



## Bharat Heavy Electricals Limited

(A Govt. Of India Undertaking)

Power Sector, Eastern Region

Bhel Bhawan , Plot No. Dj-9/1 , Secotr li , Salt Lake City , Kolkata  
WEST BENGAL, INDIA

Phone : 033-23216130-31,033-23216130 FAX : 033-23211960

### Tender Enquiry

**Sub : Tender document for Supply, Installation, Demonstration & Training of Two no. DIGITAL INSULATION TESTER at BHEL: PSER: KOLKATA.**

Dear Sirs,

Sealed offers are invited by the undersigned on behalf of BHARAT HEAVY ELECTRICALS LIMITED for the subject job. Please find enclosed tender documents as per following details:

Tender document no: **PSER:PUR:TSX:031(II):024** Dated **16/062008** comprising of following :

Part – A (I) & (II)	Pre-Qualification Criteria
Part – B (I) & (II)	General Conditions of contract (GCC) & Special Conditions of Contract (SCC)
Part – C	Technical Specification
Part – D	Price Schedule
Part – E	No Deviation Format.

**1.0. Last date of submission of offer is 30/06/2008 (11-00 Hrs). Techno-commercial bid shall be opened on 01/07/2008 (15.00 Hours).**

2.0 The offers shall be sent in sealed envelopes in the manner prescribed below :

- Cover - 1 : Containing 'Techno-commercial bid' superscribing "COVER-I, TECHNO-COMMERCIAL BID, Name of the Job , Tender document no and & due date", No Deviation Certificate Sealed and Signed.
- Cover - 2 : Containing 'Price bid' superscribing "COVER-II, PRICE BID, **Name of the Job/item**, Tender document no and due date".
- Cover - 3 : Containing documents in support of PQ criteria superscribing "COVER NO.-III, PRE-QUALIFICATION CRITERIA, **Name of the Job/ item**, Tender document no, and due date".
- Cover No.-4 : Containing the above four sealed covers superscribing "COVER-IV, NAME OF THE JOB, TENDER DOCUMENT NO, DATE & DUE DATE OF SUBMISSION.

3.0 You are specifically requested to note the following and submit your complete offer as per following:

4.1 Cover letter to be placed in cover-I, indicating tender document no; name of the job; references of all subsequent correspondences in connection with the subject job, if any. Also Duly filled-in, signed and stamped on all pages of the following documents is to be placed in Cover-I of offer :

4.1.1 Techno-commercial offer - 2 copies (1 marked as 'original' and the other as 'copy').

4.1.2 Tender document details of this web pages - 1 copy (marked as 'original' and should be stamped & signed on all pages by authorized signatory of the bidder).

- 4.1.3. Price Schedule of tender document (**un-priced**, but indicating 'quoted/not quoted' as applicable) - 1 copy (marked as 'original').
- 4.1.4 2 (Two) copies of supporting / supplementary documents other than those already submitted elsewhere in this tender, containing all data sheets, annexures etc. (duly filled- in all respects), as applicable. Please mark enclosure no. / annexure no. corresponding to all enclosures in Cover-I of offer.
- 4.2 Duly filled in price schedule (Quoted rates) to be placed in Cover – II.
- 4.3 Documents in support of fulfillment of pre-qualification criteria to be placed in Cover–III.
- 5.0 BHEL reserves the right to accept or reject any or all offer without assigning any reasons thereof. BHEL also reserve the right to cancel the offer wholly or partly without assigning any reason thereof. BHEL also reserve the right to split the job.
- 6.0 You are free to visit the site and study the prevailing site condition including law & order etc. before quoting.
- 7.0 For any clarification on the tender document, you may seek the same in writing from the office of the undersigned. Such letters should reach the office of the under signed positively by **25/06/2008**.
- 8.0 BHEL **may** decide holding pre-bid conference (PBC) with any/ all the intending bidders. On such communication from BHEL, the bidder shall ensure participation for the same at the appointed time, date and place as may be decided by BHEL.
- 9.0. In the event of any conflict between requirement of any clause of this specification / documents / drawings / data sheets etc or requirements of different codes / standards, specified, the same to be brought to the knowledge of BHEL by you in writing for such clarifications before you submit your bid; otherwise, more stringent requirements as may be interpreted by BHEL shall prevail and shall be binding on you.
- 10.0 Price bids of those bidders will be opened who will be qualified for the subject job on the basis of evaluation of Techno-commercial bids / pre-qualifying criteria and as considered suitable by BHEL.
- 11.0 While BHEL reserves the right to open the price bid of the offers in camera, the date & time to open the tender opening shall be intimated to the bidders in case BHEL decides it to be 'Public opening' and in such a case, one authorized representative of the bidder shall be allowed to attend.
- 12.0 Entry tax (if applicable) shall be born by BHEL.
- 13.0 Earnest Monet Deposit ( EMD ) of **Rs.10,000=00** either in cash deposited at BHEL office Cash section and receipt enclosed or in the form of crossed Demand Draft / Pay Order ( in favour of Bharat Heavy Electricals Limited, payable at Kolkata ), shall be enclosed by the bidder along with the offer, failing which the tender is liable for rejection.

One time EMD for Rs. 2,00,000.00 ( Rupees One Lakh only ) will also be valid for all such jobs. Bidders who have deposited one time EMD of Rs. 2.00 lakh

with BHEL:PSER for such job ( evidence of deposit must be submitted ) will be exempted from submission of EMD with this tender. The followings may be noted:

In case the bidder deposits separate EMD as mentioned above , there will be no change in existing clauses of this tender.

In case of bidders having one time EMD ; one time EMD can not be used for SD purpose. In this case, 50% of security deposit can be deposited by the successful bidder in the form of BG within time specified in the letter of intent and balance 50% of SD shall be deducted from RA bills @ 10% of gross value of RA bills till the full security deposit is made up.

Bank Guarantee shall not be acceptable towards EMD. The EMD shall be enclosed with the Techno-Commercial Bid ( Part-A).

All the bidders are requested to note that all the errata / technical clarifications / corrigendum / extension etc shall be published in this web page only. As such, all the bidders are requested to be in continuous touch with this web page.

Thanking you,

Yours faithfully,  
For BHARAT HEAVY ELECTRICALS LTD

Manager (Purchase)

**PART-A :**

**PRE-QUALIFICATION CRITERIA**

- BIDDER SHALL **EITHER** BE AN **ORIGINAL EQUIPMENT MANUFACTURER (OEM)** OR AUTHORIZED REPRESENTATIVE OF OEM. IN CASE OF AUTHORIZED REPRESENTATIVE OF OEM, THE AUTHORIZATION CERTIFICATE TO BE SUBMITTED ALONG WITH THE OFFER .
- BIDDER SHALL HAVE SERVICING NETWORK WITH REPAIR CENTRE IN INDIA. BIDDER HAS TO SUBMIT THE SAME IN WRITING IN THE OFFER .
- BIDDER SHOULD HAVE AN AVERAGE ANNUAL FINANCIAL TURNOVER DURING THE LAST THREE YEARS, ENDING **31<sup>ST</sup> MARCH'07** SHOULD BE AT LEAST **9 Lac**, AND SHOULD SUBMIT THEIR AUDITED BALANCE SHEET AND PROFIT & LOSS ACCOUNT IN SUPPORT OF THE SAME.

**NOTE:**

- THE BIDDER WHO MEETS THE ABOVE PRE-QUALIFICATION CRITERIA CAN ONLY PARTICIPATE IN THE SUBJECT TENDER. **OFFER MUST BE IN LINE WITH THE ABOVE PQ CRITERIA, FAILING WHICH OFFER WILL BE TREATED AS CANCELLED.**
- BHEL RESERVE THE RIGHT TO ACCEPT / CANCEL ANY OR ALL THE OFFERS WITHOUT ASSIGNING ANY REASON THEREOF. BHEL ALSO RESERVES THE RIGHT TO CANCEL THE TENDER WITHOUT ASSIGNING ANY REASON WHATSOEVER.
- BIDDERS QUOTING IN INDIAN CURRENCY (INR) ONLY SHALL BE QUALIFIED

**PART – B (I) : GENERAL CONDITIONS OF CONTRACT (GCC)**

SL. NO.	BHEL STANDARD TERMS	Supplier confirmation
01	<p>Our requirement is for capital use and <b>will be used at PSER : KOLKATA OFFICE</b>. Offers are invited to submit in two-parts.</p> <p><b><u>Part-I : TECHNICAL-CUM-COMMERCIAL AND UN PRICED BID :</u></b> Consisting of complete technical details, catalogues, drawings and all commercial terms. (Money values shall not be indicated i.e. un price bid).</p> <p>Following formats are to be filled and submitted in a single cover super scribing as Technical - cum - Commercial and Un Priced Bid, Tender Enquiry No. and Due Date.</p> <p>(i) Technical Specification (Catalogues to be enclosed if any) (ii) BHEL Standard Terms &amp; Conditions. (iii) Un Price Bid (iv) Confirmation of pre-qualification criteria <b>(to be downloaded from our BHEL Web Site i.e. <a href="http://www.bhel.com">www.bhel.com</a> or <a href="http://www.jantermanter.com">www.jantermanter.com</a>).</b></p> <p><b><u>Part-II : PRICE BID</u></b></p> <p>Price to be indicated in the format enclosed. (Any preconditions for price will not be accepted and the tender will be rejected).</p> <p>The Technical -Cum-Commercial offer will be opened first, discussed, finalized and only then the price bid of technically acceptable offers will be opened.</p> <p>Tenders will be received up to 11.00 Hours on the said due date. <b>Offers should be submitted in Duplicate.</b></p> <p><b><u>If the vendor submits offer i.e. Technical &amp; Price bid together in single envelope, the offer will be rejected.</u></b></p>	
02	<p>If any vendor sought to quote through their agents "They have to inform to BHEL in advance, before opening date. Other wise the offer will be treated as Unsolicited Offer and same will not be opened".</p>	
03	<p>BHEL keeps its right to <b>reject / load</b> any offer which is having deviations to BHEL Specifications, Standard Terms &amp; Conditions. All the bidders shall submit their offers only by filling the original BHEL tender documents. No other offer will be entertained. In case of Technical-Cum-Commercial bid, copy of the price bid has to be used to indicate commercial terms without price.</p>	
04	<p>The equipment offered shall be strictly conforming to the specification and for complete unit.</p>	
05	<p>No offer for individual accessories or part machinery will be accepted.</p>	

SL. NO.	BHEL STANDARD TERMS	Supplier confirmation
06	<p><b>Terms of payment :</b></p> <p>a. 90% within 30 days on submission of invoice along with materials receipted challan.</p> <p>b. 10% within 30 days ON successful completion of training, certified by TSX department of PSER:HQ.</p> <p><b>c. No advance shall be paid. Payment shall be paid in INR only. Payment shall be through RTGS.</b></p>	
07	<p><b>Warranty :</b></p> <p>Warranty will be for engineering, materials used, design and stipulated performance of the equipment supplied and will remain valid for a period of 12 months from the date of installation/ commissioning. In case of any defect arising out of above, supplier shall replenish the component / assembly, free of cost.</p>	
08	<p><b>Delivery :</b></p> <p>As per special conditions, however, bidder to submit exact delivery period in techno-commercial bid as it attracts penalty / LD.</p>	
09	<p><b>TERMINATION CLAUSES:</b></p> <p>(i) BHEL has a right to cancel the order for delay in supply beyond penalty period without any monetary or legal obligations.</p> <p>(ii) Obtaining the Export / Import License, if any required is the responsibility of the supplier. In case of delay in supplying the equipment in time, due to this reason, BHEL has a right to cancel the order without any monetary / legal obligation. To this extent supplier has to give the confirmation.</p>	
10	<p><b>Liquidated Damage (LD) :</b></p> <p>It is clearly understood among the parties to the contract that the delivery of the goods specified in the purchase order should be made within the time limit prescribed. Where the seller supplies or dispatches the goods beyond the delivery period specified, the purchaser will have no obligation to accept the goods. If accepted liquidated damages at the rate of <b>½% (half percent) of the value of goods (Basic price) in arrears per week at the discretion of the purchaser, subject to a maximum of 10% (ten percent) of basic price</b>, will be levied without prejudice to any other relief or compensation due to the purchase under any other condition to the contract.</p>	
11	<p>The sealed tenders superscribing tender number and due date should be <b>addressed to</b> MANAGER / PUR, Bharat Heavy Electricals Limited, PSER, DJ-9/1, SALT LAKE. SECTOR-II, KOLKATA - 700 091, India.</p>	
12	<p><b>Inspection :</b></p> <p>BHEL will have the option to inspect with conducting of Load/Overload Test etc. the equipment at supplier's works before delivery. The final inspection / performance checking will however be carried out at our site. Bidder must submit quality plan within one month from the date of LOI / PO, to BHEL for its approval.</p>	
13	<p>Supplier must submit with their offer <b>list of customers</b> (with their full address and their purchase reference number) to whom they have supplied similar machine in the past five years. The year of supply should also be indicated.</p>	

SL. NO.	BHEL STANDARD TERMS	Supplier confirmation
14	The quotation should be <b>valid at least for a period of 90 days</b> from the tender due date of submission (extended, if any). Price Variation Clause will not be entertained	
15	<p><b>Force Majeure :</b></p> <p>The vendor shall be subject to force majeure clause defined as under :</p> <p>This force majeure is herein defined as any cause which is beyond the control of the tenderer which they would not have foreseen or with a reasonable amount of diligence could not have foreseen and which subsequently affect the performance of the contract such as SRCC (strike riot and civil commotion), earthquake, flood, acts of god, acts of any government, domestic or foreign including but not limited to war.</p> <p>The tenderer shall not be liable for delay in performing his obligation resulting from any force majeure clause as referred to and/or defined above. The date of completion will be subject to hereinafter provided be extended by a reasonable time even though such cause may occur after tenderer's performance of his obligation has been delayed for other causes.</p>	
16	<p><b>Arbitration :</b></p> <p>In the event of any dispute or difference arising between the parties to this contract regarding execution of the same or their respective rights and liabilities there under, the same shall except as otherwise expressly provided therein, be referred to the arbitration of sole arbitration of General Manager, BHEL, PSER, Kolkata or any other person nominated by him and provisions of the "The Arbitration and Conciliation Act ,1996" of India or any statutory notification or re-enactment therefore and rules framed there under from time to time shall apply to such arbitrations. The decision of arbitrator shall be binding both on seller and purchaser. The venue of arbitration shall invariably be Kolkata, India.</p>	
17	<p><b>Jurisdiction :</b></p> <p>All disputes or differences arising under out of or in connection with the purchase order shall be subject to the exclusive jurisdiction of court at Kolkata.</p>	
18	<p><b>Risk Purchase :</b></p> <p>Alternatively, the purchaser at his option, will be entitled to terminate the contract and to purchase elsewhere at the risk and cost of the seller either the whole of the goods or any part which the supplier has failed to deliver or dispatch within the time stipulated as aforesaid or if the same were not available, the best and the nearest available substitute therefore. The seller shall be liable for any loss which the purchaser may sustain by reason of such risk purchase in addition of LD at the rate mentioned in LD clause.</p>	

SL. NO.	BHEL STANDARD TERMS	Supplier confirmation
19	<b>General :</b> i) The <b>Consignee</b> for the equipment will be " AGM/TSX, BHEL BHAWAN, BHEL-PSER:KOLKATA. ii) All documents / correspondences must bear the Tender no. / Purchase Order No. & Date.	
20	The <b>purchase preference</b> to Govt. undertakings shall be given as per the guide lines of Government of India.	
21	Bank Guarantee : Non submission of 10% BG will attract 10% loading on the offers.	
22	<b>Penalty Clause</b> : Non acceptance of penalty clause will attract maximum 10% loading on the offer and accordingly proportionate percentage will be loaded for accepting less percentage of penalty clause. Ex : If the supplier has accepted for maximum 5% penalty clause, then balance 5% will be loaded.	
23	For all other Terms & Conditions, if the offer is not confirming to the same, BHEL at its discretion shall load the same and the loading pattern shall be intimated to the bidders before price bid opening. However BHEL reserves the right to cancel a bid in case of non-acceptance of any terms and conditions finally arrived before price bid opening.	
	<b>Note</b> : The offers not complying the above Terms & Conditions will not be accepted.	

**Note :**

01. In case of any conflict / inconsistency in any clause of the tender or between various sections of the tender, bidder should bring the same in writing to BHEL for clarification before submission of the bid, failing which the most stringent interpretation of the clause in favour of BHEL shall be adopted and the same shall be binding to the bidder.
02. Any deviation sought by the bidder should be indicated in the techno-commercial offer.
- 03. Bidder should write "accepted" in the column "supplier confirmation" for each clause.**

**PART – B (II) :**

## **SPECIAL TERMS AND CONDITIONS FOR MMD's**

The following items to be furnished /Supplied/Confirmed by the Vendor at the time of delivery of the above instruments.

### **CERTIFICATES:-**

The Vendor Shall provide

- Calibration Certificate:To be provided from Govt of India agency (ERTL/NTH etc)
- Operation Manual:- To be provided by Supplier/OEM in original (OEM COPY).
- Warranty /Guarantee Certificate:- To be provided by the Supplier/OEM.(12 Months)
- Certificate of NEWNESS to be provided by Supplier/OEM

### **ACCESSORIES:-**

All necessary probes, accessories, CD's , RS 232 Interface facility ( IF Any) to be supplied with the equipment.

### **INSPECTION & DEMONSTRATION :-**

To be done at BHEL-PSER (HQ)/C& I Lab/ Manohar Pukur-BHEL Guest House in presence of BHEL's Engineer and Vendor's representative .

### **SCOPE:**

- Supply
- Installation
- Inspection
- Demonstration

### **DELIVERY PERIOD:**

- **Within 8(Eight) Weeks**

### **DELIVERY:-**

BHEL-PSER (HQ)/C& I Lab/ Manohar Pukur-BHEL Guest House

**PART – C:**  
**( TECHNICAL SPECIFICATION )**  
**DIGITAL INSULATION TESTER**

Heavy Duty Battery Operated Insulation Resistance tester (5 KV) For Automatic P.I., Step Voltage and Dielectric Discharge Test.

**Technical Requirement:**

Voltage selection - 500V, 1 kV, 2.5 kV, 5 kV standard DC volt  
 Variable test voltage 50 V to 5000 V

- Rated resistance 10 K - 5 T ohms Resistance range for each rated voltage shall be indicated in the offer.
- Instrument should measure capacitance from 0.01 to 10.0  $\mu$ F or better
- Instrument should display actual voltage present across the test piece

Short Circuit current -1.2 mA nominal or better

**Measurement Range**

Insulation resistance range  
 Digital  
 10 k. to 500 G $\Omega$ . @ 500 V  
 10 k. to 1 T $\Omega$ . @ 1 kV  
 10 k. to 2.5 T $\Omega$ . @ 2500 V  
 10 k. to 5 T $\Omega$ . @ 5 kV

**Current**

0.01 nA to 999  $\mu$ A  
 Capacitance  
 0.01  $\mu$ F - 10.0  $\mu$ F or better

**Display: Digital-LCD/TFT**

Test time should be selectable from 1 second to 30 minutes or higher

**Type**

The instrument should perform automatic tests and measure Insulation Resistance, current, capacitance, Polarisation index, Step voltage tests and Dielectric Discharge & Time constant.

Instrument should display direct reading of voltage across the test piece, PI value, and Dielectric discharge Value.

The tester shall be suitable for D.C. battery operation. The D.C. batteries should be rechargeable with the 230 Volts A.C. supply. The necessary accessories for this purpose shall be supplied by contractor. The ratings of D.C. batteries shall be indicated in the offer.

- Suitable port and software to be provided for data logging
- Digital and software filter should be available in the instrument to remove induced noise.
- Safety:

Safety Should Conform to IEC 1010-1 (1995)

Environmental Protection Instrument should be rated to IP54

EMC Meets EN50081-1 and EN50082-1 (1992)

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

- **Included Accessories with the Instrument:**
  1. High Voltage test lead, 3 mtr. Long  
Mains supply lead for charging
  2. Accessory pouch
  3. **Test Record Cards (5)**
  4. User Guide
  5. Calibration Certificate: To be provided from Govt of India agency  
(ERTL/NTH etc)  
& Test Certificate (Traceable to National/Intn. Standard) ,
  6. Certificate of newness
  7. Test Leads & Accessories
  8. Software/CD etc

**NB:- Offered Model must have technical Comparison with BHEL Specification in tabular form.**

**PART – D****PRICE SCHEDULE**

<b>NAME OF THE TENDERER</b>			
<b>SELLERS REF. No</b>		<b>DATE</b>	
<b>ENQUIRY NO</b>		<b>DATE</b>	<b>DUE DATE</b>

<b>DESCRIPTION</b>	<b>QTY (No)</b>	<b>BASIC PRICE In Rupees</b>
<b>DIGITAL INSULATION TESTER as per tender specification</b>	<b>02 (TWO)</b>	

1. Excise Duty :
2. Sales Tax / VAT :
3. Packing & Forwarding :
4. Transportation Charges :
5. Octroi :
6. Any Other Charges :
7. Discount (if any) :
8. Insurance :
9. Total Cost (Unit Rate + 1 to 8) :

**Signature of the bidder with seal & date**

**PART-E**

**NO DEVIATION CERTIFICATE**

Certified that we have gone through each and every terms and conditions mentioned in the enquiry (Terms and conditions) and offer our unqualified acceptance of the same.

It is also confirmed that the price has been quoted in the format received with the enquiry.

Any deviation found subsequently at any time during execution of order shall be treated null and void.

(Signature of bidder)  
with Seal