



An ISO 9001
Company

Bharat Heavy Electricals Limited

(High Pressure Boiler Plant)

Tiruchirappalli – 620014, TAMIL NADU, INDIA

CAPITAL EQUIPMENT / MATERIALS MANAGEMENT

| | |
|-------------------------------|--|
| ENQUIRY | Phone: +91 431 257 76 53 |
| NOTICE INVITING TENDER | Fax : +91 431 252 07 19 |
| | Email : skaruna@bheltry.co.in |
| | Web : www.bhel.com |

| | | | |
|-------------------------------------|------------------------|----------------------|--|
| TWO PART BID | Enquiry Number: | Enquiry Date: | Due date for submission of quotation: |
| Tender to be submitted in two Parts | 2631500031 | 16.10.2015 | 09.11.2015 |

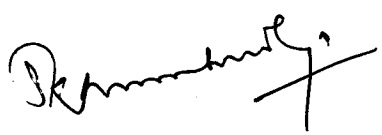
You are requested to quote the Enquiry number date and due date in all your correspondence. This is only a request for quotation and not an order.
Please note that under any circumstances both delayed offer and late offers will not be considered. Hence vendors are requested to ensure that the offer is reaching physically our office before 14.00 hrs on the Date of tender opening.

| Item | Description | Quantity |
|------|---|---------------|
| 10 | Digital Precision Multimeter as per the technical specification & commercial conditions applicable (to be downloaded from web site www.bhel.com or http://tenders.gov.in) | 2 Nos. |

Important points to be taken care during submission of offer

1. Compliance Form No: MM/ CE/ IND/ 12 to be filled and enclosed along with the offer failing which, the offer will not be considered for evaluation.
2. All updates, amendments, corrigenda, etc., (if any), for each tender will be posted only on the above websites from time to time, as and when required, until each tender is opened. There will be no publication of such updates, amendments, corrigenda, etc., through newspapers or any other media.
3. Delivery required: 6 weeks from the date of Purchase Order.
4. Installation and demonstration of the instrument shall be done by the vendor at BHEL/ PPPU/ Thirumayam at free of cost.
5. Item shall be delivered to BHEL, PPPU, Thirumayam, Pudukottai Dist., Tamilnadu

BHEL's General guidelines / instructions (refer MM/CE/GENL/001), compliance form and technical specification can be downloaded from BHEL web site <http://www.bhel.com> or from the Government tender website <http://tenders.gov.in> (public sector units > Bharat Heavy Electricals Limited page) under Enquiry reference "2631500031".

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| <p>Tenders should reach us before 14:00 hours on the due date Tenders will be opened at 14:30 hours on the due date Tenders would be opened in presence of the tenderers who have submitted their offers and who may like to be present</p> | <p>Yours faithfully, For BHARAT HEAVY ELECTRICALS LIMITED</p>  <p>DGM / Capital Equipment / MM</p> |
|---|---|

S. KARUNANIDHY
Dy. General Manager
Capital Equipment / MM
BHEL, Tiruchirappalli - 620 014.

Specification for Digital Precision Multimeter

Hand held type, 4.5 digit mode DPM (with probes) for accurate voltage, current and frequency etc. measurements on adjustable speed motor drives and other electrically noisy equipment.

| Part A: QUALIFICATION CRITERIA: | |
|--|---|
| 1 | The vendor should be either OEM or an authorised dealer (Valid Dealership Certificate to be attached in case of authorised dealer). |
| 2 | Vendor should have supplied at least 2 Nos. of the offered model in the last 3 years. Vendor should provide the PO copies [or any other relevant document(s)] along with customer details (Name, Address Phone Number / E-Mail id, etc.,) for verifying the performance of product. |

| Part B: SPECIFICATIONS: | | | |
|-----------------------------------|--------------------|---|--------------------------------------|
| Sl. No. | SPECIFICATION | | Vendors comment (Specify/confirm) |
| I. TECHNICAL SPECIFICATION | | | |
| 1 | Make: | Yokogawa / Meco / Fluke / Mastech / Innova / Hioki or any other reputed make acceptable to BHEL | |
| 2 | Model No.: | Vendor to specify | |
| 3 | Voltage DC | Voltage Range | 0-1000 V |
| | | Accuracy | ±(0.05% + 2) |
| | | Maximum resolution | 10 µV |
| 4 | Voltage AC | Voltage Range | 0-1000 V |
| | | Accuracy | ±(1.0% + 2) True RMS or better |
| | | AC bandwidth | 20 kHz with low pass filter |
| | | Maximum resolution | 0.1 mV |
| 5 | Current DC | Current Range | 0-10 A |
| | | Amps accuracy | ±(0.2% + 2) |
| | | Maximum resolution | 0.01 µA |
| 6 | Current AC | Current Range | 0-10 A |
| | | Amps accuracy | ±(1.0% + 2) True RMS |
| | | Maximum resolution | 0.1 µA |
| 7 | Resistance | Maximum resistance | ≥50 MΩ |
| | | Accuracy | ±(0.4% + 1) |
| | | Maximum resolution | 0.1 Ω |
| 8 | Capacitance | Maximum capacitance | ≥ 10000 µF |
| | | accuracy | ±(1% + 2) |
| | | Maximum resolution | 0.01 nF |

| Sl. No. | SPECIFICATION | | Vendors comment (Specify/confirm) |
|---|-------------------------|--|--------------------------------------|
| 9 | Frequency | Maximum frequency | >= 200 kHz |
| | | Accuracy | ±(0.02% + 1) |
| | | Maximum resolution | 0.01 Hz |
| 10 | Temperature measurement | -200.0°C to +800°C (vendor to specify) | |
| 11 | Diode | Range | 2 V |
| | | Resolution | 1 mV |
| | | Accuracy | ±(2% + 2) |
| 12 | Duty cycle | (vendor to specify) | |
| II. ENVIRONMENTAL SPECIFICATION | | | |
| 13 | Operating temperature | -20°C to +55°C (vendor to specify) | |
| 14 | Storage temperature | (vendor to specify) | |
| 15 | Humidity | (vendor to specify) | |
| III. SAFETY SPECIFICATION | | | |
| 16 | Overvoltage category | 1000 V CAT III / 600V CAT IV (vendor to specify) | |
| 17 | Agency approvals | UL, CSA, TÜV, VDE etc. (vendor to specify) | |
| IV. MECHANICAL & GENERAL SPECIFICATION | | | |
| 18 | Size | (vendor to specify) | |
| 19 | Weight | < 750 grams (vendor to specify) | |
| 20 | Warranty | Min. 1 Years (vendor to specify) | |
| 21 | Battery Type / Life | Type: Alkaline (vendor to confirm) | |
| | | Life: (vendor to specify) | |
| V. SPARES & DOCUMENTATION | | | |
| 21 | Spares | a. Battery (1 No.) | |
| | | b. Probe (1 set) | |
| | | c. Fuse (2 Nos.) | |
| 22 | Manual | Hard copy of Instruction Manual (1 set.) | |