

Government of Kerala
 Department of Electrical Inspectorate
Office of the Chief Electrical Inspector
 Housing Board Buildings, Shanthi Nagar
 Thiruvananthapuram 695 001
 Phone: 0471 2331104 , 0471 2331159
 Email : cei@ceikerala.gov.in



An IS 15700 : 2018 Certified Departm

No. CEI/13064/2022-G1

Date:16-12-2022

The Chief Electrical Inspector,
 Office of the Chief Electrical Inspector
 Housing Board Buildings,
 Santhi Nagar, Thiruvananthapuram 695 001.
 Phone No. 0471 2331159.

Re-tender No. 05 / 2022 - 2023 / CEI

Sl. No.	Name of work	Quantity
1	5 kV Insulation Tester	1 Number

Tender Fee	Rs. 1000/-
Starting date of online submission of eTender	17-12-2022
Last date and time of online submission of eTender	03.01.23 at 1.00 pm
Date of opening of e_Tender	05.01.23 at 1.30 pm
E.M.D.	Rs. 12500 /-
Website	www.etenders.kerala.gov.in

Chief Electrical Inspector.

ief Electrical Inspector to Government of Kerala, Housing
 for details
www.ceikerala.gov.in, www.etenders.kerala.gov.in

Re-tender No. 05 / 2022 - 2023 / CEI
5 kV Insulation Tester

1	For the supply of	5 kV Insulation Tester
2	Quantity	One number
3	Starting date of online submission of eTender	17-12-2022
4	Last date and time of online submission of eTender	03.01.23 at 1.00 pm
5	Date of opening of e-Tender	05.01.23 at 1.30 pm
6	Earnest Money Deposit	Rs. 12500 /-
7	Address of the Purchasing Authority	The Chief Electrical Inspector to Government of Kerala Housing Board Buildings, Santhi Nagar, Thiruvananthapuram - 695 001.
8	Method of submission of Tender	Tender should be submitted Online in www.etenders.kerala.gov.in
9	Tender Fee	Rs 1000/-

(Sd/-)

Chief Electrical Inspector

Re-tender No. 05 / 2022 – 2023 / CEI
5 kV Insulation Tester

Section – I
Earnest Money Deposit

1. Tenderer should pay the specified amount towards Earnest Money Deposit as follows:

Earnest Money Deposit: Rs. 12500/-

2. Earnest money deposit may be accepted only by RTGS/NEFT mode only.
3. The EMD will not carry any interest.
4. The Earnest Money Deposit will be refunded to the unsuccessful bidders

(Sd/-)

Chief Electrical Inspector

Note: Under e-procurement system the tender submission fees and earnest money deposit will be through online only. Organizations such as MSMEs are entitled to statutory exemptions.

**Re-tender No. 05 / 2022 – 2023 / CEI
5 kV Insulation Tester**

**Section - II
Bid Qualification Requirements (BQR)**

The Bidders shall become eligible to bid on satisfying the following Bid Qualification Requirements and on production of the required documentary evidence along with tender.

–

- The bid shall be submitted by the manufacturer having manufacturing facility / or their branch office in India either directly or through their authorised dealers with 3-year dealership with the firm.
- The Department will qualify those firms/bidders who are considered most suitable for the supply under question. The selection will take into account the firm's/ bidders relevant experience in the manufacture and the supply of the tendered item.
- The bidder should be in a position to assume, on a single point responsibility basis, the full obligation and responsibility for supplying the materials within the specified time schedule.
- Firms offering the full quantity of each items mentioned in the tender alone will be considered. Bidders who are quoting part quantity will not be qualified.
- The manufacturer must have ISO certification and have at least 5 years of experience in design and manufacturing of 5kV insulation tester.
- Tenderers shall submit particulars of similar equipments supplied by them to some of the important customers in India or Abroad especially in tropical regions with full address of the customers, model number and supplied with supply order date and number. Preference will be given to the manufacturer having his own organization or authorised dealer of long standing possessing suitable technical and installation experience.
- The bidder should not have been Black Listed (De-barred from quoting further tenders) on the ground of poor performance/ poor supply records from any Indian utility/ test house.
- Performance Certificate from at least two firms supplied stating satisfactorily functioning without any trouble.

OTHER SPECIAL CONDITIONS

1. The equipment's are liable to be rejected if they do not conform to sufficient standards of workmanship, robustness of construction and of stability and reliability of operation as judged by the Chief Electrical Inspector.
2. Manufactures Test Certificates will have to be furnished, in the case of equipments / instruments.
3. Detailed and complete specifications of all the equipments quoted should be furnished along with the tender schedule. Incomplete details shall liable to be rejected.
4. Any further information other than these contained in the offer, regarding specifications of the item quoted will have to be furnished, if called for.
5. All instruments / components/ equipment should conform to the relevant Indian Standards Specification or in their absence, to IEC Standards specifications.
6. The rates quoted should remain firm so as to cover the period required for the supply of the goods in good condition except for the changes in the rate of GST that may be effected by Government.
7. The goods should be supplied normally within 30 days from the date of placing firm orders. In the case of this is not possible the time required to complete the supply should be clearly indicated in the tender.
8. Calibration certificate from National/International Accredited Laboratory with traceability of the offered model shall be furnished along with the tender.
9. Chief Electrical Inspector reserves right to withdraw tender without any further notice
10. Those tenderer without sufficient prescribed documents, shall be rejected summarily from this tender.

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Instructions to e-Tenderers

Name of equipment	5kV Insulation Tester
Quantity	1 no.
Tender System adopted	E-procurement

e-Tenders in Two Part System

1. Technical & Commercial bid
2. Price bid

In accordance with the attached Commercial terms and Technical Specifications will be received for and on behalf of Chief Electrical Inspector to Government of Kerala. All the e- tenders shall be prepared and submitted strictly in accordance with the instructions set forth herein. e -Tender Documents should be digitally signed and should be submitted by the e- tenderer along with his offer. Otherwise the offer will be liable for rejection.

- The e-Tenderers who do not fulfil the “bid qualification requirement” as per Section – II need not participate in the e-Tender. Offers not satisfying this “bid qualification requirements” will not be considered and will be summarily rejected

Two Part Tender;

The e-Tenders shall be in Two Part - Open Tender System as detailed below.

1. Technical Bid
2. Price Bid

Technical Bid shall contain:

- Unpriced Bid (i.e. Commercial & Technical Bid without Price)
- Any other information called for in the Specification other than Price

Price Bid shall contain:

- (a) Price Bid, only price to be quoted

e-Tender shall consist of :

- The Earnest Money Deposit ,Cost of tender form shall be made online through e tender portal

- Technical Bid
- Price Bid

Upon successful verification of the fulfilment of the requirement of Earnest Money Deposit, the **Technical Bid** containing Unpriced Bid i.e.; Commercial Bid with Technical Terms except Price will be opened on the same day in respect of eligible tenderers satisfying the EMD requirements. If any of the bidders indicate price in **Technical Bid**, the bid will not be read out and will be rejected.

Opening of Price Bids:

- **On the due date of opening, only Technical Bid of the offer will be opened**, but will be authenticated in the **Technical Bid** by the officers authorised to open the Bids. **Price Bid** so authenticated will be kept under the safe custody of the empowered officer to open the tender. Price Bid will be opened later, the date of which will be intimated to the tenders at a later date. For the tenders who have fulfilled the 'Bid Qualification Requirements' **only will be opened on a subsequent date by e-Tendering process through NIC portal.**

The Chief Electrical Inspector, Thiruvananthapuram will not be responsible for any delay in receipt of the e-Tender offer.

- e-Tender received after the specified time and date will be summarily rejected
- e-Tenders not submitted in the appropriate forms, or if they are not complete in all respects, such e-Tenders will be rejected
- Telex / Fax or Telegraphic offers will not be entertained and will be rejected
- Any offer received by the purchaser after the due date and time specified for submission of the e-Tender offer will be declared late, rejected and returned unopened to the tenderer.
- No offer shall be withdrawn by the Tenderer in the interval between the deadline for submission and the expiry of the period of validity specified / extended validity of the e-Tender offer.
- The bidder should be original manufacturer/sole authorized dealer/accredited representative of manufacturer of the tendered item. In case of dealers/authorized representative, an authorization Letter for quoting in this tender with mentioned e-Tender No. shall be obtained from original manufacturer and submitted along with this bid.
- The Tenderers are requested to furnish the exact location of their factories with detailed postal address and pin code, telephone and Fax Numbers etc. in their tenders so as to arrange inspection by the Department, if considered necessary.

Destinations – Where Materials are required:

The prices quoted should be on destination basis for delivery anywhere in the State of Kerala under

the jurisdiction of Chief Electrical Inspector.

Validity

The e-Tender offer shall be kept valid for acceptance for period of **180** days from the date of opening of offers. The offers with lower validity period are liable for rejection

Further, the tenderer shall agree to extend the validity of the Bids without altering the substance and prices of their Bid for further periods, if any, required.

Deviations:

The offers of the Tenderers with Deviations in Commercial terms and Technical Terms of the Tender Document are liable for rejection.

Tender Document:

“All the intending Tenderers are requested that in the event of the documents furnished with the offer being found to be bogus or the documents contain false particulars the EMD paid by such Tenders will be forfeited in addition to blacklisting them for future tenders”.

TECHNICAL SPECIFICATION FOR 5kv insulation tester

1. Details of 5 kV Insulation Tester

Measurement parameters	Insulation Resistance, Timed Insulation Resistance Test, Leakage Current, Capacitance, Automatic calculation of Dielectric Absorption (DAR) and Polarization Index (PI) with no additional setup
Preset Test voltages	250V, 500V, 1000V, 2500V & 5000V
Manual Voltage Set Option	250V - 5000V in steps of max 50V
Insulation Resistance Measurement Range	50k Ω to 10T Ω
Insulation Resistance Measurement Accuracy	$\pm 5\%$ to 1 T Ω , $\pm 20\%$ to 10 T Ω
Short circuit current	3mA
Current measurement range	0.1 nA to 6 mA
Current measurement Accuracy	$\pm 5\%$ ± 0.2 nA at all voltages
Capacitance range	10 nF to 25 μ F
Capacitance accuracy	$\pm 10\%$ ± 5 nF
Capacitor charge time	<3 s/ μ F at 3 mA to 5 kV
Capacitor discharge	< 5025V0 ms/ μ F to discharge from 5000 V to

Timer range:	Up to 99 minutes, 15 second minimum setting
Display	D Baigckitalilgwhit.h Analogue Bar Graph with
EMC	Shall meet the requirements of IEC61326-1

- The Insulation Tester shall have a Guard terminal and the Guard terminal should guard out parallel leakage resistance down to 250 k Ω with a maximum resistance error of 1% error with a 100 M Ω load.
- The Insulation Tester shall display the actual applied Voltage during an Insulation Resistance test.
- The Insulation Resistance Tester shall have inbuilt Li-ion rechargeable battery and inbuilt charger. It shall be possible to carry out Insulation Resistance Test even with a completely drained battery by powering up from the mains (230V AC,50Hz). It shall be possible to charge a fully discharged battery to full charge in less than 3 hours.
- Weight of the insulation tester is below 6kg.
- Test leads (L,E,G) should be minimum of 10 meter length.

2.0 SOFTWARE:

The 5 kV Insulation Tester shall be supplied along with necessary software without any extra cost. The software shall have facility to generate the test report for individual testing and summary report of all test reports.

3.0 ACCESSORIES:

- i) Sufficient number of suitable cables, connectors and accessories
- ii) One set of 3 Leads shall be supplied along with the insulation tester. The lead set shall be doubly insulated and confirm to the safety requirements. The leads shall be colour coded with Red, Black & Blue. The minimum length of each cable shall be 3m.
- iii) Operating Manual.

4.0 SPARES:

- i). One set of cables and connectors shall be provided

5.0 NABL CERTIFICATE:

The calibration certificate from NABL accredited Lab or equivalent, traceable to National / International standards of the offered model with a validity of two years required. The calibration points should cover all modes and entire range.

6.0 GUARANTEE:

The 5 kV Insulation Tester should be guaranteed for performance for a period of **36 Months** from the date of commissioning or **40 Months** from the date of receipt in stores, whichever

date is earlier.

7.0 AFTER SALES SUPPORT AND TRAINING:

The supplier shall arrange to provide free training for use of 5 kV Insulation Tester. The supplier shall provide competent and timely after sales service support.

8.0 DEMONSTRATION:

The 5 kV Insulation Tester along with PC software and all necessary accessories as per specification shall be demonstrated within 15 days from the intimation required by purchaser to prove the capability and functionality of offered equipment.

9.0 INSPECTION:

The inspection may be carried out by the purchaser's representative before dispatch. The manufacturer shall grant free access to the purchaser's representative at a reasonable time, when the work is in progress. All acceptance tests and inspection shall be done at the place of the manufacturer unless otherwise especially agreed upon by the Bidder and Purchaser at the time of purchase.

10.0 PACKING AND FORWARDING:

The equipment shall be packed suitably for transport to withstand handling during transport. The supplier shall be responsible for any damage to the equipment during transit due to improper and inadequate packing.

11.0 DOCUMENTATION:

5 kV insulation tester shall be supplied along with operating manual and Factory Test Report. The calibration certificate from NABL accredited Lab or equivalent, traceable to National / International standards, shall be supplied along with each test system.

12.0 ANNUAL MAINTANANCE CONTRACT

Annual maintenance cost shall also be furnished in the tender to continue the supplied equipment after the expiry of the warranty / guarantee.

13.0 PENALTY

- The time and the date for delivery of the stores stipulated in the acceptance of tender shall be deemed to be of the essence of the contract, and delivery must be completed not later than the dates specified. If the supplier is unable to complete the supply within the stipulated delivery period for which the supplier is responsible, the supplier is required to request for extension of delivery period. If the officer is satisfied that a reasonable ground for an extension of time exists, and if such an extension is in the interests of Government, he may allow such extension, provided he is competent to do so. In case the reasons stated by the firm are not acceptable in public interest, the purchaser shall without prejudice to its other remedies under the contract, deduct from the

It is hereby confirmed that except for deviations mentioned above, the offer conforms to the Technical & Commercial Specifications of this Bid Document.

Place :	Signature of the Bidder
	Business address:
Date :	

Note:-Use the format to furnish the data and attach in PDF Format in **Technical Bid**