

NATIONAL POWER TRAINING INSTITUTE,
(Under the Ministry of Power, Govt. of India),
Southern Region,
Block-14, Neyveli 607 803

TENDER DOCUMENTS

Supply, Installation, Commissioning & Testing of
**10KV Heavy duty Battery/Motor Operated
Insulation Resistance Tester**
for Electrical Laboratory at NPTI (SR), Neyveli

NATIONAL POWER TRAINING INSTITUTE,
(Under the Ministry of Power, Govt. of India),
Southern Region,
Block-14, Neyveli 607 803

No.NPTI (SR)/NEY/STR/2009-2010/

Dated: .08.2009

NOTICE INVITING TENDER

Sealed tenders are hereby invited by the Principal Director, National Power Training Institute (Under the Ministry of Power, Govt. of India) for the work / purchase as per schedule, specifications and as per the terms and conditions enclosed herewith from the authorized dealers / distributors / manufacturer of branded suppliers.

1. Name of work : Supply, Installation, Commissioning & Testing of 10KV Heavy duty Battery/Motor Operated Insulation Resistance Tester for Electrical Laboratory at NPTI (SR), Neyveli
2. Cost of Tender Form : Rs.100/-
3. Estimated cost : Rs.3,00,000/-
4. Earnest Money : Rs.6,000/-
5. Last date of receipt of tender : 5th October 2009 up to 15.00Hrs.
6. Date of opening the tender : 7th October 2009 at 15.00 Hrs
7. Time of completion of job : 60 Days

The offer shall remain open for at least 90 days. Earnest money shall be accepted only in the form of demand draft drawn in favour of the NPTI (SR), Neyveli.

Sd/-
PRINCIPAL DIRECTOR

NOTICE INVITING TENDER

Important instructions: Terms & Conditions

Bid should be in two parts, a) Technical Bid, b) Price Bid in separate sealed envelopes. Both Bids envelope to be placed in a another single sealed envelope super-scribing tender No. Dt. The cover should be addressed to The Principal Director, National Power Training Institute, Southern Region, Block-14, Neyveli - 607 803

Sealed Bids in two envelopes are to be submitted as follows:

a. Technical Bid: This Envelope namely Technical Bid should contain only technical specification. This cover should be super-scribed **TECHNICAL BID** for “**Supply, Installation, Commissioning & Testing of 10KV Heavy duty battery/motor operated Insulation Resistance Tester**” The Technical Bid should contain the following:

1. EMD in the form of Demand Draft drawn in favour of NPTI (SR) payable at Neyveli.
2. If the tender forms are downloaded from the internet, the Demand Draft of Rs.100/- in favour of NPTI (SR) Payable at Neyveli should be enclosed along with the Technical Bid.
3. Income tax clearance certificate of last three years
4. Warranty for three years
5. Delivery period is to be indicated and maximum allowable period is 60 days from the placement of orders.
6. Validity period to be indicated and should be minimum 90 days from the date of opening of the tenders
7. Agreement towards the payment terms of NPTI
8. The tender must contain all the relevant technical specifications of the equipments as per the tender document along with the relevant technical literatures/brochures/pamphlets/drawings and alternate proposal. All the documents, technical specifications should be signed by authorized bidders with seal of the firm and date.
9. The copy of the tender documents along with its terms and conditions to be signed by the bidder in each page and enclose along with Technical bid as a token of acceptance of terms and conditions.

b. Price Bid: Second envelope namely Price Bid should contain only the price part and other information given below. This cover should be super-scribed Price Bid for “**Supply, Installation, Commissioning & Testing of 10KV Heavy duty battery/motor operated Insulation Resistance Tester**”.

1. Details of Make of equipment, their rates should be included in the original price bid form
2. The price must be firm and final till the delivery of equipment inclusive of all taxes, Govt. levies and other duties on FOR destination basis.
3. The price must be quoted in figures and words.

General Terms and Conditions:

01. Delivery should be F.O.R destination basis i.e. NPTI (SR), Neyveli

02. Part supply is not allowed.

03. 90% of payment will be made on successful supply, installation, commissioning and Testing. Balance 10% of payment will be kept as Performance Guarantee for the period of warranty after installation, commissioning and Testing or against the Bank Guarantee for the period of warranty.

04. Offer should include freight, packing, forwarding, delivery, warranty, Installation and Commissioning charges.

05. If the last date for receipt of the tenders happens to be a holiday, the next working day shall be the due date.

06. In the event of successful bidder's failure to deliver the material as per order within the stipulated delivery period, the order is liable for cancellation and EMD will be forfeited.

07. Postal delay or loss of tender in transit will not be responsibility of this office.

08. The tender document is not transferable

09. The tenderers are advised to go through the tender documents, terms and conditions thoroughly and must sign all the pages and submit along with technical bid.

10. In case of any dispute, the decision of Principal Director will be binding and final

11. NPTI will not be responsible for transit damages.

12. NPTI is the training institution under Ministry of Power, Govt. of India, if any discount applicable for educational / training institution, the same may be indicated in your Price Bid.

13. NPTI reserves the right to cancel the tender without assigning any reason and to increase or decrease the quantity of any items mentioned overleaf.

14. The suppliers shall be responsible for the safety of the material during transit and loading and unloading. This office does not own any responsibility if the material is damaged during transit, erection, commissioning and testing.

15. All equipment should be delivered in fully packed conditions and opened in the presence of NPTI representative.

16. Installation, Testing & Commissioning- The job includes supply, installation, testing and commissioning at site.

17. **Warranty**- the warranty for all equipments supplied shall be for a minimum period of **three** years from the date of commissioning. All the defects/defective parts should be rectified and / or replaced at the suppliers cost during the warranty period and regular maintenance to be carried out during warranty period.

18. The bidder at the request of NPTI shall arrange the demonstration and working of the equipment he has offered in this proposal. The demonstration shall be arranged at the cost of bidder.

19. Maximum period including delivery, installation, testing and commissioning shall be 60 days from the date of placement of order.

20. The work shall be executed as per the direction and satisfaction of the Engineer in-charge. Decision of the Engineer in-charge will be final and binding in case of any extra work.

21. The bidder should follow all safety measures at site and ensure that no damage is caused at the site. If any damage occurs as a result of the work, the bidder will restore the same or the cost of the same will be realized from the bill.

22. The supplier shall be responsible for the safety of his erection and commissioning team manpower.

23. The supplier has to make his own arrangement for the ordinary / special tools, machinery, and other consumables required for successful completion of Erection and Commissioning and testing.

24. Electrical work shall be carried out electrical license holders only.

25. The supplier shall submit the final bill in triplicate within three month of installation, commission and testing of work.

PRICE BID FORM

Quotation No. _____

Date: _____

To
The Principal Director,
National Power Training Institute,
Block-14,
NEYVELI-607 803.

Dear Sirs,

I accept your Terms & Conditions as per your Tender No.NPTI (SR)/STR/2009-10/
Dt. _____ and quote the following prices.

1.	Name of the Item & Quantity	
2.	Detailed Specification of the Item	
3.	a. Price which includes Guarantee / Warranty period, Installing & Commissioning, Sales Tax & Surcharge, Freight & Forwarding and Delivery charges	Rs.
	b. Warranty for	Years
	c. Discount if any	
4.	VAT & Surcharge if any	
5.	Delivery Period	
6.	Other provisions or facilities over and above the minimum specification	
7.	List of Enclosures	
 Signature of the Authorised Person with Date Full Address of the Firm with seal		

TECHNICAL SPECIFICATIONS

Sl. No.	Description	Quantity
1.	Supply, Installation, Commissioning & Testing of 10KV Heavy duty Battery/Motor Operated Insulation Resistance Tester for Automatic P.I., DAR, Build in Timer, Step Voltage and Dielectric Discharge Test as per the specifications given below:	01 No.

FEATURES & SPECIFICATIONS

✓ Voltage selection – 50V to 1KV in 10V steps, 1KV to 10KV in 25 V steps
✓ Instrument should have provision to operate in both modes i.e. (i) In AC 230 V \pm 20% mains (ii) Internal rechargeable Battery mode
✓ Battery backup should be at least 4 hours continuous at 10kV
✓ Rated resistance 10 K Ω to 15 T Ω
✓ Instrument should display direct reading of voltage across the test piece when the test is in progress
✓ Instrument should display leakage measurement
✓ Short Circuit current minimum 3 mA
✓ Interference Rejection 1mA r.m.s per KV test voltage to a maximum 2mA r.m.s
✓ Guard terminal should have at least 2% error guarding 500K Ω leakage with 100M Ω load
✓ Insulation Resistance Measurement should be in Digital and Analogue with backlit display

MEASUREMENT RANGE

Insulation resistance range	
Digital display	10 K Ω to 35 T Ω
Analogue display	100K Ω to 1T Ω
Current Measurement	0.01 nA to \pm 5 mA
Capacitance Measurement	10nF to 50 μ F (above 500V)
Test time should be selectable from	1 second to 99 minutes
Capacitor charging time	should be \leq 5.0 Seconds per μ F at 3mA
Capacitor discharge time	should be \leq 5.0 Seconds per μ F to discharge from 5000V to 50 V
Voltage range	50V to 10000V DC
Voltage warning display	High voltage warning display when input voltage across the terminal is above 50V.
Mains input voltage	85-260 V, 50Hz

TYPE	
The instrument should perform automatic tests and measure Insulation Resistance, current, capacitance, Polarization Index, timer Step voltage tests, DAR & Dielectric Discharge.	
Suitable port and software for download of digital data to a computer and directly to the Printer should be possible. Real Time down load to Computer should be possible	
Digital and software filter should be available in the instrument to remove induced noise	
Operating temperature	10°C to 55°C
Storage Temperature	20°C to 70°C
Data storage	800 readings with RS232 & USB downloads capability to store test results for trending analysis

SAFETY	
Compliance with EN61010-1: 2001CATIV 6	
Should Conform to IEC 1010-1 (1995)	
ENVIRONMENTAL PROTECTION Instrument should be rated to IP65	
EMC Meets IEC61326 including amendment No.1	
Instrument should have compliance to following Safety standards IEC1010-1 (1995), EN61010 (1995) to installation category III, 300 V, phase to earth, 500 V phase to phase	
Instrument should be supplied with 15mtr HV test leads for testing transformers bushings	

ACCESSORIES	
Watertight, shockproof hard carrying case	
Supply cable	
Connecting to objects, leads	
Software for connecting to PC	
Optical Cable for USB	
User Manual one Hard copy and one soft copy	

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CHECK LIST & CRITICAL DATES

Before submit your quotation please confirm the following:

1. Sealed quotation in 2 parts - Technical & Price Bid in separate covers
2. Superscribe in the outer cover “Tender for _____” and Tender Enquiry No. _____ due on _____
3. DD for EMD amount of Rs.
4. Technical Literature / pamphlet should be enclosed along with the Technical Bid
5. Enclose the list of clients / customers
6. Enclose authorization letter in case representing their principals
7. Endorse your signature in the tender

CRITICAL DATES

The NPTI reserves the right to amend the dates shown below.

The critical dates are as follows:

Date of release of the tender	: 21.08.2009
Venue	: NPTI (SR), Neyveli
Last Date for Bid submission	: 5 th October 2009 up to 15.00Hrs.
Technical Bid opening	: 7 th October 2009 at 15.00 Hrs
Price Bid Opening	: Will be intimated to the qualified bidders.