, and any payments due to the Contractor by the Municipality shall be first set off against such arrears.

- Where the TENDERER'S place of business or business interests are outside the jurisdiction of eThekweni Municipality, a copy of the accounts/agreements from the relevant municipality must be attached (to the back inside cover of this document).
- Where the tenderer's Municipal Accounts are part of their lease agreement, then a copy of the agreement, or official letter to that effect is to be attached (to the back inside cover of this document).

Tenderers are to be include, at the back of their tender submission document, a printout of the above account's and or agreements signed with the municipality.

Failure to include the required document will make the tender submission non-responsive.

NAME (Block Capitals):

Date

SIGNATURE:

.....

.....

4) DECLARATION WITH RESPECT TO THE OCCUPATIONAL HEALTH AND SAFETY ACT**Definitions**

The Act: The Occupational Health and Safety Act No 85 of 1993 (as amended by the Occupational Health and Safety Amendment Act No 181 of 1993), and any associated / applicable Regulations.

Declaration by Tenderer

1. I, the undersigned, hereby declare and confirm that I am fully conversant with the Act.
2. I hereby declare that my company has the competence and the necessary resources to safely carry out the work / supply / services under this contract in compliance with the Act, and the Employer's / Purchaser's / Client's Health and Safety Specifications.
3. I hereby undertake, if my tender is accepted, to provide on request a suitable and sufficiently documented Health and Safety Plan which plan shall be subject to approval by the Employer / Purchaser / Client.
4. I hereby confirm that adequate provision has been made in my tendered rates to cover the cost of all resources, actions, training and all health and safety measures envisaged in the Act, and that I will be liable for any penalties that may be applied by the Employer / Purchaser / Client for failure to comply with the provisions of the Act.
5. I agree that my failure to complete and execute this declaration to the satisfaction of the Employer / Purchaser / Client will mean that I am unable to comply with the requirements of the Act and accept that my tender will be prejudiced and may be rejected at the discretion of the Employer / Purchaser / Client.

NAME (Block Capitals):**Date****SIGNATURE:**

5(a) MBD 4: DECLARATION OF INTEREST**NOTES**

MSCM Regulations: “in the service of the state” means to be:

- (a) a member of:
 - (i) any municipal council.
 - (ii) any provincial legislature.
 - (iii) the national Assembly or the national Council of provinces.
- (b) a member of the board of directors of any municipal enterprise.
- (c) an official of any municipality or municipal enterprise.
- (d) an employee of any national or provincial department, national or provincial public enterprise or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act No.1 of 1999).
- (e) a member of the accounting authority of any national or provincial public enterprise.
- (f) an employee of Parliament or a provincial legislature.

“Shareholder” means a person who owns shares in the company and is actively involved in the management of the company or business and exercises control over the company.

- 1 No bid will be accepted from persons **in the service of the state**.
- 2 Any person, having a kinship with persons **in the service of the state**, including a blood relationship, may make an offer or offers in terms of this invitation to bid. In view of possible allegations of favouritism, should the resulting bid, or part thereof, be awarded to persons connected with or related to **persons in service of the state**, it is required that the bidder or their authorised representative declare their position in relation to the evaluating/adjudicating authority and/or take an oath declaring his/her interest.
- 3 In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.

3.1 Name of enterprise

Name of enterprise’s representative

3.2 ID Number of enterprise’s representative

3.3 Position enterprise’s representative occupies in the enterprise

3.4 Company Registration number

3.5 Tax Reference number

3.6 VAT registration number

3.7 The names of all directors / trustees / shareholders / members / sole proprietors / partners in partnerships, their individual identity numbers and state employee numbers must be indicated in paragraph 4 below. In the case of a joint venture, information in respect of each partnering enterprise must be completed and submitted.

Circle Applicable

3.8 Are you presently in the service of the state?

YES

NO

If yes, furnish particulars:

.....

.....

3.9 Have you been in the service of the state for the past twelve months?

YES

NO

If yes, furnish particulars:

.....

.....

3.10 Do you have any relationship (family, friend, other) with persons in the service of the state and who may be involved with the evaluation and or adjudication of this bid?

YES

NO

If yes, furnish particulars:

.....

.....

3.11 Are you, aware of any relationship (family, friend, other) between any other bidder and any persons in the service of the state who may be involved with the evaluation and or adjudication of this bid?

YES

NO

If yes, furnish particulars:

.....

.....

3.12 Are any of the company's directors, trustees, managers, principle shareholders or stakeholders in service of the state?

YES

NO

If yes, furnish particulars:

.....

.....

3.13 Are any spouse, child or parent of the company's directors, trustees, managers, principle shareholders or stakeholders in service of the state?

YES

NO

If yes, furnish particulars:

.....

.....

3.14 Do you or any of the directors, trustees, managers, principle shareholders, or stakeholders of this company have any interest in any other related companies or business whether or not they are bidding for this contract?

YES

NO

If yes, furnish particulars:

.....

.....

- 4 The names of all directors / trustees / shareholders / members / sole proprietors / partners in partnerships, their individual identity numbers and state employee numbers must be indicated below. In the case of a joint venture, information in respect of each partnering enterprise must be completed and submitted

Full Name	Identity No.	State Employee No.	Personal income tax No.
Use additional pages if necessary			

I, the undersigned, who warrants that they are authorised to sign on behalf of the Tenderer, confirms that the information contained in this form is within my personal knowledge and is to the best of my belief both true and correct.

NAME (Block Capitals):

Date

SIGNATURE:

5(b) **MBD 5: DECLARATION FOR PROCUREMENT ABOVE R10 MILLION**
(ALL APPLICABLE TAXES INCLUDED)

For all procurement expected to exceed R10 million (all applicable taxes included), bidders must complete the following questionnaire.

		Circle Applicable	
		YES	NO
1.0	Are you by law required to prepare annual financial statements for auditing?		
1.1	If YES, submit audited annual financial statements for the past three years or since the date of establishment if established during the past three years.		
2.0	Do you have any outstanding undisputed commitments for municipal services towards any municipality for more than three months or any other service provider in respect of which payment is overdue for more than 30 days?	YES	NO
2.1	If NO, this serves to certify that the bidder has no undisputed commitments for municipal services towards any municipality for more than three months or other service provider in respect of which payment is overdue for more than 30 days.		
2.2	If YES, provide particulars.		
3.0	Has any contract been awarded to you by an organ of state during the past five years, including particulars of any material non-compliance or dispute concerning the execution of such contract?	YES	NO
3.1	If YES, provide particulars.		
4.0	Will any portion of goods or services be sourced from outside the Republic, and, if so, what portion and whether any portion of payment from the municipality / municipal entity is expected to be transferred out of the Republic?	YES	NO
4.1	If YES, provide particulars.		

If required by 1.1 above, tenderers are to include, at the back of their tender submission document, a printout of their audited annual financial statements.

I, the undersigned, who warrants that they are authorised to sign on behalf of the Tenderer, confirms that the information contained in this form is within my personal knowledge and is to the best of my belief both true and correct, and, if required, that the requested documentation has been included in the tender submission.

NAME (Block Capitals):

Date

SIGNATURE:

5(c) MBD 6.1: PREFERENCE POINTS CLAIM
In terms of THE PREFERENTIAL PROCUREMENT REGULATIONS (2022)

This preference form must form part of all tenders invited. It contains general information and serves as a claim form for preference points for specific goals.

NB: BEFORE COMPLETING THIS FORM, TENDERERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF THE TENDER AND PREFERENTIAL PROCUREMENT REGULATIONS, 2022

1.0 GENERAL CONDITIONS

1.1 The following preference point systems are applicable to invitations to tender:

- the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included).
- the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).

1.2 The applicable preference point system for this tender is the **80/20 preference point system**.

1.3 Preference Points for this tender shall be awarded for:

- **Price** and **Specific Goals**: Either 80 or 90 (price) and 20 or 10 (specific goals), in terms of 1.2 above.
- The total Preference Points, for Price and Specific Goals, is 100.

1.4 Failure on the part of the tenderer to submit the required proof or documentation, in terms of the requirements in the (Special) Conditions of Tender for claiming **Specific Goal** preference points, will be interpreted that preference points for **Specific Goals** are not claimed.

1.5 The Municipality reserves the right to require of a tenderer, either before a tender is adjudicated or at any time subsequently, to substantiate any claim in regard of preferences, in any manner required by the Municipality.

2.0 DEFINITIONS

2.1 “**tender**” means a written offer in the form determined by an organ of state in response to an invitation to provide goods or services through price quotations, competitive tendering process or any other method envisaged in legislation.

2.2 “**price**” means an amount of money tendered for goods or services and includes all applicable taxes less all unconditional discounts.

2.3 “**rand value**” means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes.

2.4 “**tender for income-generating contracts**” means a written offer in the form determined by Municipality in response to an invitation for the origination of income-generating contracts through any method envisaged in legislation that will result in a legal agreement between the Municipality and a third party that produces revenue for the Municipality, and includes, but is not limited to, leasing and disposal of assets and concession contracts, excluding direct sales and disposal of assets through public auctions.

2.5 “**the Act**” means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000).

3.0 FORMULA FOR CALCULATION OF PREFERENCE PRICE POINTS

3.1 PROCUREMENT OF GOODS AND SERVICES

PRICE POINTS: A maximum of 80 points is allocated for price on the following basis:

80 / 20 Points System

$$P_s = 80 \left(1 - \frac{P_t - P_{min}}{P_{min}} \right)$$

Where:

P_s = Points scored for price of tender under consideration

P_t = Price of tender under consideration

P_{min} = Price of lowest acceptable tender

4.0 POINTS AWARDED FOR SPECIFIC GOALS

- 4.1 In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the **points claimed** for the goal(s) stated in **Table 1** below, as supported by proof/ documentation stated in the **Conditions of Tender**:
- 4.2 In cases where the municipality intends to use Regulation 3(2) of the Regulations, which states that if it is unclear whether the 80/20 or 90/10 preference point system applies, the municipality must, in the tender documents, stipulate in the case of:
 - (a) an invitation for tender for income-generating contracts, that either the 80/20 or 90/10 preference point system will apply and that the highest acceptable tender will be used to determine the applicable preference point system, or
 - (b) any other invitation for tender, that either the 80/20 or 90/10 preference point system will apply and that the lowest acceptable tender will be used to determine the applicable preference point system,

then the municipality must indicate the points allocated for specific goals for both the 90/10 and 80/20 preference point system.

TABLE 1: Specific Goals for the tender and maximum points for each goal are indicated per the table below.

Tenderers are to indicate their points claim for each of the Specific Goals in the shaded blocks.

The Specific Goals to be allocated points in terms of this tender	Maximum Number of points ALLOCATED (80/20 system)	Maximum Number of points ALLOCATED (90/10 system)	Number of points CLAIMED (80/20 system)	Number of points CLAIMED (90/10 system)
Ownership Goal: Race (black)	3	n/a		n/a
Ownership Goal: Gender (female)	1.5	n/a		n/a
Ownership Goal: Disabilities	1.5	n/a		n/a
RDP Goal: The promotion of South African owned enterprises.	6	n/a		n/a
RDP Goal: The promotion of export-oriented production to create jobs.	4	n/a		n/a
RDP Goal: Social upliftment of communities	4	n/a		n/a
Total CLAIMED Points (20 Maximum)				n/a

I, the undersigned, who warrants that they are authorised to sign on behalf of the Tenderer, certify that the points claimed, based on the specific goals as specified in the tender, qualifies the tendering entity for the preference(s) shown.

I acknowledge that:

- 1) The information furnished is true and correct.
- 2) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form.
- 3) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 4.2, the contractor may be required to furnish documentary proof to the satisfaction of the organ of state that the claims are correct.
- 4) If the specific goals have been claimed or obtained on a fraudulent basis, or any of the conditions of contract have not been fulfilled, the organ of state may, in addition to any other remedy it may have:
 - (a) disqualify the person from the tendering process.
 - (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct.
 - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation.
 - (d) recommend that the tenderer or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and
 - (e) forward the matter for criminal prosecution, if deemed necessary.

NAME (Block Capitals): _____

Date

SIGNATURE: _____

5(d) MBD 8: DECLARATION OF BIDDER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES

- 1.0 This Municipal Bidding Document must form part of all bids invited.
- 2.0 It serves as a declaration to be used by municipalities and municipal entities in ensuring that when goods and services are being procured, all reasonable steps are taken to combat the abuse of the supply chain management system.
- 3.0 The bid of any bidder may be rejected if that bidder, or any of its directors have:
- abused the municipal entity's supply chain management system or committed any improper conduct in relation to such system.
 - been convicted for fraud or corruption during the past five years.
 - wilfully neglected, reneged on or failed to comply with any government, municipal or other public sector contract during the past five years.
 - been listed in the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004).
- 4.0 In order to give effect to the above, the following questions must be completed and submitted with the bid.

- 4.1 Is the bidder or any of its directors listed on the National Treasury's Database of Restricted Suppliers as companies or persons prohibited from doing business with the public sector?

(Companies or persons who are listed on this Database were informed in writing of this restriction by the Accounting Officer / Authority of the institution that imposed the restriction after the audi alteram partem rule was applied.)

The Database of Restricted Suppliers now resides on the National Treasury's website (www.treasury.gov.za) and can be accessed by clicking on its link at the bottom of the home page.

- 4.1.1 If YES, provide particulars.

.....

.....

- 4.2 Is the bidder or any of its directors listed on the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004)?

The Register for Tender Defaulters can be accessed on the National Treasury's website (www.treasury.gov.za) by clicking on its link at the bottom of the home page.

- 4.2.1 If YES, provide particulars.

.....

.....

- 4.3 Was the bidder or any of its directors convicted by a court of law (including a court of law outside the Republic of South Africa) for fraud or corruption during the past five years?

- 4.3.1 If YES, provide particulars.

.....

.....

Circle Applicable	
YES	NO

- 4.4 Does the bidder or any of its directors owe any municipal rates and taxes or municipal charges to the municipality / municipal entity, or to any other municipality / municipal entity, that is in arrears for more than three months?

YES

NO

4.4.1 If YES, provide particulars.

.....

- 4.5 Was any contract between the bidder and the municipality / municipal entity or any other organ of state terminated during the past five years on account of failure to perform on or comply with the contract?

YES

NO

4.5.1 If YES, provide particulars.

.....

I, the undersigned, who warrants that they are authorised to sign on behalf of the Tenderer, confirms that the information contained in this form is within my personal knowledge and is to the best of my belief both true and correct.

I accept that, in addition to cancellation of a contract, action may be taken against me should this declaration prove to be false.

NAME (Block Capitals):

Date

SIGNATURE:

5(e) MBD 9: CERTIFICATE OF INDEPENDENT BID DETERMINATION**NOTES**

- ¹ Includes price quotations, advertised competitive bids, limited bids and proposals.
- ² Bid rigging (or collusive bidding) occurs when businesses, that would otherwise be expected to compete, secretly conspire to raise prices or lower the quality of goods and / or services for purchasers who wish to acquire goods and / or services through a bidding process. Bid rigging is, therefore, an agreement between competitors not to compete.
- ³ Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.

- 1.0 This Municipal Bidding Document (MBD) must form part of all **bids**¹ invited.
- 2.0 Section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, prohibits an agreement between, or concerted practice by, firms, or a decision by an association of firms, if it is between parties in a horizontal relationship and if it involves collusive bidding (or **bid rigging**).² Collusive bidding is a *pe se* prohibition meaning that it cannot be justified under any grounds.
- 3.0 Municipal Supply Regulation 38 (1) prescribes that a supply chain management policy must provide measures for the combating of abuse of the supply chain management system, and must enable the accounting officer, among others, to:
- a. take all reasonable steps to prevent such abuse;
 - b. reject the bid of any bidder if that bidder or any of its directors has abused the supply chain management system of the municipality or municipal entity or has committed any improper conduct in relation to such system; and
 - c. cancel a contract awarded to a person if the person committed any corrupt or fraudulent act during the bidding process or the execution of the contract.
- 4.0 This MBD serves as a certificate of declaration that would be used by institutions to ensure that, when bids are considered, reasonable steps are taken to prevent any form of **bid rigging**.
- 5.0 In order to give effect to the above, the attached Certificate of Bid Determination (MBD 9) must be completed and submitted with the bid.

CERTIFICATE OF INDEPENDENT BID DETERMINATION

I, the undersigned, in submitting the accompanying bid:

(Bid Number and Description)

in response to the invitation for the bid made by:

(Name of Municipality / Municipal Entity)

do hereby make the following statements that I certify to be true and complete in every respect.

I certify, on behalf of:

(Name of Bidder)

that:

1. I have read and I understand the contents of this Certificate.
2. I understand that the accompanying bid will be disqualified if this Certificate is found not to be true and complete in every respect.
3. I am authorized by the bidder to sign this Certificate, and to submit the accompanying bid, on behalf of the bidder;
4. Each person whose signature appears on the accompanying bid has been authorized by the bidder to determine the terms of, and to sign, the bid, on behalf of the bidder;
5. For the purposes of this Certificate and the accompanying bid, I understand that the word "competitor" shall include any individual or organization, other than the bidder, whether or not affiliated with the bidder, who:
 - (a) has been requested to submit a bid in response to this bid invitation.
 - (b) could potentially submit a bid in response to this bid invitation, based on their qualifications, abilities or experience.
 - (c) provides the same goods and services as the bidder and/or is in the same line of business as the bidder.
6. The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement, or arrangement with any competitor. However, communication between partners in a joint venture or consortium³ will not be construed as collusive bidding.

7. In particular, without limiting the generality of paragraphs 6 above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:
 - (a) prices.
 - (b) geographical area where product or service will be rendered (market allocation).
 - (c) methods, factors or formulas used to calculate prices.
 - (d) the intention or decision to submit or not to submit, a bid.
 - (e) the submission of a bid which does not meet the specifications and conditions of the bid.
 - (f) bidding with the intention not to win the bid.
8. In addition, there have been no consultations, communications, agreements, or arrangements with any competitor regarding the quality, quantity, specifications and conditions or delivery particulars of the products or services to which this bid invitation relates.
9. The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.
10. I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

NAME (Block Capitals):

Date

SIGNATURE:

SECTION 5: CONDITIONS OF CONTRACT

GOVERNMENT PROCUREMENT: CONDITIONS OF CONTRACT (July 2010)

The **Conditions of Contract** are the **General Conditions of Contract** as published by the National Treasury titled "Government Procurement: General Conditions of Contract (July 2010), as amended by National Treasury Circular 52 dated 30 July 2010, hereinafter referred to as **GCC**.

THE NATIONAL TREASURY

Republic of South Africa



GOVERNMENT PROCUREMENT: GENERAL CONDITIONS OF CONTRACT

July 2010

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1. Definitions

The following terms shall be interpreted as indicated:

- 1.1 "Closing time" means the date and hour specified in the bidding documents for the receipt of bids.
- 1.2 "Contract" means the written agreement entered into between the purchaser and the supplier, as recorded in the contract form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.
- 1.3 "Contract price" means the price payable to the supplier under the contract for the full and proper performance of his contractual obligations.
- 1.4 "Corrupt practice" means the offering, giving, receiving, or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution.
- 1.5 "Countervailing duties" are imposed in cases where an enterprise abroad is subsidized by its government and encouraged to market its products internationally.
- 1.6 "Country of origin" means the place where the goods were mined, grown or produced or from which the services are supplied. Goods are produced when, through manufacturing, processing or substantial and major assembly of components, a commercially recognized new product results that is substantially different in basic characteristics or in purpose or utility from its components.
- 1.7 "Day" means calendar day.
- 1.8 "Delivery" means delivery in compliance of the conditions of the contract or order.
- 1.9 "Delivery ex stock" means immediate delivery directly from stock actually on hand.
- 1.10 "Delivery into consignee store or to his site" means delivered and unloaded in the specified store or depot or on the specified site in compliance with the conditions of the contract or order, the supplier bearing all risks and charges involved until the goods are so delivered and a valid receipt is obtained.
- 1.11 "Dumping" occurs when a private enterprise abroad market its goods on own initiative in the RSA at lower prices than that of the country of origin and which have the potential to harm the local industries in the RSA.
- 1.12 "Force majeure" means an event beyond the control of the supplier and not involving the supplier's fault or negligence and not foreseeable. Such events may include, but is not restricted to, acts of the purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.
- 1.13 "Fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any bidder, and includes collusive practice among bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the bidder of the benefits of free and open competition.
- 1.14 "GCC" means the General Conditions of Contract.
- 1.15 "Goods" means all of the equipment, machinery, and/or other materials that the supplier is required to supply to the purchaser under the contract.

- 1.16 "Imported content" means that portion of the bidding price represented by the cost of components, parts or materials which have been or are still to be imported (whether by the supplier or his subcontractors) and which costs are inclusive of the costs abroad, plus freight and other direct importation costs such as landing costs, dock dues, import duty, sales duty or other similar tax or duty at the South African place of entry as well as transportation and handling charges to the factory in the Republic where the goods covered by the bid will be manufactured.
- 1.17 "Local content" means that portion of the bidding price, which is not included in the imported content provided that local manufacture does take place.
- 1.18 "Manufacture" means the production of products in a factory using labour, materials, components and machinery and includes other related value-adding activities.
- 1.19 "Order" means an official written order issued for the supply of goods or works or the rendering of a service.
- 1.20 "Project site," where applicable, means the place indicated in bidding documents.
- 1.21 "Purchaser" means the organization purchasing the goods.
- 1.22 "Republic" means the Republic of South Africa.
- 1.23 "SCC" means the Special Conditions of Contract.
- 1.24 "Services" means those functional services ancillary to the supply of the goods, such as transportation and any other incidental services, such as installation, commissioning, provision of technical assistance, training, catering, gardening, security, maintenance and other such obligations of the supplier covered under the contract.
- 1.25 "Supplier" means the successful bidder who is awarded the contract to maintain and administer the required and specified service(s) to the State.
- 1.26 "Tort" means in breach of contract.
- 1.27 "Turnkey" means a procurement process where one service provider assumes total responsibility for all aspects of the project and delivers the full end product / service required by the contract.
- 1.28 "Written" or "in writing" means hand-written in ink or any form of electronic or mechanical writing.

2. Application

- 2.1 These general conditions are applicable to all bids, contracts and orders including bids for functional and professional services (excluding professional services related to the building and construction industry), sales, hiring, letting and the granting or acquiring of rights, but excluding immovable property, unless otherwise indicated in the bidding documents.
- 2.2 Where applicable, special conditions of contract are also laid down to cover specific goods, services or works.
- 2.3 Where such special conditions of contract are in conflict with these general conditions, the special conditions shall apply.

3. General

- 3.1 Unless otherwise indicated in the bidding documents, the purchaser shall not be liable for any expense incurred in the preparation and submission of a bid. Where applicable a non-refundable fee for documents may be charged.
- 3.2 Invitations to bid are usually published in locally distributed news media and on the municipality/municipal entity website.

4. Standards

- 4.1 The goods supplied shall conform to the standards mentioned in the bidding documents and specifications.

5. Use of contract documents and information inspection

- 5.1 The supplier shall not, without the purchaser's prior written consent, disclose the contract, or any provision thereof, or any specification, plan, drawing, pattern, sample, or information furnished by or on behalf of the purchaser in connection therewith, to any person other than a person employed by the supplier in the performance of the contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for purposes of such performance.
- 5.2 The supplier shall not, without the purchaser's prior written consent, make use of any document or information mentioned in GCC clause 5.1 except for purposes of performing the contract.
- 5.3 Any document, other than the contract itself mentioned in GCC clause 5.1 shall remain the property of the purchaser and shall be returned (all copies) to the purchaser on completion of the supplier's performance under the contract if so required by the purchaser.
- 5.4 The supplier shall permit the purchaser to inspect the supplier's records relating to the performance of the supplier and to have them audited by auditors appointed by the purchaser, if so required by the purchaser.

6. Patent Rights

- 6.1 The supplier shall indemnify the purchaser against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the goods or any part thereof by the purchaser.
- 6.2 When a supplier developed documentation / projects for the municipality / municipal entity, the intellectual, copy and patent rights or ownership of such documents or projects will vest in the municipality / municipal entity.

7. Performance security

- 7.1 Within thirty (30) days of receipt of the notification of contract award, the successful bidder shall furnish to the purchaser the performance security of the [amount specified in SCC](#).
- 7.2 The proceeds of the performance security shall be payable to the purchaser as compensation for any loss resulting from the supplier's failure to complete his obligations under the contract.
- 7.3 The performance security shall be denominated in the currency of the contract or in a freely convertible currency acceptable to the purchaser and shall be in one of the following forms:
- (a) a bank guarantee or an irrevocable letter of credit issued by a reputable bank located in the purchaser's country or abroad, acceptable to the purchaser, in the form provided in the bidding documents or another form acceptable to the purchaser; or
 - (b) a cashier's or certified cheque.
- 7.4 The performance security will be discharged by the purchaser and returned to the supplier not later than thirty (30) days following the date of completion of the supplier's performance obligations under the contract, including any warranty obligations, [unless otherwise specified](#).

8. Inspections, tests and analyses

- 8.1 All pre-bidding testing will be for the account of the bidder.
- 8.2 If it is a bid condition that goods to be produced or services to be rendered should at any stage be subject to inspections, tests and analyses, the bidder or contractor's premises shall be open, at all reasonable hours, for inspection by a representative of the purchaser or organization acting on behalf of the purchaser.

- 8.3 If there are no inspection requirements indicated in the bidding documents and no mention is made in the contract, but during the contract period it is decided that inspections shall be carried out, the purchaser shall itself make the necessary arrangements, including payment arrangements with the testing authority concerned.

- 8.4 If the inspections, tests and analyses referred to in clauses 8.2 and 8.3 show the goods to be in accordance with the contract requirements, the cost of the inspections, tests and analyses shall be defrayed by the purchaser.

- 8.5 Where the goods or services referred to in clauses 8.2 and 8.3 do not comply with the contract requirements, irrespective of whether such goods or services are accepted or not, the cost in connection with these inspections, tests or analyses shall be defrayed by the supplier.

- 8.6 Goods and services which are referred to in clauses 8.2 and 8.3 and which do not comply with the contract requirements may be rejected.

- 8.7 Any contract goods may on or after delivery be inspected, tested or analysed and may be rejected if found not to comply with the requirements of the contract. Such rejected goods shall be held at the cost and risk of the supplier who shall, when called upon, remove them immediately at his own cost and forthwith substitute them with goods, which do comply with the requirements of the contract. Failing such removal the rejected goods shall be returned at the suppliers cost and risk. Should the supplier fail to provide the substitute goods forthwith, the purchaser may, without giving the supplier further opportunity to substitute the rejected goods, purchase such goods as may be necessary at the expense of the supplier.

- 8.8 The provisions of clauses 8.4 to 8.7 shall not prejudice the right of the purchaser to cancel the contract on account of a breach of the conditions thereof, or to act in terms of Clause 22 of GCC.

9. Packing

- 9.1 The supplier shall provide such packing of the goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packing, case size weights shall take into consideration, where appropriate, the remoteness of the goods' final destination and the absence of heavy handling facilities at all points in transit.
- 9.2 The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the contract, [including additional requirements](#), if any, and in any subsequent instructions ordered by the purchaser.

10. Delivery and documents

- 10.1 Delivery of the goods and arrangements for shipping and clearance obligations, shall be made by the supplier in accordance with the terms [specified in the contract](#).

11. Insurance

- 11.1 The goods supplied under the contract shall be fully insured in a freely convertible currency against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery [in the manner specified](#).

12. Transportation

- 12.1 Should a price other than an all-inclusive delivered price be required, [this shall be specified](#).

13. Incidental Services

13.1 The supplier may be required to provide any or all of the following services, **including additional services**, if any:

- (a) performance or supervision of on-site assembly and/or commissioning of the supplied goods;
- (b) furnishing of tools required for assembly and/or maintenance of the supplied goods;
- (c) furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied goods;
- (d) performance or supervision or maintenance and/or repair of the supplied goods, for a period of time agreed by the parties, provided that this service shall not relieve the supplier of any warranty obligations under this contract; and
- (e) training of the purchaser's personnel, at the supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied goods.

13.2 Prices charged by the supplier for incidental services, if not included in the contract price for the goods, shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the supplier for similar services.

14. Spare parts

14.1 **As specified**, the supplier may be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the supplier:

- (a) such spare parts as the purchaser may elect to purchase from the supplier, provided that this election shall not relieve the supplier of any warranty obligations under the contract; and;
- (b) in the event of termination of production of the spare parts:
 - (i) advance notification to the purchaser of the pending termination, in sufficient time to permit the purchaser to procure needed requirements; and
 - (ii) following such termination, furnishing at no cost to the purchaser, the blueprints, drawings, and specifications of the spare parts, if requested.

15. Warranty

15.1 The supplier warrants that the goods supplied under the contract are new, unused, of the most recent or current models, and that they incorporate all recent improvements in design and materials unless provided otherwise in the contract. The supplier further warrants that all goods supplied under this contract shall have no defect, arising from design, materials, or workmanship (except when the design and/or material is required by the purchaser's specifications) or from any act or omission of the supplier, that may develop under normal use of the supplied goods in the conditions prevailing in the country of final destination.

15.2 This warranty shall remain valid for twelve (12) months after the goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the contract, or for eighteen (18) months after the date of shipment from the port or place of loading in the source country, whichever period concludes earlier, **unless specified otherwise**.

15.3 The purchaser shall promptly notify the supplier in writing of any claims arising under this warranty.

15.4 Upon receipt of such notice, the supplier shall, **within the period specified** and with all reasonable speed, repair or replace the defective goods or parts thereof, without costs to the purchaser.

15.5 If the supplier, having been notified, fails to remedy the defect(s) **within the period specified**, the purchaser may proceed to take such remedial action as may be necessary, at the supplier's risk and expense and without prejudice to any other rights which the purchaser may have against the supplier under the contract.

16. Payment

16.1 The method and conditions of payment to be made to the supplier under this contract **shall be specified**.

16.2 The supplier shall furnish the purchaser with an invoice accompanied by a copy of the delivery note and upon fulfilment of other obligations stipulated in the contract.

16.3 Payments shall be made promptly by the purchaser, but in no case later than thirty (30) days after submission of an invoice or claim by the supplier.

16.4 Payment will be made in Rand **unless otherwise stipulated**.

17. Prices

17.1 Prices charged by the supplier for goods delivered and services performed under the contract shall not vary from the prices quoted by the supplier in his bid, with the exception of any **price adjustments authorized** or in the purchaser's request for bid validity extension, as the case may be.

18. Variation orders

18.1 In cases where the estimated value of the envisaged changes in purchase does not vary more than 15% of the total value of the original contract, the contractor may be instructed to deliver the goods or render the services as such. In cases of measurable quantities, the contractor may be approached to reduce the unit price, and such offers may be accepted provided that there is no escalation in price.

19. Assignment

19.1 The supplier shall not assign, in whole or in part, its obligations to perform under the contract, except with the purchaser's prior written consent.

20. Subcontracts

20.1 The supplier shall notify the purchaser in writing of all subcontracts awarded under this contracts if not already specified in the bid. Such notification, in the original bid or later, shall not relieve the supplier from any liability or obligation under the contract.

21. Delays in the supplier's performance

21.1 Delivery of the goods and performance of services shall be made by the supplier in accordance with the **time schedule prescribed** by the purchaser in the contract.

21.2 If at any time during performance of the contract, the supplier or its subcontractor(s) should encounter conditions impeding timely delivery of the goods and performance of services, the supplier shall promptly notify the purchaser in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the supplier's notice, the purchaser shall evaluate the situation and may at his discretion extend the supplier's time for performance, with or without the imposition of penalties, in which case the extension shall be ratified by the parties by amendment of contract.

21.3 The right is reserved to procure outside of the contract small quantities or to have minor essential services executed if an emergency arises, the supplier's point of supply is not situated at or near the place where the goods are required, or the supplier's services are not readily available.

- 21.4 Except as provided under GCC Clause 25, a delay by the supplier in the performance of its delivery obligations shall render the supplier liable to the imposition of penalties, pursuant to GCC Clause 22, unless an extension of time is agreed upon pursuant to GCC Clause 22.2 without the application of penalties.
- 21.5 Upon any delay beyond the delivery period in the case of a goods contract, the purchaser shall, without cancelling the contract, be entitled to purchase goods of a similar quality and up to the same quantity in substitution of the goods not supplied in conformity with the contract and to return any goods delivered later at the supplier's expense and risk, or to cancel the contract and buy such goods as may be required to complete the contract and without prejudice to his other rights, be entitled to claim damages from the supplier.
- 22. Penalties**
- 22.1 Subject to GCC Clause 25, if the supplier fails to deliver any or all of the goods or to perform the services within the period(s) specified in the contract, the purchaser shall, without prejudice to its other remedies under the contract, deduct from the contract price, as a penalty, a sum calculated on the delivered price of the delayed goods or unperformed services using the current prime interest rate calculated for each day of the delay until actual delivery or performance. The purchaser may also consider termination of the contract pursuant to GCC Clause 23.
- 23. Termination for default**
- 23.1 The purchaser, without prejudice to any other remedy for breach of contract, by written notice of default sent to the supplier, may terminate this contract in whole or in part:
- if the supplier fails to deliver any or all of the goods within the period(s) specified in the contract, or within any extension thereof granted by the purchaser pursuant to GCC Clause 21.2;
 - if the supplier fails to perform any other obligation(s) under the contract; or
 - if the supplier, in the judgement of the purchaser, has engaged in corrupt or fraudulent practices in competing for or in executing the contract.
- 23.2 In the event the purchaser terminates the contract in whole or in part, the purchaser may procure, upon such terms and in such manner, as it deems appropriate, goods, works or services similar to those undelivered, and the supplier shall be liable to the purchaser for any excess costs for such similar goods, works or services. However, the supplier shall continue performance of the contract to the extent not terminated.
- 23.3 Where the purchaser terminates the contract in whole or in part, the purchaser may decide to impose a restriction penalty on the supplier by prohibiting such supplier from doing business with the public sector for a period not exceeding 10 years.
- 23.4 If a purchaser intends imposing a restriction on a supplier or any person associated with the supplier, the supplier will be allowed a time period of not more than fourteen (14) days to provide reasons why the envisaged restriction should not be imposed. Should the supplier fail to respond within the stipulated fourteen (14) days the purchaser may regard the supplier as having no objection and proceed with the restriction.
- 23.5 Any restriction imposed on any person by the purchaser will, at the discretion of the purchaser, also be applicable to any other enterprise or any partner, manager, director or other person who wholly or partly exercises or exercised or may exercise control over the enterprise of the first-mentioned person, and with which enterprise or person the first-mentioned person, is or was in the opinion of the purchaser actively associated.
- 23.6 If a restriction is imposed, the purchaser must, within five (5) working days of such imposition, furnish the National Treasury, with the following information:
- the name and address of the supplier and / or person restricted by the purchaser;
 - the date of commencement of the restriction
 - the period of restriction; and
 - the reasons for the restriction.
- These details will be loaded in the National Treasury's central database of suppliers or persons prohibited from doing business with the public sector.
- 23.7 If a court of law convicts a person of an offence as contemplated in sections 12 or 13 of the Prevention and Combating of Corrupt Activities Act, No. 12 of 2004, the court may also rule that such person's name be endorsed on the Register for Tender Defaulters. When a person's name has been endorsed on the Register, the person will be prohibited from doing business with the public sector for a period not less than five years and not more than 10 years. The National Treasury is empowered to determine the period of restriction and each case will be dealt with on its own merits. According to section 32 of the Act the Register must be open to the public. The Register can be perused on the National Treasury website.
- 24. Antidumping and countervailing duties and rights**
- 24.1 When, after the date of bid, provisional payments are required, or anti-dumping or countervailing duties are imposed, or the amount of a provisional payment or anti-dumping or countervailing right is increased in respect of any dumped or subsidized import, the State is not liable for any amount so required or imposed, or for the amount of any such increase. When, after the said date, such a provisional payment is no longer required or any such anti-dumping or countervailing right is abolished, or where the amount of such provisional payment or any such right is reduced, any such favourable difference shall on demand be paid forthwith by the supplier to the purchaser or the purchaser may deduct such amounts from moneys (if any) which may otherwise be due to the supplier in regard to goods or services which he delivered or rendered, or is to deliver or render in terms of the contract or any other contract or any other amount which may be due to him.
- 25. Force Majeure**
- 25.1 Notwithstanding the provisions of GCC Clauses 22 and 23, the supplier shall not be liable for forfeiture of its performance security, damages, or termination for default if and to the extent that his delay in performance or other failure to perform his obligations under the contract is the result of an event of force majeure.
- 25.2 If a force majeure situation arises, the supplier shall promptly notify the purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the purchaser in writing, the supplier shall continue to perform its obligations under the contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the force majeure event.
- 26. Termination for insolvency**
- 26.1 The purchaser may at any time terminate the contract by giving written notice to the supplier if the supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the supplier, provided that such termination will not prejudice or affect any right of action or remedy, which has accrued or will accrue thereafter to the purchaser.

27. Settlement of Disputes

- 27.1 If any dispute or difference of any kind whatsoever arises between the purchaser and the supplier in connection with or arising out of the contract, the parties shall make every effort to resolve amicably such dispute or difference by mutual consultation.
- 27.2 If, after thirty (30) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either the purchaser or the supplier may give notice to the other party of his intention to commence with mediation. No mediation in respect of this matter may be commenced unless such notice is given to the other party.
- 27.3 Should it not be possible to settle a dispute by means of mediation, it may be settled in a South African court of law.
- 27.4 Notwithstanding any reference to mediation and/or court proceedings herein,
- (a) the parties shall continue to perform their respective obligations under the contract unless they otherwise agree; and
 - (b) the purchaser shall pay the supplier any monies due the supplier for goods delivered and / or services rendered according to the prescripts of the contract.

28. Limitation of Liability

- 28.1 Except in cases of criminal negligence or wilful misconduct, and in the case of infringement pursuant to Clause 6;
- (a) the supplier shall not be liable to the purchaser, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the supplier to pay penalties and/or damages to the purchaser; and
 - (b) the aggregate liability of the supplier to the purchaser, whether under the contract, in tort or otherwise, shall not exceed the total contract price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment.

29. Governing language

- 29.1 The contract shall be written in English. All correspondence and other documents pertaining to the contract that is exchanged by the parties shall also be written in English.

30. Applicable law

- 30.1 The contract shall be interpreted in accordance with South African laws, unless otherwise specified.

31. Notices

- 31.1 Every written acceptance of a bid shall be posted to the supplier concerned by registered or certified mail and any other notice to him shall be posted by ordinary mail to the address furnished in his bid or to the address notified later by him in writing and such posting shall be deemed to be proper service of such notice.
- 31.2 The time mentioned in the contract documents for performing any act after such aforesaid notice has been given, shall be reckoned from the date of posting of such notice.

32. Taxes and duties

- 32.1 A foreign supplier shall be entirely responsible for all taxes, stamp duties, license fees, and other such levies imposed outside the purchaser's country.
- 32.2 A local supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted goods to the purchaser.
- 32.3 No contract shall be concluded with any bidder whose tax matters are not in order. Prior to the award of a bid SARS must have certified that the tax matters of the preferred bidder are in order.
- 32.4 No contract shall be concluded with any bidder whose municipal rates and taxes and municipal services charges are in arrears.

33. Transfer of Contracts

- 33.1 The contractor shall not abandon, transfer, cede assign or sublet a contract or part thereof without the written permission of the purchaser.

34. Amendment of contracts

- 34.1 No agreement to amend or vary a contract or order or the conditions, stipulations or provisions thereof shall be valid and of any force unless such agreement to amend or vary is entered into in writing and signed by the contracting parties. Any waiver of the requirement that the agreement to amend or vary shall be in writing, shall also be in writing.

35. Prohibition of restrictive practices

- 35.1 In terms of section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, an agreement between, or concerted practice by, firms, or a decision by an association of firms, is prohibited if it is between parties in a horizontal relationship and if a bidder(s) is / are or a contractor(s) was / were involved in collusive bidding.
- 35.2 If a bidder(s) or contractor(s) based on reasonable grounds or evidence obtained by the purchaser has / have engaged in the restrictive practice referred to above, the purchaser may refer the matter to the Competition Commission for investigation and possible imposition of administrative penalties as contemplated in section 59 of the Competition Act No 89 Of 1998.
- 35.3 If a bidder(s) or contractor(s) has / have been found guilty by the Competition Commission of the restrictive practice referred to above, the purchaser may, in addition and without prejudice to any other remedy provided for, invalidate the bid(s) for such item(s) offered, and / or terminate the contract in whole or part, and / or restrict the bidder(s) or contractor(s) from conducting business with the public sector for a period not exceeding ten (10) years and / or claim damages from the bidder(s) or contractor(s) concerned.

SECTION 6: SPECIAL / ADDITIONAL CONDITIONS OF CONTRACT

The **Conditions of Contract** make reference to the **Special Conditions of Contract (SSC)** for details that apply specifically to this bid. The **Special Conditions of Contract** shall have precedence in the interpretation of any ambiguity or inconsistency between it and the **Conditions of Contract**.

Each item below is cross-referenced to the clause in the **Conditions of Contract** to which it mainly applies.

SCC 1.2 CONTRACT

This contract will commence and terminate on occurrence of the following events respectively:

- [Contract commencement date will be 14 days from date stated on the letter of award (LOA).]
- [Contract termination date will be 36 months from commencement date.]

SCC 9.2 PACKING

All items shall be suitably packed to prevent damage or deterioration during transport, handling and storage.

SCC 10.1 DELIVERY AND DOCUMENTS

Delivery of goods shall be by road to eThekweni Electricity, Main Store, 11 Electron Road, (off Umgeni Road), Springfield, Durban.

SCC 12.1 TRANSPORTATION

The cost of transport shall be amortised into the bid price of the items.

SCC 16.1 PAYMENT

The Contractor shall submit to the Department (Employer) concerned a detailed account which shall reflect the identifying number of each item / service. Payment will be made on this account when checked and substantiated by the authorised official.

Payment for goods received and accepted by the Municipality shall be made no later than 30 days after submission of invoice or claim, provided however that all the terms of the contract are duly complied with.

Payment will be made only to the supplier. Factoring arrangements will not be accepted.

SCC 17 PRICES

Prices are fixed for each 12-month periods as specified on the Official Tender Form.

SCC 21.1 DELAYS IN THE SUPPLIER'S PERFORMANCE

The time schedule for the delivery of goods and performance of services is specified in **Section 10**.

ADDITIONAL CONDITIONS OF CONTRACT

ACC1 PERFORMANCE MONITORING & ASSESSMENT OF SERVICE PROVIDERS

For contract awards that are greater than R10m, the Contractor shall be subjected to "Performance Monitoring" assessments in terms of the applicable Section of the Council's current Supply Chain Management Policy.

ACC2 QUALITY OF PRODUCTS

No inferior products will be accepted under this enquiry.

Should there be any cause for complaint against the standard of service or quality of products offered which is not resolved within a period of 10 working days, the Municipality reserves the right to cancel the contract after serving one month's notice, in writing, to the supplier involved. Should such notice be given, the supplier shall nevertheless be obliged to perform the duties covered by the contract up to the date of expiration of the period of notice.

ACC3 SATISFACTORY PERFORMANCE

The supplier shall employ for the purpose of this contract only such personnel as are careful and competent and the Municipality shall be at liberty to object to and require the supplier to remove from the job forthwith any person, including supervisory staff, employed by the supplier who, in the opinion of the Municipality, misconducts himself/herself or is incompetent or negligent in the proper performance of his/her duties and such person shall not again be employed upon this contract without the permission of the Municipality.

ACC4 OCCUPATIONAL INJURIES AND DISEASES ACT

This act replaces the Workmen's Compensation Act:

The supplier shall, before commencement of work, produce documentary proof to the Deputy Municipal Manager, Treasury: Finance that he has complied in all respects with the provisions of the Occupational Injuries and Diseases Act. The supplier undertakes that he/she will perform and comply with all provisions of the Occupational Injuries and Diseases Act and more particularly that he/she will render all returns and pay all assessments for which he/she is liable in terms of such Act.

ACC5 DAMAGE TO PERSONS AND PROPERTY

- (1) The supplier **shall** indemnify and keep indemnified the Council against any claim for death, injury, damage or loss to any person or property whatsoever in respect thereof or in relation thereto.
- (2) The supplier enters into this contract as an independent contractor and shall be solely liable in respect of any claim for death, injury, damage or loss to any person or property whatsoever in respect thereof or in relation thereto.

ACC6 RATE OF EXCHANGE VARIATION

Where the goods are imported the Contractor shall within seven days of date of Official Purchase Order, arrange through his bankers for the foreign commitment to be covered forward down to the Rand in order to fix the rate of exchange. The Contractor shall notify the Municipality as soon as possible thereafter regarding the rate which has been fixed on such forward exchange. The forward cover shall be from a reputable South African bank. The Contractor is to confirm with the

employer prior to placing forward cover if the service provider is acceptable.

Any increase or decrease between the basic rate of exchange as at 12:00 on the date of close of the bid and that existing at the date of establishment of the forward exchange cover within the period stipulated above shall be paid or deducted by the Municipality. Upon the failure of the Contractor to arrange forward exchange cover, the Contractor shall be liable should there be an increase in the basic rate of exchange occurring after the last-mentioned date.

The bank charges incurred in obtaining the forward exchange cover must be included in the Tenderer's bid.

ACC7 ESTIMATED QUANTITIES

The quantities stated in **Section 8** are applicable for evaluation purposes only. The final quantity of goods and services required shall vary, depending on the total number of actual instances a service/goods will be required over the Contract Period. The rates tendered shall be applicable, irrespective of the total quantity of goods and services procured over the contract duration.

ACC8 SERVICE PROVIDER OFFICE REQUIREMENTS

The service provider must have, for the duration of the contract, a local presence (within the geographical eThekweni boundary).

ACC9 EMPOWERMENT REQUIREMENT

N/A

ACC10 EMPOWERMENT REQUIREMENT: CPG PENALTY

N/A

SECTION 7: SCOPE AND SPECIFICATION OF REQUIRED GOODS AND SERVICES

7.1 General requirements

- 7.1.1 This specification covers the technical and associated requirements for composite insulators and fittings. The composite insulators shall be of the long rod type for use on phase and earth conductors and OPGW, in AC overhead transmission power lines rated 132 kV and 275 kV.
- 7.1.2 The insulators shall comply fully with the requirements of IEC 61109, except where specified below.
- 7.1.3 The manufacturer shall be an ISO 9001 certified company.
- 7.1.4 The insulators shall be of the long rod type suitable for both horizontal and vertical mounting, i.e., as a strain and a suspension insulator.
- 7.1.5 The insulator shall have an impenetrable design to prevent humidity and moisture ingress.
- 7.1.6 Insulation materials shall be at least 3 mm thick. The insulator design shall ensure that the core is totally sealed.
- 7.1.7 The insulator housing shall be manufactured from silicon rubber only. The moulding process for the sheath, shed and end fitting seal shall be high pressure high temperature injection moulding in one step. The one step injection moulding shall cater for the single sealing system with HTV to produce the overcasting/ overmoulding on the end fittings. Gravity and lower pressure moulding are not acceptable.
- 7.1.8 Excess insulation material that is formed during the extrusion/moulding process shall be removed to affect a neat and smooth profile to prevent the entrapment of pollutants.
- 7.1.9 Insulators affected by chips, pits or blisters in any part of the housing, with the exception of sheds, will be rejected. Chips, pits and blisters, if they only affect sheds, as well as scratches and shrink marks will be accepted, provided that each single defective area is less than 25 mm² and its depth less than 1mm. Moreover, the total defective area shall not exceed 0.2% of the whole composite insulator surface.
- 7.1.10 The insulators shall have the minimum phase-to-ground specific creepage of 31 mm/kV unless otherwise specified in the Technical (Returnable) Schedules. This is to be based on the total creepage distance divided by 110% of the nominal phase-to-phase voltage.
- 7.1.11 Dimensions shall be stated in the Technical (Returnable) Schedules.

7.2 Normative references and operating conditions

- 7.2.1 The following standards contain provisions which, through reference in this text, constitute requirements of this specification. At the time of publication, the editions indicated were valid

No.	Document No.	Document Title
1	IEC 60120/ SANS 60120	Dimensions of ball and socket couplings of string insulator units
2	IEC 60372/ SANS 60372	Locking devices for ball and socket couplings of string insulator units- dimensions and test.
3	IEC 60383-1/ SANS 60383-1	Insulators for overhead lines with a nominal voltage above 1000 V Part 1 Ceramic or glass insulator units for ac systems: Definitions, test methods and acceptance criteria
4	IEC 60383-2/ SANS 60383-2	Insulators for overhead lines with a nominal voltage above 1000 V Part 2 Insulator strings and insulator sets for ac systems – Definitions, test methods and acceptance criteria
5	IEC 60437	Radio interference test on high voltage insulators

6	IEC 60471/ SANS 60471	Dimensions of clevis and tongue couplings of string insulator units.
7	IEC 60507	Artificial pollution tests on high voltage insulators to be used on ac systems.
8	IEC 60587	Track resistance of the material.
9	IEC 60815/ SANS 60815	Guide for the selection of insulators in respect of pollution conditions.
10	IEC 61109/ SANS 61109	Composite insulators for ac overhead lines with a nominal voltage greater than 1000V- Definitions, test methods and acceptance criteria.
11	IEC 61211/ SANS 61211	Insulators of ceramic material or glass for overhead lines with a nominal voltage greater than 1 000 V - Impulse puncture testing in air
12	IEC 61284/ SANS 61284	Overhead lines- Requirements and tests for fittings
13	IEC 61466-1/ SANS 61466-1	Composite string insulator units for overhead lines with a nominal voltage greater than 1 000 V – Part 1: Standard strength classes and end fittings
14	IEC 61467/ SANS 61467	Insulators for overhead lines with a nominal voltage above 1 000 V – AC power arc tests. (This test is excluded in IEC 61109)
15	IEC 61952	Composite line post insulators for ac overhead lines with a nominal voltage greater than 1000V – Definitions, test methods and acceptance criteria.
16	IEC 62217	Polymeric insulators for indoor and outdoor use with a nominal voltage >1 000 V – General definitions, test methods and acceptance criteria
17	SANS 121/ ISO 1461	Hot dip galvanized coatings on fabricated iron and steel articles- specifications and test methods.
18	OHS Act, 85 of 1993, as amended	Occupational Health and Safety Act 85 of 1993, as amended, incorporating the 2014 Construction Regulations. Published by South African Government Press, under auspices of the Department of Labour

7.3 Insulator core

- 7.3.1 Composite insulators shall be constructed using a central member of solid high-density axially aligned glass-fibre-reinforced pultruded epoxy resin rod. Hollow cores are **not acceptable**.
- 7.3.2 The epoxy resin shall be hydrolysis resistant. The glass fibre shall be acid resistant.
- 7.3.3 The core shall be of uniform cross-section and free of cracks and voids.
- 7.3.4 The sheath over the rod shall be of high temperature vulcanized (HTV) silicone rubber, minimum thickness of 3 mm, to ensure optimum adhesion.

7.4 Shed material and design

- 7.4.1 The sheds shall be HTV injected moulded from silicon rubber which is stabilised against the effects of ultraviolet and other solar radiation and the effects of airborne contaminants prevalent within the operating environment.
- 7.4.2 The Contractor shall provide evidence of the satisfactory performance of the shed material in these adverse environmental conditions.
- 7.4.3 The preferred colour for the shed material is grey RAL 7035.
- 7.4.4 Sheds with an open aerodynamic profile are preferred. Under-ribbed designs are not acceptable. Insulator shed profiles shall be designed in accordance with IEC 60815.
- 7.4.5 The insulator's shed diameter shall not be greater than 255 mm. Sheds shall be strong enough to

withstand the expected handling stresses. The sheds shall maintain their shape during handling storage and in-service operation.

7.4.6 The dimensions relating to the insulator profile shall be stated in the **Technical (Returnable) Schedules**.

7.4.7 The minimum ratio of shed spacing to shed projection shall be **0.8**.

7.5 Sealing of core and end-fittings

7.5.1 The interface between the rod and sheds, and between the rod, sheds and end fittings, shall be completely sealed against the atmosphere and moisture ingress so as to absolutely prevent the occurrence of electrical discharge along the interface.

7.5.2 In order to prevent moisture ingress into the core and end-fitting, the design of the insulators shall be such as to ensure that the core is totally encapsulated and fully sealed from the environment, along the core length and particularly at and within the end fittings. The HTV silicone rubber injection overmould at the end-fitting junction shall provide the additional seal to the normal crimp seal. Application of a sealant after the injection mould process at the external interface point to provide the complete sealing requirement is not acceptable as experience has shown that moisture migrates into the fitting, and this is evident by the corrosion of the inside of the fitting.

7.5.3 In order to limit the number of interface junctions, insulators shall have a housing that is directly extruded in one piece onto the core.

7.5.4 The interface seal shall be maintained under all mechanical loading conditions applied to the insulators. The interface seal must also prevent ingress of moisture under loads subjected during high-pressure water jet washing while in service.

7.5.5 The Bidder shall provide information explaining the construction of the interface between core and housing and the core, housing and end fittings with respect to the elimination of moisture ingress and subsequent longitudinal tracking.

7.6 End fittings

7.6.1 Phase conductor insulator: The coupling shall be ball and socket type to SANS 60120, unless otherwise specified in the **Technical (Returnable) Schedules** and/or Drawings. Socket coupling shall be provided on the upper end and a ball coupling on the lower end of the insulator. The socket coupling shall be provided with a retaining clip or locking device.

7.6.2 Earthwire and OPGW insulator: The coupling shall be clevis-clevis or clevis-tongue type to SANS 61466-1, as may be specified in the **Technical (Returnable) Schedules**. The clevis coupling shall be provided with a bolt and washer and retaining clip or locking device, to approved design and material standards.

7.6.3 Hot-dipped galvanized components must be in compliance with SANS 121, where the minimum thickness of the zinc coating shall be that for heavy duty applications. The Bidder/Contractor shall provide the details of galvanizing. Aluminium-based end fittings are not acceptable.

7.6.4 The metal fittings at both ends of all insulators shall be made of hot-dip galvanized high-tensile strength-forged steel and be able to transfer the mechanical load to the core. The fittings must be compressed on to the core material with a coaxial or hexagonal crimping process.

7.6.5 The Bidder shall provide details concerning the method of attaching the end fittings to the core.

7.6.6 The retaining pins or locking devices for the insulators shall comply with IEC 60372.

7.6.7 All materials used (clevis, tongue, ball, socket, split pin, etc.) shall be galvanically compatible.

7.7 Electrical design

- 7.7.1 The impulse, flashover and withstand voltages shall not be less than the values specified in the **Technical (Returnable) Schedules**.
- 7.7.2 Insulators shall be free from radio interference voltages when subjected to a test voltage of 1.2 times the maximum phase to neutral voltage using the test procedure IEC 60437 and test assembly of IEC 60383-2.
- 7.7.3 The insulator complete with all fittings shall not exhibit visible corona formation at voltages less than 1.2 times the maximum phase to neutral voltage.

7.8 Mechanical stress

- 7.8.1 The strength of the insulators shall be such that the maximum working load multiplied by a factor of safety of 3 shall not exceed the failing load given in IEC 61109 and specified in the **Technical (Returnable) Schedules**.
- 7.8.2 Post insulator cantilever strength shall be not less than 5.3kN.
- 7.8.3 The minimum factor of safety requirements as per the OHS Act shall be complied with.

7.9 Coupling lengths and nominal creepage distances

- 7.9.1 The required coupling lengths and nominal creepage distances for the insulators are detailed in the **Technical (Returnable) Schedules**.

7.10 Corona rings

- 7.10.1 Corona rings are required for 132kV and 275kV insulators.
- 7.10.2 These shall be fitted onto the insulator end fitting on the live side of the insulator (for 132kV and 275kV application) and ground side (for 275kV application).
- 7.10.3 The design shall enable removal and fitting of the corona ring without having to remove the insulator assembly when in the installed position.
- 7.10.4 The minimum distance between any part of the corona ring and the closest shed shall be 15 mm, so as to prevent corona discharges.
- 7.10.5 The diameter of the corona rings shall not exceed 340 mm. This is to cater for use on twin insulator assemblies spaced 380 mm apart.
- 7.10.6 These corona rings shall have a rating of 50 kA for 70 ms.

7.11 Arcing horns

- 7.11.1 Arcing horns are required on the insulators for the earthwire/ OPGW.
- 7.11.2 The arc gap shall be 30 mm.
- 7.11.3 The material used shall be mild steel, heavy duty hot-dip galvanised.
- 7.11.4 These arcing horns shall have a rating of 50 kA for 70 ms.

7.12 Design changes

- 7.12.1 Changes in insulator materials, dimensions, manufacturing process or any other design factors to the accepted design, shall invalidate the insulator design. Any insulator so modified shall be again

subjected to the design tests of this specification before delivery under this contract.

7.13 Drawings

- 7.13.1 Bidders' drawings shall show the outline of the insulators, together with all pertinent dimensions.
- 7.13.2 Drawings shall also show the details of the insulator longitudinal cross-section together with the interface between the housing and the core.
- 7.13.3 Each acceptance package shall include one copy of the general arrangement drawings of the insulator offered. The drawings shall clearly show the following information:
 - a) Dimensions and tolerances, including end fittings.
 - b) Material description, mass, and fabrication details.
 - c) Specified mechanical load or maximum design cantilever load.
 - d) Supplier's catalogue numbers.
 - e) Location and description identification markings.

Notes:

- a) Drawings must be supplied in an electronic *.dwg, *.dxf or *.pdf format.
- b) For post insulators provide an attachment of combined loading curves.

7.14 Identification marking

- 7.14.1 The insulator shall be permanently marked with the:
 - a) Name or the trademark of the Manufacturer.
 - b) Country of manufacture.
 - c) Type or model number.
 - d) Year of manufacture.
 - e) Specified mechanical load (SML).
 - f) Batch number.
- 7.14.2 The markings shall be legible and durable. Markings on sheds or housing shall remain legible during the life of the insulator.
- 7.14.3 The batch date may be displayed on a permanently fixed pigeon ring type label to the earth end fitting if this suits the manufacturing process. The batch date shall show at least the year and month in which the batch was produced.
- 7.14.4 The markings shall be indelibly marked, moulded or engraved in or on the material of the insulator.

7.15 Tests

- 7.15.1 All insulators shall have completed design, type, sample and routine tests described in IEC 61109, as amended, unless stipulated otherwise in this specification.
- 7.15.2 All insulators shall be tested in accordance with **Annexure C** of IEC 61109 for the full 1000 hours.
- 7.15.3 The IEC 61109 durability of end-fittings test is particularly salient because end fittings are particularly prone to water ingress due to electromechanical defects. The insulator must endure 1000 kV/microsecond steep-front voltage tests in positive and negative polarity, 25 times each without puncture of the end-fitting, housing, or core material.

- 7.15.4 Detailed test reports shall be submitted with the Bid to confirm that the insulators offered have met or exceeded the requirements of IEC 61109 including that in **Annexure C**.

7.16 Quality documentary evidence

- 7.16.1 Bidders are required to submit evidence that the design and manufacture of the insulators and fittings are in accordance with ISO 9001 and shall include the Capability Statement associated with the Quality System Certification.
- 7.16.2 If the Bidder is not the manufacturer, then the documentary evidence shall include the quality system certifications of both the Bidder and the Manufacturer.
- 7.16.3 Full technical and descriptive details, relating to all the items offered in this enquiry, shall be submitted so the offer can be fully evaluated. This shall include:
- a) Drawings.
 - b) Material composition, including filler materials.
 - c) Details of clamping arrangement of end fittings.
 - d) Reports on field experience with identical insulators.
- 7.16.4 Failure to submit such information may preclude further consideration of the bid.

7.17 Packing

- 7.17.1 All composite insulators shall be wrapped in plastic sleeves and packed in crates in such a way that the weight of the insulators does not rest on the sheds.
- 7.17.2 All crates shall be indelibly marked with the following:
- a) The Municipality's order number.
 - b) The Supplier's trade name or trade-mark or both.
 - c) The place of manufacture.
 - d) The code name and description of the item.
- 7.17.3 The packaging shall protect the insulator from the normal handling that can be expected from the point of despatch to the point of construction.
- 7.17.4 Any special handling requirements shall be clearly specified to Purchaser before delivery and shall be clearly specified on the packaging.
- 7.17.5 The packaging shall be capable of protecting the insulators for sustained periods in storage. The Manufacturer/Supplier shall notify the Purchaser of any special methods recommended for storage before delivery and on packaging materials.
- 7.17.6 The packaging shall not disintegrate due to any wetting and drying that may occur during the installation process on site.
- 7.17.7 The deliverer shall, at his expense, and at the Employer's discretion, replace insulator units that are damaged during transit due to the delivery negligence. The Manufacturer/ Supplier shall, at his expense, at the Employer's discretion, replace insulator units that are damaged due to unsuitable packaging. This includes the chipping of glazed surfaces.
- 7.17.8 If insulators are packed in boxes or crates on pallets, the gross weight of the pallets shall not exceed 1800 kg.
- 7.17.9 Pallets shall be suitable for handling by fork lift trucks, capable of two-way entry and be reversible.

7.18 Samples

- 7.18.1 Bidders shall submit samples of the items offered within a week of request by eThekweni Electricity.
- 7.18.2 The samples shall be delivered to eThekweni Electricity, HV Lines Building No.11, 11 Electron Road (off Umgeni Road), Springfield, Durban, South Africa or as specified at the time of delivery.
- 7.18.3 Bidders are required to note that bid documents must NOT be included in parcels containing samples.
- 7.18.4 The Municipality reserves the right to submit samples for such tests as deemed reasonable and necessary.
- 7.18.5 Unsuccessful bidders situated within the Durban Metropolitan area shall collect and remove their samples within one month of being notified that their bids have not been successful, failing which they will be deemed to have waived all rights to the samples and such samples not collected after one month from the date of such notification will become the property of the Municipality for disposal at its discretion.
- 7.18.6 Unsuccessful bidders situated within the Republic outside the Durban Metropolitan area may have their samples returned to them at their request, expense, and risk. Confirmation of this must be stated in the bid document.
- 7.18.7 Where a bid is accepted for the supply of goods according to a sample submitted by the bidder, such sample will become the contract sample and will be retained by the Municipality for the duration of the contract, after which the sample may be returned at the request of the Contractor, with the expense of returning to be for the Contractor's account.

7.19 Health, safety and environmental issues

- 7.19.1 The Bidder shall submit details or a list of:
 - a) All materials used in the product, including packaging, and associated chemical data sheets.
 - b) Whether the product poses any health or safety risks to persons handling the product. In addition, if there are risks, provide details of the protective gear required to handle the product, e.g. leather gloves.
 - c) How the product should be stored and its shelf life.
 - d) How the product should be disposed of at the end of its useful life or in the event of failure.
 - e) Whether any toxic by-products are produced (whether in gaseous, solid or liquid form) in the event of the product being exposed to fire or heated to elevated temperatures.
 - f) Any other pertinent and relevant information relating to health, safety, and environmental issues.
 - g) The percentage of the product which can be recycled.

7.20 Handling

- 7.20.1 Handling, storage and precautionary installation equipment and information shall be made available for insulator products offered on request.

7.21 Corona and radio interference

- 7.21.1 The design of all line fittings shall avoid sharp corners/edges or projections which would produce high electrical stress in normal operation.

- 7.21.2 Particular care shall be taken during manufacture of the fittings and during subsequent handling to ensure that smooth surfaces are free from abrasion.

7.22 Zinc coating

- 7.22.1 All the iron and steel parts and members shall be zinc coated upon completion of the fabrication. The minimum local galvanizing thickness shall be 85 µm. The Bidder/Contractor shall inform the Employer in writing as to what their capabilities are if this specified thickness is not achievable.
- 7.22.2 The zinc coating is to be uniform, clean, smooth, and free from burrs, sharp edges, lumps, and dross so that interconnection parts will fit properly, and parts may be assembled and disassembled readily. The zinc coating shall be carried out by the hot dip galvanizing process for all parts.
- 7.22.3 Threaded parts shall be coated after being threaded and excessive zinc shall be removed from the threads. Nuts and locknuts shall be re-tapped after being coated and shall be capable of being threaded the entire length of threads without use of tools.
- 7.22.4 The female threads shall be treated with approved rust inhibitor.

7.23 Bolts and nuts

- 7.23.1 Bolts and nuts shall be hexagon and, in general, meet the requirements SANS 1700 (and DIN 7990 where applicable), except that shank and thread lengths may be non-standard.
- 7.23.2 Corona free nuts may be furnished, when necessary, for clevis bolts. At least two sides of each nut shall be flat for a portion of the nut height to permit tightening or loosening of the nut by means of a spanner.
- 7.23.3 No lock nuts shall be used. Split pins shall be provided to prevent the nut from working loose.
- 7.23.4 For clevis bolts, the bolt thread length, and the position of the split pin, with the bolt head contacting the shackle or clevis side, shall be such that:
- The nut shall not touch the side of the clevis, when run to the end of the threads.
 - When the nut is backed against the split pin there shall be a maximum of 7 mm between the nut and clevis for bolts up to and including 25 mm in diameter, or 10 mm for bolts larger than 25 mm in diameter.
 - The split pin can be freely installed.

7.24 Split-pins

- 7.24.1 Humpback split pins shall not be accepted.
- 7.24.2 Split pins shall be made of stainless steel suitable for the corrosive coastal environment. The nominal diameter of split pins shall be a minimum of 3 mm for bolts up to and including 19 mm; 5 mm for bolts up to and including 28 mm; and 6 mm for bolts larger than 28 mm.
- 7.24.3 Split pin holes shall be 0.4 mm to 0.8 mm larger than the nominal diameter of the split pin.
- 7.24.4 Split pins less than 6 mm in diameter shall have a length of 9 mm to 13 mm longer than the bolt diameter. Split pins 6 mm in diameter shall have a length 16 mm to 19 mm longer than the bolt diameter. The length of a split pin is measured from the underside of the eye to the end of the shortest leg.

7.25 Ball and socket fittings

- 7.25.1 Dimensions and tolerances of all ball and socket hardware shall be in accordance with IEC 60120,

except that the r4 dimension on the pin ball shall be a minimum of 4 mm. All dimensions shall be checked after galvanizing by the gauges specified in the above Specification.

- 7.25.2 Stainless steel locking devices shall be used in all socket fittings. With the exception of the head of split pins, the dimensions and general requirements of IEC 60372-1 shall be met.

SECTION 8: BILL OF QUANTITIES**SECTION 8.1: BIILL OF QUANTITIES FOR CATEGORY 1**

Item	Description	Unit of Measure	Annual Estimated Quantity	Unit Price in Rands Year 1 Excl. VAT	Unit Price in Rands Year 2 Excl. VAT	Unit Price in Rands Year 3 Excl. VAT	Total Price in Rands Excl. VAT (Y1+Y2+Y3)* est. quantity
1.1	Insulator composite long-rod, ball-socket, 120 kN, 16 mm, for 132 kV with corona ring	each	500				
1.2	Insulator composite long-rod, ball-socket, 210 kN, 20 mm, for 132 kV with corona ring	each	1500				
Total Category 1 (excl. VAT):							
VAT:							
Total Category 1 (incl. VAT):							

Note: Bidders shall note that the historical usage patterns in no way indicate future trends. The above figures are provided for information purposes only, and in no way imply that future usage or buying patterns will be similar.

* **Signature:*** **Name** (*in capitals*):**Date:****Capacity:*** **Name of Business:****Tel:**

Failure to complete the Mandatory Information and sign this Tender Form will invalidate the tender

SECTION 8.2: BILL OF QUANTITIES FOR CATEGORY 2

Item	Description	Unit of Measure	Annual Estimated Quantity	Unit Price in Rands Year 1 Excl. VAT	Unit Price in Rands Year 2 Excl. VAT	Unit Price in Rands Year 3 Excl. VAT	Total Price in Rands Excl. VAT (Y1+Y2+Y3)* est. quantity
2.1	Insulator composite long-rod, ball-socket, 120 kN, 16 mm, for 275 kV with corona rings at live and ground sides	each	200				
2.2	Insulator composite long-rod, ball-socket, 210 kN, 20 mm, for 275 kV with corona rings at live and ground sides	each	600				
Total Category 2 (excl. VAT):							
VAT:							
Total Category 2 (incl. VAT):							

Note: Bidders shall note that the historical usage patterns in no way indicate future trends. The above figures are provided for information purposes only, and in no way imply that future usage or buying patterns will be similar.

* Signature:

* Name (in capitals):

Date:

Capacity:

* Name of Business:

Tel:

Failure to complete the Mandatory Information and sign this Tender Form will invalidate the tender

SECTION 8.3: BIILL OF QUANTITIES FOR CATEGORY 3

Item	Description	Unit of Measure	Annual Estimated Quantity	Unit Price in Rands Year 1 Excl. VAT	Unit Price in Rands Year 2 Excl. VAT	Unit Price in Rands Year 3 Excl. VAT	Total Price in Rands Excl. VAT (Y1+Y2+Y3)* est. quantity
3.1	Insulator composite long-rod, clevis-tongue straight/inline, 120 kN, 16 mm, for OPGW and Earthwire	each	200				
3.2	Insulator composite long-rod, clevis-clevis twisted, 120 kN, 16 mm, for OPGW and Earthwire	each	200				
Total Category 3 (excl. VAT):							
VAT:							
Total Category 3 (incl. VAT):							

Note: Bidders shall note that the historical usage patterns in no way indicate future trends. The above figures are provided for information purposes only, and in no way imply that future usage or buying patterns will be similar.

* Signature:

* Name (in capitals):

Date:

Capacity:

* Name of Business:

Tel:

Failure to complete the Mandatory Information and sign this Tender Form will invalidate the tender

SECTION 9 : OFFICIAL TENDER FORM

Part A: OFFER BY TENDERER - In response to **Tender Number : 30765-5E** I / we hereby offer to supply the goods / services detailed hereunder in accordance with the Technical Specification, and subject to the Standard and Special Conditions of Tender (Goods/Services), and General and Special Conditions of Contract, which accompanied your Tender (with which I / we acknowledge myself / ourselves to be fully acquainted) at individual rates are indicated in Section 8 : Bill Of Quantities / Schedule of Rates.

I / We hereby agree that this tender will hold good and remain open for acceptance as specified in the Conditions of Tender or during such other period as may be specified in the Special Conditions of Tender.

eThekwini Vendor Portal Registration Number:

PR

C.S.D Registration Number:

MAAA

S.A.R.S Pin Number:

Completion of the following is compulsory. Failure to declare the following will invalidate your offer.

Declaration of Interest

Are any of the entity's directors, managers, principal shareholder or stakeholders currently in the service of the state or have been in the service of the state in the past twelve (12) months?					<input type="checkbox"/> Yes	<input type="checkbox"/> No
Is any spouse, child or parent of the entity's directors, managers, principal shareholder, or stakeholder currently in the service of the state or have been in the service of the state in the past twelve (12) months?					<input type="checkbox"/> Yes	<input type="checkbox"/> No
Name of entity's member	Position in Entity	Name of Relative (if applicable)	Name of State Institution	Nature of Relationship		
Do you or any other directors, managers, principal shareholder, or stakeholder of your entity have any relationship (spouse, family, friend, associate) with persons in the service of the state and/or who may be involved with the evaluation of this quotation? If yes, please furnish particulars below					<input type="checkbox"/> Yes	<input type="checkbox"/> No
Name of entity's member	Position in Entity	Name of Relative (if applicable)	Name of State Institution	Nature of Relationship		

Refer to the Consolidated MBD Documents in Section 4(d) for the definition of "in service of the State"

*** Signature :***** Name (capitals):****Date:****Capacity:***** Name of Business:****Tel:****Address:****Fax:***** Denotes Mandatory Information**

Failure to complete the Mandatory Information and sign this Tender Form will invalidate the tender

Part B: ACCEPTANCE BY PURCHASER - The Purchaser, as represented by the following Official, hereby accepts the Tenderer's offer in terms of the Conditions of Tender, Specifications, and Conditions of Contract.

Signature:**Name (capitals):****Date:****Capacity:**

SECTION 10: ANNEXURES

10.1 TECHNICAL SCHEDULES

10.1.1 DESCRIPTIONS FOR VARIOUS COMPONENTS FOR THE INSULATOR

Tenderers are to comply with the following requirements:

- 1) The pages of this schedule requiring technical data for materials /components offered shall be filled, completed, signed and returned with bid documents of which it forms part.
- 2) Materials listed in the Qualified Products List (QPL) and offers by Tenderers:
 - a) Various materials and components from known manufacturers in South Africa (and Agents/ Suppliers where the manufacturers are not based in South Africa) have been evaluated and those that met the specifications are shortlisted listed in the Qualified Products List (QPL). Some of the materials, such as towers, were analysed in detail for example 3-D models compiled, to ensure that these items are suitable for the project requirements.
 - b) The QPL is intended to assist Tenderers with the tendering process because it has been found in the recent past that Tenderers were unable to obtain and assess the relevant technical data for materials offered and thus this resulted in non-awards of the contracts.
 - c) Since there could be other manufacturers of the same materials in South Africa, the enquiry allows for Tenderers to offer materials/ components other than those appearing on the QPL. Should the Tenderer choose to provide material other than those listed in the QPL, all the relevant technical data and drawings are to be submitted with the tender and these will be used for the evaluation of the materials.
 - d) Technical data for materials offered from the QPL are not required to be filled in the Returnable Schedule. In this instance, that part of the Returnable Schedule for the specific item/s shall be struck off and stated as "As per QPL", signed and submitted with the bid.
 - e) Technical data for materials offered from the QPL are not required to be submitted. In this instance, that part of the Returnable Schedule for the specific item/s shall be struck off and stated as "As per QPL". Nevertheless, the schedule shall be signed and submitted with the bid.
 - f) For the Local Content and Production requirements, the tenderer must still complete and sign MBD 6.2 and attach Annexure C (of SATS 1286:2011) for materials offered from the QPL.

10.1.2 DESCRIPTIONS FOR VARIOUS COMPONENTS FOR THE INSULATOR

- 1) Core diameter: the diameter of the resin-impregnated glass fibres.
- 2) Thickness of housing over core: the thickness of the housing (insulating material) over the core.
- 3) Shed size: sheds may be of two sizes/ diameters referred to as "small" and "large". If there are only one size/ diameter, then fill the required details for either the "small" or "large" sheds and state "N/A" for the other.
- 4) Shed diameter: the diameter of the projecting part of the housing intended to increase the creepage distance.
- 5) Shed spacing: the vertical distance between two similar points on successive sheds.
- 6) Shed projection: the maximum shed overhang.
- 7) Ratio of shed spacing to shed projection: the ratio of the vertical distance between two similar points on successive sheds and the maximum shed overhang.
- 8) Shed clearance: the perpendicular length from the top surface of a shed to the outer rib of the shed above.
- 9) Shed inclination: the inclination of the upper surface of a shed from the horizontal.
- 10) Total creepage distance: the shortest distance along the contours of the external surfaces of the insulating parts of the housing between those parts (metal fittings) that normally have the operating voltage between them.
- 11) Total arcing distance: the taut string distance in air measured between the metal fittings.
- 12) Coupling (connecting) length: the axial distance between the fixing centres of the metal fittings.
- 13) Corona rings size ranges specified in the tables for the following reasons:
 - a) Clearance from any part of the corona ring, including the ring support brackets/ arms, to any part

of the nearest insulator shed/s shall not be less than 15 mm.

- b) Since twin assemblies have a spacing of 380 mm, the outer diameter of the largest corona ring cannot be more than 380 mm. To prevent contact of 2 corona rings in the twin assembly set, the size range is limited as per the values in the table, in particular for the 275 kV insulator application.

10.1.3 COMPOSITE INSULATORS OFFER FROM QUALIFIED PRODUCTS LIST AND/OR OTHER MANUFACTURERS/ SUPPLIERS

Item	Description with main requirements	Manufacturer/ Supplier (from QPL and Other) And Product Code	Offered by Bidder (Yes/ No)
1.1	Insulator, composite longrod, 132 kV, 120kN, 16mm BS end fitting c/w corona ring live side: (1) Insulation material = silicone rubber. (2) Coupling (section) length = 1470mm ± 20mm. (3) Creepage distance ≥ 4495mm; (≥ 31mm/kV). (4) Lightning impulse withstand voltage ≥ 650kV. (5) Polymeric housing moulding method = Injection HTV. (6) End fitting sealing = Overmould. (7) Core diameter ≥ 19mm. (8) Insulating sheath over fiberglass core ≥ 3mm. (9) Dry arcing distance ≥ 1100mm. (10) End fitting galvanising thickness minimum local ≥ 85µm. (11) End fitting galvanising thickness average ≥ 100µm. (12) Appropriate standards: IEC 61109; SAN 121.	Vexila (Pty) Ltd 144 032-001G-XL (Insulator). 148-040-013 (250mm corona ring live side).	
		Other Manufacturer/ Supplier and Product Code/s:	
1.2	Insulator, composite longrod, 132 kV, 210kN, 20mm BS end fitting c/w corona ring live side (1) Insulation material = silicone rubber. (2) Coupling (section) length = 1470mm ± 20mm. (3) Creepage distance ≥ 4495mm; (≥ 31mm/kV). (4) Lightning impulse withstand voltage ≥ 650kV. (5) Polymeric housing moulding method = Injection HTV. (6) End fitting sealing = Overmould. (7) Core diameter ≥ 19mm. (8) Insulating sheath over fiberglass core ≥ 3mm. (9) Dry arcing distance ≥ 1100mm. (1) End fitting galvanising thickness minimum local ≥ 85µm. (2) End fitting galvanising thickness average ≥ 100µm. (10) Appropriate standards: IEC 61109; SAN 121.	Vexila (Pty) Ltd 144 1422-205G-XL (insulator). 148-040-013 (250mm corona ring live side).	
		Other Manufacturer/ Supplier and Product Code/s:	
2.1	Insulator, composite longrod, 275kV, 120kN, 16mm BS end fittings c/w corona ring live side and ground side: (3) Insulation material = silicone rubber. (4) Coupling (section) length = 3070mm ± 20mm. (5) Creepage distance ≥ 9300mm; (≥ 31mm/kV). (6) Lightning impulse withstand voltage ≥ 1050kV. (7) Polymeric housing moulding method = Injection HTV. (8) End fitting sealing = Overmould. (9) Core diameter ≥ 19mm. (10) Insulating sheath over fiberglass core ≥ 3mm. (11) Dry arcing distance ≥ 2700mm. (12) End fitting galvanising thickness minimum local ≥ 85µm. (13) End fitting galvanising thickness average ≥ 100µm. (14) Appropriate standards: IEC 61109; SAN 121.	Vexila (Pty) Ltd 144 3354-105GB-XL (Insulator). 148 040-001 (330mm corona ring live side). 148 040-013 (250mm corona ring ground side).	
		Other Manufacturer/ Supplier and Product Code/s:	
2.2	Insulator, composite longrod, 275kV, 210kN, 20mm BS end fittings c/w corona ring live side and ground side: (1) Insulation material = silicone rubber. (2) Coupling (section) length = 3070mm ± 20mm. (3) Creepage distance ≥ 9300mm; (≥ 31mm/kV). (4) Lightning impulse withstand voltage ≥ 1050kV.	Vexila (Pty) Ltd 144 3452-205BG-XL (insulator). 148 040-001 (330mm corona ring live side). 148 040-013 (250mm corona ring ground side).	

	(5) Polymeric housing moulding method = Injection HTV. (6) End fitting sealing = Overmould. (7) Core diameter $\geq 19\text{mm}$. (8) Insulating sheath over fiberglass core $\geq 3\text{mm}$. (9) Dry arcing distance $\geq 2700\text{mm}$. (10) End fitting galvanising thickness minimum local $\geq 85\mu\text{m}$. (11) End fitting galvanising thickness average $\geq 100\mu\text{m}$. (12) Appropriate standards: IEC 61109; SAN 121.	Other Manufacturer/ Supplier and Product Code/s:	
3.1	Insulator, composite longrod, for Earthwire and OPGW, 120kN, 16mm Clevis-Tongue Straight (inline) end fitting c/w arcing horns: (1) Insulation material = silicone rubber. (2) Coupling (section) length = $360\text{mm} \pm 20\text{mm}$. (3) Creepage distance $\geq 280\text{mm}$. (4) Lightning impulse withstand voltage $\geq 95\text{kV}$. (5) Polymeric housing moulding method = Injection HTV. (6) End fitting sealing = Overmould. (7) Core diameter $\geq 15\text{mm}$. (8) Insulating sheath over fiberglass core $\geq 3\text{mm}$. (9) Dry arcing distance $\geq 125\text{mm}$. (10) End fitting galvanising thickness minimum local $\geq 85\mu\text{m}$. (11) End fitting galvanising thickness average $\geq 100\mu\text{m}$. (12) Arcing horn gap to be adjustable to 30mm . (13) Appropriate standards: IEC 61109; SAN 121.	Vexila (Pty) Ltd 144 039-167 (insulator with arcing horns). Other Manufacturer/ Supplier and Product Code/s:	
3.2	Insulator, composite longrod, for Earthwire and OPGW, 120kN, 16mm Clevis-Clevis Twisted end fitting c/w arcing horns: (1) Insulation material = silicone rubber. (2) Coupling (section) length = $360\text{mm} \pm 20\text{mm}$. (3) Creepage distance $\geq 280\text{mm}$. (4) Lightning impulse withstand voltage $\geq 95\text{kV}$. (5) Polymeric housing moulding method = Injection HTV. (6) End fitting sealing = Overmould. (7) Core diameter $\geq 15\text{mm}$. (8) Insulating sheath over fiberglass core $\geq 3\text{mm}$. (9) Dry arcing distance $\geq 125\text{mm}$. (10) End fitting galvanising thickness minimum local $\geq 85\mu\text{m}$. (11) End fitting galvanising thickness average $\geq 100\mu\text{m}$. (12) Arcing horn gap to be adjustable to 30mm . (13) Appropriate standards: IEC 61109; SAN 121.	Vexila (Pty) Ltd 144 039-168 (insulator with arcing horns). Other Manufacturer/ Supplier and Product Code/s:	

Name : Position:

Signature: Date:
 (of person authorised to sign on behalf of the Tenderer)

Enterprise Name:

10.1.4 TECHNICAL DATA FOR COMPOSITE INSULATORS OFFERED FROM OTHER MANUFACTURERS/ SUPPLIERS (I.E. FOR PRODUCT/S NOT LISTED IN THE QPL)

10.1.4.1 INSULATOR COMPOSITE LONGROD, 132kV, 120kN, 16mm, 31mm/kV

Item	Description Details for 132kV Insulator composite longrod, 120kN, 16mm, 31mm/kV	UOM	Technical Details	
			Required	Offered
				(fill if not shaded)
1.0	Insulator			
1.1	Manufacturer of Insulator		Data required	
1.2	Place of Manufacture		Data required	
1.3	Place of Testing		Data required	
1.4	Insulator unit type number/ product code		Data required	
1.5	Insulating material		Silicone Rubber	
1.6	Attachment type		Ball and Socket	
1.7	Ball and socket diameter	mm	16	
1.8	Specified Mechanical Load (SML)	kN	≥ 120	
1.9	Coupling (section) length	mm	1470 ± 20	
1.10	Appropriate standard		IEC 61109	
1.11	Polymeric housing moulding method		Injection HTV	
1.12	Core diameter	mm	Data required	
1.13	Insulating sheath over fiberglass core thickness	mm	≥ 3	
1.14	Creepage distance	mm	≥ 4495	
1.15	End fittings- hot dip galvanizing		SAN 121	
1.16	End fitting galvanising thickness minimum local	µm	85	
1.17	End fitting galvanising thickness average	µm	100	
1.18	Lightning impulse withstand voltage	kV	≥ 650	
1.19	Dry arcing distance (total arcing distance)	mm	≥ 1100	
1.20	Dry flashover voltage	kV	Data required	
1.21	Wet flashover voltage	kV	Data required	
1.22	Puncture voltage	kV	Data required	
1.23	Standard to which tested	Std	Data required	
1.24	Mass of single insulator only	kg	Data required	
1.25	Minimum number of sheds	qty	Data required	
1.26	Shed diameter-small	mm	Data required	
1.27	Shed diameter-large	mm	Data required	
1.28	Shed number-small	No.	Data required	
1.29	Shed number-large	No.	Data required	
1.30	Shed clearance	mm	Data required	
1.31	Shed inclination	deg	Data required	
1.32	Insulator colour		Data required	
1.33	Shed spacing to projection ratio		Data required	
1.34	Percentage of all aluminium trihydrate in composite material	%	Data required	
2.0	Corona Rings			
2.1a	Corona ring required for live side		Yes	
2.1b	Corona ring diameter for live side	mm	Data required	
2.1c	Corona ring manufacturer/ stock code		Data required	
2.2a	Corona ring required for ground side		No	

Item	Description Details for 132kV Insulator composite longrod, 120kN, 16mm, 31mm/kV	UOM	Technical Details	
			Required	Offered
				(fill if not shaded)
2.2b	Corona ring diameter for ground side	mm	N/A	
2.2c	Corona ring manufacturer/ stock code		N/A	
3.0	Arcing Horns			
3.1	Arcing horns required and fitting onto insulator at both ends		No	
3.2	Gap between arcing horns of standard set when horns fitted at both live and earth ends	mm	N/A	N/A
4.0	Electric Field Stresses			
4.1	E-Field for the first 10 mm along the insulating surface of both live and dead-ends-average	kV/mm	≤ 0.42	
4.2	E-Field stress at end-fitting seal	kV/mm	≤ 0.35	
4.3	E-Field stress on corona ring	kV/mm	≤ 1.8	
4.4	Modelling using 3D E-field simulations and laboratory testing and test results required		Yes	
5.0	Technical Documents			
5.1	Drawings, test reports, certificates and datasheets required in electronic format (USB memory stick)		Yes	
5.2	Drawing Number for complete Unit		Data required	

NAME : (Block Capitals)

SIGNATURE : DATE:
(of person authorised to sign on behalf of the Tenderer)

Enterprise Name

10.1.4.2 INSULATOR COMPOSITE LONGROD, 132kV, 210kN, 20mm, 31mm/kV

Item	Description Details for 132kV Insulator composite longrod, 210kN, 20mm, 31mm/kV	UOM	Technical Details	
			Required	Offered
				(fill if not shaded)
1.0	Insulator			
1.1	Manufacturer of Insulator		Data required	
1.2	Place of Manufacture		Data required	
1.3	Place of Testing		Data required	
1.4	Insulator unit type number/ product code		Data required	
1.5	Insulating material		Silicone Rubber	
1.6	Attachment type		Ball and Socket	
1.7	Ball and socket diameter	mm	20	
1.8	Specified Mechanical Load (SML	kN	≥ 210	
1.9	Coupling (section) length	mm	1470 ± 20	
1.10	Appropriate standard		IEC 61109	
1.11	Polymeric housing moulding method		Injection HTV	
1.12	Core diameter	mm	Data required	
1.13	Insulating sheath over fiberglass core thickness	mm	≥ 3	
1.14	Creepage distance	mm	≥ 4495	
1.15	End fittings- hot dip galvanizing		SAN 121	
1.16	End fitting galvanising thickness minimum local	µm	85	
1.17	End fitting galvanising thickness average	µm	100	
1.18	Lightning impulse withstand voltage	kV	≥ 650	
1.19	Dry arcing distance (total arcing distance)	mm	≥ 1100	
1.20	Dry flashover voltage	kV	Data required	
1.21	Wet flashover voltage	kV	Data required	
1.22	Puncture voltage	kV	Data required	
1.23	Standard to which tested	Std	Data required	
1.24	Mass of single insulator only	kg	Data required	
1.25	Minimum number of sheds	qty	Data required	
1.26	Shed diameter-small	mm	Data required	
1.27	Shed diameter-large	mm	Data required	
1.28	Shed number-small	No.	Data required	
1.29	Shed number-large	No.	Data required	
1.30	Shed clearance	mm	Data required	
1.31	Shed inclination	deg	Data required	
1.32	Insulator colour		Data required	
1.33	Shed spacing to projection ratio		Data required	
1.34	Percentage of all aluminium trihydrate in composite material	%	Data required	
2.0	Corona Rings			
2.1a	Corona ring required for live side		Yes	
2.1b	Corona ring diameter for live side	mm	Data required	
2.1c	Corona ring manufacturer/ stock code		Data required	
2.2a	Corona ring required for ground side		No	
2.2b	Corona ring diameter for ground side	mm	N/A	
2.2c	Corona ring manufacturer/ stock code		N/A	

Item	Description Details for 132kV Insulator composite longrod, 210kN, 20mm, 31mm/kV	UOM	Technical Details	
			Required	Offered
				(fill if not shaded)
3.0	Arcing Horns			
3.1	Arcing horns required and fitting onto insulator at both ends		No	
3.2	Gap between arcing horns of standard set when horns fitted at both live and earth ends	mm	N/A	
4.0	Electric Field Stresses			
4.1	E-Field for the first 10 mm along the insulating surface of both live and dead-ends-average	kV/mm	≤ 0.42	
4.2	E-Field stress at end-fitting seal	kV/mm	≤ 0.35	
4.3	E-Field stress on corona ring	kV/mm	≤ 1.8	
4.4	Modelling using 3D E-field simulations and laboratory testing and test results required		Yes	
5.0	Technical Documents			
5.1	Drawings, test reports, certificates and datasheets required in electronic format (USB memory stick)		Yes	
5.2	Drawing Number for complete Unit		Data required	

NAME : (Block Capitals)

SIGNATURE : DATE:
(of person authorised to sign on behalf of the Tenderer)

Enterprise Name

10.1.4.3 INSULATOR COMPOSITE LONGROD, 275kV, 120kN, 16mm, 31mm/kV

Item	Description Details for 275kV Insulator composite longrod, 120kN, 16mm, 31mm/kV	UOM	Technical Details	
			Required	Offered
				(fill if not shaded)
1.0	Insulator			
1.1	Manufacturer of Insulator		Data required	
1.2	Place of Manufacture		Data required	
1.3	Place of Testing		Data required	
1.4	Insulator unit type number/ product code		Data required	
1.5	Insulating material		Silicone Rubber	
1.6	Attachment type		Ball and Socket	
1.7	Ball and socket diameter	mm	16	
1.8	Specified Mechanical Load (SML)	kN	≥ 120	
1.9	Coupling (section) length	mm	3070 ± 20	
1.10	Appropriate standard		IEC 61109	
1.11	Polymeric housing moulding method		Injection HTV	
1.12	Core diameter	mm	Data required	
1.13	Insulating sheath over fiberglass core thickness	mm	≥ 3	
1.14	Creepage distance	mm	≥ 9300	
1.15	End fittings- hot dip galvanizing		SAN 121	
1.16	End fitting galvanising thickness minimum local	µm	85	
1.17	End fitting galvanising thickness average	µm	100	
1.18	Lightning impulse withstand voltage	kV	≥ 1050	
1.19	Dry arcing distance (total arcing distance)	mm	≥ 2700	
1.20	Dry flashover voltage	kV	Data required	
1.21	Wet flashover voltage	kV	Data required	
1.22	Puncture voltage	kV	Data required	
1.23	Standard to which tested	Std	Data required	
1.24	Mass of single insulator only	kg	Data required	
1.25	Minimum number of sheds	qty	Data required	
1.26	Shed diameter-small	mm	Data required	
1.27	Shed diameter-large	mm	Data required	
1.28	Shed number-small	No.	Data required	
1.29	Shed number-large	No.	Data required	
1.30	Shed clearance	mm	Data required	
1.31	Shed inclination	deg	Data required	
1.32	Insulator colour		Data required	
1.33	Shed spacing to projection ratio		Data required	
1.34	Percentage of all aluminium trihydrate in composite material	%	Data required	
2.0	Corona Rings			
2.1a	Corona ring required for live side		Yes	
2.1b	Corona ring diameter for live side	mm	Data required	
2.1c	Corona ring manufacturer/ stock code		Data required	
2.2a	Corona ring required for ground side		Yes	
2.2b	Corona ring diameter for ground side	mm	Data required	
2.2c	Corona ring manufacturer/ stock code		Data required	

Item	Description Details for 275kV Insulator composite longrod, 120kN, 16mm, 31mm/kV	UOM	Technical Details	
			Required	Offered
				(fill if not shaded)
3.0	Arcing Horns			
3.1	Arcing horns required and fitting onto insulator at both ends		No	
3.2	Gap between arcing horns of standard set when horns fitted at both live and earth ends	mm	N/A	N/A
4.0	Electric Field Stresses			
4.1	E-Field for the first 10 mm along the insulating surface of both live and dead-ends-average	kV/mm	≤ 0.42	
4.2	E-Field stress at end-fitting seal	kV/mm	≤ 0.35	
4.3	E-Field stress on corona ring	kV/mm	≤ 1.8	
4.4	Modelling using 3D E-field simulations and laboratory testing and test results required		Yes	
5.0	Technical Documents			
5.1	Drawings, test reports, certificates and datasheets required in electronic format (USB memory stick)		Yes	
5.2	Drawing Number for complete Unit		Data required	

NAME : (Block Capitals)

SIGNATURE : DATE:
(of person authorised to sign on behalf of the Tenderer)

Enterprise Name

10.1.4.4 INSULATOR COMPOSITE LONGROD, 275kV, 210kN, 20mm, 31mm/kV

Item	Description Details for 275kV Insulator composite longrod, 210kN, 20mm, 31mm/kV	UOM	Technical Details	
			Required	Offered
				(fill if not shaded)
1.0	Insulator			
1.1	Manufacturer of Insulator		Data required	
1.2	Place of Manufacture		Data required	
1.3	Place of Testing		Data required	
1.4	Insulator unit type number/ product code		Data required	
1.5	Insulating material		Silicone Rubber	
1.6	Attachment type		Ball and Socket	
1.7	Ball and socket diameter	mm	20	
1.8	Specified Mechanical Load (SML	kN	≥ 210	
1.9	Coupling (section) length	mm	3070 ± 20	
1.10	Appropriate standard		IEC 61109	
1.11	Polymeric housing moulding method		Injection HTV	
1.12	Core diameter	mm	Data required	
1.13	Insulating sheath over fiberglass core thickness	mm	≥ 3	
1.14	Creepage distance	mm	≥ 9300	
1.15	End fittings- hot dip galvanizing		SAN 121	
1.16	End fitting galvanising thickness minimum local	µm	85	
1.17	End fitting galvanising thickness average	µm	100	
1.18	Lightning impulse withstand voltage	kV	≥ 1050	
1.19	Dry arcing distance (total arcing distance)	mm	≥ 2700	
1.20	Dry flashover voltage	kV	Data required	
1.21	Wet flashover voltage	kV	Data required	
1.22	Puncture voltage	kV	Data required	
1.23	Standard to which tested	Std	Data required	
1.24	Mass of single insulator only	kg	Data required	
1.25	Minimum number of sheds	qty	Data required	
1.26	Shed diameter-small	mm	Data required	
1.27	Shed diameter-large	mm	Data required	
1.28	Shed number-small	No.	Data required	
1.29	Shed number-large	No.	Data required	
1.30	Shed clearance	mm	Data required	
1.31	Shed inclination	deg	Data required	
1.32	Insulator colour		Data required	
1.33	Shed spacing to projection ratio		Data required	
1.34	Percentage of all aluminium trihydrate in composite material	%	Data required	
2.0	Corona Rings			
2.1a	Corona ring required for live side		Yes	
2.1b	Corona ring diameter for live side	mm	Data required	
2.1c	Corona ring manufacturer/ stock code		Data required	
2.2a	Corona ring required for ground side		No	
2.2b	Corona ring diameter for ground side	mm	N/A	
2.2c	Corona ring manufacturer/ stock code		N/A	

Item	Description Details for 275kV Insulator composite longrod, 210kN, 20mm, 31mm/kV	UOM	Technical Details	
			Required	Offered
				(fill if not shaded)
3.0	Arcing Horns			
3.1	Arcing horns required and fitting onto insulator at both ends		No	
3.2	Gap between arcing horns of standard set when horns fitted at both live and earth ends	mm	N/A	
4.0	Electric Field Stresses			
4.1	E-Field for the first 10 mm along the insulating surface of both live and dead-ends-average	kV/mm	≤ 0.42	
4.2	E-Field stress at end-fitting seal	kV/mm	≤ 0.35	
4.3	E-Field stress on corona ring	kV/mm	≤ 1.8	
4.4	Modelling using 3D E-field simulations and laboratory testing and test results required		Yes	
5.0	Technical Documents			
5.1	Drawings, test reports, certificates and datasheets required in electronic format (USB memory stick)		Yes	
5.2	Drawing Number for complete Unit		Data required	

NAME : (Block Capitals)

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10.1.4.5 INSULATOR COMPOSITE FOR EARTHWIRE AND OPGW, SIZE “OAK” and “ELM”, 120 kN 16 mm, CLEVIS-TONGUE STRAIGHT (INLINE) WITH ARCING HORNS

Item	Description Details for Earthwire and OPGW Insulator composite longrod 120 kN 16 mm Clevis-Tongue Straight	UOM	Technical Details	
			Required	Offered
				(fill if not shaded)
1.0	Insulator			
1.1	Manufacturer of Insulator		Data required	
1.2	Place of Manufacture		Data required	
1.3	Place of Testing		Data required	
1.4	Insulator unit type number/ product code		Data required	
1.5	Insulating material		Silicone Rubber	
1.6	Attachment type		Clevis/ Tongue Straight	
1.7	Ball and socket diameter	mm	16	
1.8	Specified Mechanical Load (SML)	kN	≥ 120	
1.9	Coupling (section) length	mm	360 ± 20	
1.10	Appropriate standard		IEC 61109	
1.11	Polymeric housing moulding method		Injection HTV	
1.12	Core diameter	mm	Data required	
1.13	Insulating sheath over fiberglass core thickness	mm	≥ 3	
1.14	Creepage distance	mm	≥ 280	
1.15	End fittings- hot dip galvanizing		SAN 121	
1.16	End fitting galvanising thickness minimum local	µm	≥ 85	
1.17	End fitting galvanising thickness average	µm	≥ 100	
1.18	Lightning impulse withstand voltage	kV	≥ 95	
1.19	Dry arcing distance (total arcing distance)	mm	≥ 125	
1.20	Dry flashover voltage	kV	Data required	
1.21	Wet flashover voltage	kV	Data required	
1.22	Puncture voltage	kV	Data required	
1.23	Standard to which tested	Std	Data required	
1.24	Mass of single insulator only	kg	Data required	
1.25	Number of sheds	qty	≥ 2	
1.26	Shed diameter-small	mm	Data required	
1.27	Shed diameter-large	mm	Data required	
1.28	Shed number-small	No.	Data required	
1.29	Shed number-large	No.	Data required	
1.30	Shed clearance	mm	Data required	
1.31	Shed inclination	deg	Data required	
1.32	Insulator colour		Data required	
1.33	Shed spacing to projection ratio		Data required	
1.34	Percentage of all aluminium trihydrate in composite material	%	Data required	
2.0	Corona Rings			
2.1a	Corona ring required for live side		N/A	
2.1b	Corona ring diameter for live side	mm	N/A	
2.1c	Corona ring manufacturer/ stock code		N/A	
2.2a	Corona ring required for ground side		N/A	
2.2b	Corona ring diameter for ground side	mm	N/A	

Item	Description Details for Earthwire and OPGW Insulator composite longrod 120 kN 16 mm Clevis-Tongue Straight	UOM	Technical Details	
			Required	Offered
				(fill if not shaded)
2.2c	Corona ring manufacturer/ stock code		N/A	
3.0	Arcing Horns			
3.1	Arcing horns required and fitting onto insulator at both ends		Yes	
3.2	Gap between arcing horns adjustable to the required specification	mm	30	
4.0	Electric Field Stresses			
4.1	E-Field for the first 10 mm along the insulating surface of both live and dead-ends-average	kV/mm	If necessary	
4.2	E-Field stress at end-fitting seal- maximum	kV/mm	If necessary	
4.3	E-Field stress on corona ring- maximum	kV/mm	If necessary	
4.4	Modelling using 3D E-field simulations and laboratory testing and test results required		If necessary	
5.0	Technical Documents			
5.1	Drawings, test reports, certificates and datasheets required in electronic format (USB memory stick)		Yes	
5.2	Drawing Number for complete Unit		Data required	

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Enterprise Name

10.1.4.6 INSULATOR COMPOSITE FOR EARTHWIRE AND OPGW, SIZE “OAK” and “ELM”, 120 kN 16 mm, CLEVIS-CLEVIS TWISTED WITH ARCING HORNS

Item	Description Details for Earthwire and OPGW Insulator composite longrod 120 kN 16 mm Clevis-Clevis Twisted	UOM	Technical Details	
			Required	Offered (fill if not shaded)
1.0	Insulator			
1.1	Manufacturer of Insulator		Data required	
1.2	Place of Manufacture		Data required	
1.3	Place of Testing		Data required	
1.4	Insulator unit type number/ product code		Data required	
1.5	Insulating material		Silicone Rubber	
1.6	Attachment type		Clevis/ Tongue Straight	
1.7	Ball and socket diameter	mm	16	
1.8	Specified Mechanical Load (SML)	kN	≥ 120	
1.9	Coupling (section) length	mm	360 ± 20	
1.10	Appropriate standard		IEC 61109	
1.11	Polymeric housing moulding method		Injection HTV	
1.12	Core diameter	mm	Data required	
1.13	Insulating sheath over fiberglass core thickness	mm	≥ 3	
1.14	Creepage distance	mm	≥ 280	
1.15	End fittings- hot dip galvanizing		SAN 121	
1.16	End fitting galvanising thickness minimum local	µm	≥ 85	
1.17	End fitting galvanising thickness average	µm	≥ 100	
1.18	Lightning impulse withstand voltage	kV	≥ 95	
1.19	Dry arcing distance (total arcing distance)	mm	≥ 125	
1.20	Dry flashover voltage	kV	Data required	
1.21	Wet flashover voltage	kV	Data required	
1.22	Puncture voltage	kV	Data required	
1.23	Standard to which tested	Std	Data required	
1.24	Mass of single insulator only	kg	Data required	
1.25	Number of sheds	qty	≥ 2	
1.26	Shed diameter-small	mm	Data required	
1.27	Shed diameter-large	mm	Data required	
1.28	Shed number-small	No.	Data required	
1.29	Shed number-large	No.	Data required	
1.30	Shed clearance	mm	Data required	
1.31	Shed inclination	deg	Data required	
1.32	Insulator colour		Data required	
1.33	Shed spacing to projection ratio		Data required	
1.34	Percentage of all aluminium trihydrate in composite material	%	Data required	
2.0	Corona Rings			
2.1a	Corona ring required for live side		N/A	
2.1b	Corona ring diameter for live side	mm	N/A	
2.1c	Corona ring manufacturer/ stock code		N/A	
2.2a	Corona ring required for ground side		N/A	
2.2b	Corona ring diameter for ground side	mm	N/A	

Item	Description Details for Earthwire and OPGW Insulator composite longrod 120 kN 16 mm Clevis-Clevis Twisted	UOM	Technical Details	
			Required	Offered
				(fill if not shaded)
2.2c	Corona ring manufacturer/ stock code		N/A	
3.0	Arcing Horns			
3.1	Arcing horns required and fitting onto insulator at both ends		Yes	
3.2	Gap between arcing horns adjustable to the required specification	mm	30	
4.0	Electric Field Stresses			
4.1	E-Field for the first 10 mm along the insulating surface of both live and dead-ends-average	kV/mm	If necessary	
4.2	E-Field stress at end-fitting seal- maximum	kV/mm	If necessary	
4.3	E-Field stress on corona ring- maximum	kV/mm	If necessary	
4.4	Modelling using 3D E-field simulations and laboratory testing and test results required		If necessary	
5.0	Technical Documents			
5.1	Drawings, test reports, certificates and datasheets required in electronic format (USB memory stick)		Yes	
5.2	Drawing Number for complete Unit		Data required	

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(of person authorised to sign on behalf of the Tenderer)

Enterprise Name

10.1.5 QUALITY OF MATERIALS FOR INSULATOR END-FITTINGS

Item	Description	UOM	Technical Details- Offered		
			STEEL	MALLEABLE CAST IRON	
				FITTINGS	CAPS
1	Tensile breaking strength	MPa			
2	Elongation on breaking	%			
3	Gauge length on specimen	mm			
4	Yield point as percentage of breaking strength	%			

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Enterprise Name

10.2 HEALTH, SAFETY AND ENVIRONMENTAL

(This Schedule shall be completed, signed and returned with the bid documents of which it forms part.)

Bidders shall state in clear and explicit terms all necessary information pertaining to the products offered.

Ref.	Issues	Items 1 to 5
1	List of all materials used in the product	
2	(a) Does the product pose any health risks to persons handling the product?	*YES/NO
	(b) If YES, state the type of protective gear required to handle the product (e.g. leather gloves, masks, etc.)	
3	(a) How should the product be stored	
	(b) What is its shelf life?	
4	(a) Are any toxic by-products produced (gaseous, solid or liquid) in the event of the product being exposed to fire or heated?	*YES/NO
	(b) If YES, specify the temperatures at which these toxic by-products are produced	
5	What percentage of the product can be recycled?	
6	State any other pertinent and relevant information relating to health, safety, and environmental issues	

Note:

If the space provided is insufficient, Bidders shall insert other relevant information after this page.

BIDDING COMPANY:

NAME:

SIGNED:

CAPACITY OF SIGNATORY:

DATE:

YYYY - MM - DD

10.3 DRAWINGS, DATASHEETS AND SAMPLES

The tenderer shall submit drawings and/or datasheets for all materials, which are offered in his bid. Samples may be requested during bid evaluation.

The schedule of material and related drawings and datasheet shall be filled in the table below and the actual drawings and datasheets shall be attached.

Standard drawing received from manufacturers and suppliers may have to be altered or marked up to ensure compliance to the technical specifications in these tender documents. This returnable schedule may be duplicated if more space is required.

Item	Description	Manufacturer	Drawing No.

Attach additional pages if more space is required

Name : Position:

Signature: Date:
(of person authorised to sign on behalf of the Tenderer)

Enterprise Name:

10.4 DELIVERY PERIODS

(This Schedule shall be completed, signed and returned with bid documents of which it forms part.)

I/We hereby undertake to deliver the goods within the following periods from date of receipt of order. Note that delivery periods to be stated in weeks:

Item	Description	Delivery Period from Date of Order	
		eThekwini Electricity's requirements	Bidder's Offer
1	Insulator composite long-rod, ball-socket, 120 kN, 16 mm, for 132 kV with corona ring	≤ 4 weeks	
2	Insulator composite long-rod, ball-socket, 210 kN, 20 mm, for 132 kV with corona ring	≤ 4 weeks	
3	Insulator composite long-rod, ball-socket, 120 kN, 16 mm, for 275 kV with corona rings at live and ground sides	≤ 4 weeks	
4	Insulator composite long-rod, ball-socket, 210 kN, 20 mm, for 275 kV with corona rings at live and ground sides	≤ 4 weeks	
5	Insulator composite long-rod, clevis-tongue straight/ inline, 120 kN, 16 mm, for Earthwire and OPGW	≤ 4 weeks	
6	Insulator composite long-rod, clevis-clevis twisted, 120 kN, 16 mm, for Earthwire and OPGW	≤ 4 weeks	

BIDDING COMPANY: _____

NAME: _____

SIGNED: _____

CAPACITY OF SIGNATORY: _____

DATE: _____

YYYY - MM - DD