

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
**Capacitor and Tan Delta Measuring Bridge (both
solid/liquid) and Transformer oil Resistivity Measurement**
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 Capacitor and Tan Delta Measuring Bridge (both solid/liquid) and Transformer oil Resistivity Measurement for Electrical lab at NPTI.
2. Cost of Tender Form : Rs.500/-
3. Estimated cost : Rs.10.00 lakhs
4. Earnest Money : Rs.20,000/-
5. Last date of receipt of tender : 5th October 2009 up to 15.00Hrs.
6. Date of opening the tender : 7th October 2009 at 10.00 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 Capacitor and Tan Delta Measuring Bridge (both solid/liquid) and Transformer oil Resistivity Measurement”** 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.500/- 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 Capacitor and Tan Delta Measuring Bridge (both solid/liquid) and Transformer oil Resistivity Measurement”**.

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 Capacitor and Tan Delta Measuring Bridge (both solid/liquid) and Transformer oil Resistivity Measurement as per the specifications given below:	01 No.

FEATURES & SPECIFICATIONS

✓ 10 kV Automated Insulation Power Factor Test Set
✓ With Integrated software package for automated control inbuilt with display unit which can be interfaced with laptop with printer
✓ Portable unit for field use and designed to work under high interference up to 765 kV without affecting the accuracy with suitable filters.
✓ have USB drive support with minimum two USB ports
✓ Test set is to provide a comprehensive AC insulation diagnostic.
✓ The measurements are performed automatically and results shall be displayed on LCD. Measured quantities shall include voltage, current, power loss, power factor and capacitance
✓ built-in self-diagnostic and calibration check
✓ Oil Test Cell for testing insulating fluids up to 10 kV.
✓ Capable of measuring the capacitor and Tan Delta both solid/liquid and provision for measurement of transformer oil resistivity

Input	220 V \pm 10%, 50 Hz
Output	0 to 12 kV, continuously adjustable, 100mA continuous
Power supply capacity	Maximum 200mA. Power supply capacity can be expanded to 4 Amps
Accuracy :	
Voltage	(RMS) \pm 1% of reading
Current	(RMS) \pm 1% of reading
Capacitance	\pm 0.5% of reading + 2 pF
Measuring ranges:	
Voltage	250 V to 12 kV
Current	0 to 5 Amps, in steps of 1 μ A
Capacitance	1 pF to 1.1 μ F, in steps of 0.01 pF
Power factor	0 to 90%, in steps of 0.01%
Watt-loss	0 to 2 kW, actual power, 0 to 100 kW when corrected to 10 kV equivalents
Power Factor	\pm 2% of reading
Watt-loss	\pm 2% of reading
ACCESSORIES:	
Optional capacitor kit shall include carry case, TTR capacitor, two reference capacitors, and two connectors	
User Manual -one hard copy and one soft copy	
SAFETY:	

✓ The test set shall meet the requirements of IEC-1010
✓ The test set shall also meet the shock and vibration requirements of the ASTM D999.75 standard.
✓ Operating Temperature range: 0 to 50° C
✓ Storage: Room Temp

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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 10.00 Hrs
Price Bid Opening	: Will be intimated to the qualified bidders