# दि फ़र्टिलाईज़र्स एण्ड केमिकल्स टावनकोर लिमिटेड



# THE FERTILISERS AND CHEMICALS TRAVANCORE LIMITED

(भारत सरकार का उद्यम) / (A GOVERNMENT OF INDIA ENTERPRISE)

CORPORATE MATERIALS

PD ADMINISTRATIVE BUILDING

UDYOGAMANDAL - 683 501, KOCHI, KERALA, INDIA

GST No: 32AAACT6204C1Z2 Phone: 0484-2546778 2546629 / 2545222

निर्घ केलिए अनुरोध/REQUEST FOR QUOTATION

#### **Detailed Specification**

Enquiry:MM/172/G29809

**Contact Details** 

Name: Binduja Menon

Phone: 0484 2568253, 0484 2568204

Email ID: binduja@factltd.com

Please submit your offer for supply of the following items as per the instructions, technical specifications and other terms and conditions specified herein/ attached.

#### Note:

1. The delivery period mentioned in the BoQ is our indicative requirement. You may offer your earliest delivery period.

Please refer our above referred enquiry number in all correspondence.

| SL<br>No. | Material<br>Code | Detailed Specification/s                                     | Quantity | Unit of<br>Measure |
|-----------|------------------|--|----------|--------------------|
|           |                  | Current Transformer, 110 KV, 125/1, 0.2S with specifications |          |                    |
| 1         | 671308125        | in attached  | 7        | Set                |
|           |                  | Data Sheet No: CD-ELE-110-CT-125/1                           |          |                    |

#### SPECIAL TERMS AND CONDITIONS

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- (1) Type test certificate number is required along with offer.
- (2) Duly filled & Signed GTP (GUARANTEED TECHNICAL PARTICULARS OF CURRENT TRANSFORMER) shall be submitted by the bidder along with the offer.
- (3) Vendor shall submit General Arrangement (GA) Drawing for approval in the event of an order.
- (4) PDI is required.
- (5) Type & Routine Test certificates are required

Page: 1 of 1

### TECHNICAL SPECIFICATION FOR 110 kV, 125/1 A, 0.2S CURRENT TRANSFORMER

#### SCOPE:

This specification covers the design, manufacture, assembly, testing at the manufacturer's works, supply & delivery of oil filled current transformers of 110 KV voltage class for metering services.

#### STANDARD:

The current transformers and accessories covered by this specification shall comply with the requirement of the latest edition of the following standards unless otherwise stated in this specification

IS: 2705 (Part-I-IV): Specification for current Transformers.

IS: 4201: Application guide for current transformers.

IS: 5621/2099: Specification for Bushings/hollow insulators for alternating voltages above 1000V.

IS: 335: Specification for insulation oil for transformers and switchgears

IEC: 60044-1: Current Transformer.

#### DEVIATION:

Normally the offer should be as per Technical Specification without any deviation. But any deviation felt necessary to improve performance, efficiency and utility of equipment must be mentioned in the Deviation Schedule with reasons duly supported by documentary evidence. Such deviations suggested may or may not be accepted by FACT. Deviations not mentioned in Deviation schedule will not be considered.

#### TESTS AT FACTORY AND TEST CERTIFICATES:

- i) Each C.T. shall comply with the requirements of routine test as specified in IS: 2705 Part (1 and 2). Test shall be conducted by a NABL accredited agency and provide seal on secondary terminals.
- ii) All Routine tests at manufacturer's works on all CTs shall be carried out and Test Reports are to be submitted to FACT along with inspection call letter. Dielectric Dissipation Factor (tan  $\delta$ ) is to be measured at manufacturer's works for all CTs. The measured tan  $\delta$  values indicating sl. No. of CTs are to be submitted along with submission of inspection offer.

#### TEST REPORTS AND TYPE TESTS:

Current Transformer offered should be similar with ones on which type testing has been carried out as per relevant IS and IEC. Three sets of complete test report of all test (including Type Test of CT as well as for Silicon composite or condenser insulator), as stipulated in the relevant IS & IEC, carried out in Govt. recognized Test House or Laboratory /NABL accredited laboratory shall have to be submitted by successful bidder positively along with submission of drawings during detailed Engineering.

A Ruture

| DATA SHEET 11 |                             | 110 KV CURRENT TRANSFOR                  | MER  | CD-ELE-110-CT-125/1 |  |
|---------------|-----------------------------|--|--|---------------------|--|
| Sl.No.        | Item Description            | on                                       | Specific   | cations             |  |
| 1.1           | Ratio                       |  | 125 / 1  |                     |  |
| 1.2           | Rated Primary C             | Current (A)                              | 125  |                     |  |
| 1.3           | Rated Secondar              | y Current (A)                            | 1  |                     |  |
| 1.4           | Accuracy Class              |  | 0.2S   |                     |  |
| 1.5           | Burden                      |  | 15VA   |                     |  |
| 1.6           | Power frequency (Hz)        |  | 50   |                     |  |
| 1.7           | Туре                        |  | Oil cooled   |                     |  |
| 1.8           | Number of secondary winding |  | One  |                     |  |
| 1.9           | Extended currer             |  | 120%   |                     |  |
| 1.10          | Rated System V              | /oltage (KV)                             | 1!0  |                     |  |
| 1.11          | Highest System              |  | 123  |                     |  |
| 1.12          | Earthing                    |  | Effective earthing provisions  |                     |  |
| 1.13          | 1 min. Power Fr             | requency withstand voltage (KV rms)      | 275  | <u> </u>            |  |
| 1.14          |                             | nd test Voltage (KVp)                    | 650  |                     |  |
| 1.15          | Short time curre            | nt rating (KA/1 Sec)                     | 40   |                     |  |
| 1.16          | Type of mount               | ing                                      | Pedestal   |                     |  |
| 1.17          | Limit of temp. ri           | se of windings degree C at rated current | 55 degre   | ее С                |  |
| 1.18          | Installation                |  | Outdoor type   |                     |  |
| 1.19          | Secondary tern              | ninal box                                | SS fasteners with tamper free security sealing arrangement shall be provided for CTs |                     |  |
| 1.20          | Name plate                  |  | Stainless steel  |                     |  |
| 1.21          | External Tap o              | n Secondary Windings                     | Nil  |                     |  |
| 2             | Primary termin              | al connectors                            | Required. Suitable for wolf conductor termination                                    |                     |  |
| 3             | Operation & se              | ervice manuals                           | Required   |                     |  |
| 4             | Test                        |  | As per IS: 2705 in NABL accredited test facility                                     |                     |  |
| 5             | Type of Meteri              | ng System                                | 3 Phase, 4 Wire  |                     |  |
| 6             | CTs of Single               | ratio dedicated for metering             | Require  | ed                  |  |

Butterest.

# GUARANTEED TECHNICAL PARTICULARS OF CURRENT TRANSFORMER

(To be filled in and signed by the Bidder)

| a) Name of Manufacturer b) Type & Model of the Manufacturer c) Conforming Standards d) Date of Last Type Test e) Dead Tank or Live Tank Construction f) Diameter of High Voltage Stud (mm) x Length (mm) g) Total Height of the CT h) Total Weight of the CT i) Material Used in Primary Winding j) Material Used in Primary Winding k) Rated voltage (KV) 2 CT INSULATION LEVEL a) 1.2/50 micro second Impulse withstand voltage (dry) on primary winding (KV peak) b) One minute power frequency withstand voltage(Dry) on primary winding (KV rms) c) One minute power frequency withstand voltage(Wet) on primary winding (KV rms) d) One minute power frequency withstand test voltage in secondary winding (KV rms)  CT CURRENT a) Rated primary current (Amp) b) Rated secondary current (Amp) c) Extended current rating (Amp) d) Short time thermal rating of primary current for I sec and 3 sec e) Rated dynamic current of primary (KAp) f) Rated continuous thermal current (KA rms) g) Temperature rise at rated continuous thermal current over 50oC Ambient Temp. (degree C) 4 CT Bushing a) Minimum creepage distance (mm) b) Whether CT bushing is hermetically sealed or not CT: Details of Core a) Current ratio b) Accuracy Class/ALF/ISF |          |           | CT . CENEDAL   |
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| b) Whether CT bushing is hermetically sealed or not  5   | 4        |           | CT Bushing   |
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| 5 CT :Details of Core a) Current ratio b) Accuracy Class/ALF/ISF   |          | b)        | Whether CT bushing is hermetically sealed or not       |
| b) Accuracy Class/ALF/ISF  | 5        |           | CT :Details of Core                                    |
|  |          | a)        | Current ratio  |
|  |          | b)        | Accuracy Class/ALF/ISF                                 |
| o) isintorice at highest fatio   |          | c)        | Kn/Ie/RCT at highest ratio                             |

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## **PRE-QUALIFICATION CRITERIA**

#### TENDER No. MM/172/G29809 Dated 24-07-2024

| SI<br>No | Pre-Qualification Criteria (PQC) Conditions   | Documents to be submitted along with bid  | Remarks                           | Bidders compliance |
|----------|---|---|-----------------------------------|--------------------|
| 1        | The Bidder shall be Original Equipment Manufacturer (OEM) or their authorized dealer/ Channel Partner/ franchise of EHT current transformers.   | A) In case of OEM, selfdeclaration along with details of manufacturing facility shall be submitted.  B) Quotation from dealers/channel partners/franchise shall accompany an authorization letter from the Original Equipment Manufacturer (OEM) for quoting. | Relevant<br>documents<br>required |                    |
| 2        | The bidder shall have supplied at least ONE current transformer of 110 kV grade or above in any substations in India during the past seven years ending on the enquiry date.  | A) Copies of relevant Purchase Orders or work orders.  AND B) Copies of documents such as tax invoice or completion certificate from user.  | Relevant<br>documents<br>required |                    |
| 4        | <ul> <li>a) Average annual turnover of the bidder for the last three financial years ending on 31-03-2023 shall be at least Rs. 33/- Lakhs or above and</li> <li>b) Annual turnover for each year shall be at least Rs. 5 /- lakhs or above during the last three financial years ending on 31-03-2023</li> </ul> | Self-attested copies of audited<br>financial statements (Profit &<br>Loss Account and Balance Sheet)<br>for the last three financial years<br>ending on 31-03-2023  | Relevant<br>documents<br>required |                    |

#### NOTE: -

- 1) All the documents submitted in proof of the PQ criteria shall be attested by the authorized signatory of the bidder. FACT shall be at liberty to verify the data / documents s submitted by the Bidders with clients / users.
- 2) Pre-Qualified bids will only be considered for Technical Evaluation. Technically and commercially acceptable Bids will only be considered for Price Bid opening.
- 3) Submission of authentic documents for meeting the above technical and financial criteria is the prime responsibility of the Bidder. Wherever FACT has concern or apprehension regarding the authenticity/ correctness of any document, FACT reserves the right of getting the documents cross verified from the document issuing authority.
- 4) In case the bidder is submitting FACT P.O as testimonials for meeting PQ criteria, the bidder needs to mention only the P.O. No. Document submission is not mandatory in such cases.
- 5) IMPORTANT: In case of ambiguity or incomplete or non submission of required relevant documents along with bid, FACT reserves the right, at its option, to reject the Bidders Bid without assigning any reason and without notice.



# **COMPLIANCE STATEMENT**

| SI.<br>No. | Terms   | Bidder<br>confirmation |
|------------|---|------------------------|
| 1          | Type test certificate number is required along with offer.  | Committation           |
| 2          | Duly filled & Signed GTP (GUARANTEED TECHNICAL PARTICULARS OF CURRENT TRANSFORMER) shall be submitted by the bidder along with the offer.   |                        |
| 3          | Vendor shall submit General Arrangement (GA) Drawing for approval in the event of an order.   |                        |
| 4          | PDI is required.  |                        |
| 5          | Type & Routine Test certificates are required   |                        |
| 6          | Please mention shortest possible delivery period.   |                        |
| 7          | Please confirm : Price Basis – FOR FACT Stores (as per Gem T & C)   |                        |
| 8          | Please confirm : Taxes and Duties - The Price offered in GEM is all inclusive of TAX. (as per Gem T & C)  |                        |
| 9          | Please confirm: Payment Terms: 100% payment will be released within 10 days of the issue of consignee receipt-cum-acceptance certificate (CRAC) and on-line submission of bills as per GEM terms and conditions. (as per Gem T & C)   |                        |
| 10         | Please confirm: Liquidated Damages: As per GeM – "@ 0.5% of the contract value of delayed quantity per week or part of the week of delayed period as pre-estimated damages not exceeding 10% of the contract value of delayed quantity without any controversy/dispute of any sort whatsoever" (as per GeM T & C) |                        |