Notice inviting quotations for Electrometer

Sealed quotations are invited for an electrometer. The required specifications are given below. The purchase will be made through a two part bidding process. Technical and Financial bids have to be made separately. Complete technical information should be provided along with the Technical bid. Please refer to the Terms and Conditions on the next page for details on how and when to submit Technical and Financial bids.

**Required specifications for Electrometer**

1. Capacity to do voltage, current, charge and resistance measurements.
2. Voltage measurement resolution ~ 15 microV or better in 2V range. 100 micro V or better in 20V range, and 1 mV or better in 200 V range. CMRR>120dB at DC and line frequency. Accuracy at least +/- 0.030% at room temperature in 2V range.
3. Current measurement resolution ~ 200aA or better on 20pA range, 1fA or better on 200 pA range, 10 fA or better on 2 nA range, 100 fA or better on 20 nA range, 100 nA or better on 20 mA range. Accuracy ~ +/-1% at the most sensitive ranges. Input bias temperature coefficient < 1 fA/deg C.
4. Charge measurement resolution ~ 10 fC or better on 20 nC range, 100 fC or better on 200 nC range, 10 pC or better on 20 micro C range. Accuracy 0.5% or better in 20 nC range. Input bias current < 5fA at calibration temperature.
5. Resistance measurement resolution - 10 m Ohm or better on 2 kOhm range, 100 m Ohm or better on 20 k Ohm range and 1 M Ohm or better on 200 G Ohm range. Accuracy better than 0.30% on 2 k Ohm range. Test current drawn < 0.9 mA for most sensitive ranges, < 1nA for the 20 G Ohm range. Open circuit voltage ~ 250 VDC.
8. Trigger input. External trigger delay to reading no more than 150 ms.
10. Reading rate (IEEE-488 bus): 500 readings / second or better. Internal storage: 1200 readings or better.
11. Front panel access to digital calibration.
14. Quote must include all test leads / cables needed to do the above measurements (banana plugs / coaxes / triaxes / etc.) in a triggered configuration.
15. Warranty: 5 year comprehensive on-site warranty is required
16. Delivery and installation: Within 1 month of placed order.

Dr. Madhusudan Singh (Chairman, purchase committee)
Terms and Conditions

1. Please submit the TECHNICAL and FINANCIAL bids in separate sealed envelopes. Mark the two envelopes clearly as “Technical Bid” and “Financial Bid” respectively. Both the sealed envelopes should be sent in a single sealed envelope, clearly marked as “Quotation for Electrometer”. The quote should reach the following address on or before Jan 22, 2014, 12 PM.

Dr. Madhusudan Singh
Department of Electrical Engineering
Block II, Room 236, IIT Delhi, Hauz Khas, New Delhi 110016, India

2. Please quote prices in INR inclusive of all taxes, freight, delivery, installation and onsite training charges. The quotation should provide the total price of the system including all taxes and transportation charges.

3. Quote should be valid for at least three months.

4. Attach all the technical literature and a list of similar installations done in India. The vendor must have a website with a credible domain name that has existed prior to the floating of this tender and the specifications, manuals and any other relevant documentation for this equipment must be free to download from that website, independent of the supplied literature.

5. If the quote is being submitted by a representative of the manufacturer, a valid agency-ship or dealership certificate authorizing the agent to quote to IIT Delhi, specific to this tender, on behalf of the manufacturers should be enclosed.

6. Either the Indian agent on behalf of the Principal/OEM or Principal/OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender. If an agent submits bid on behalf of the Principal/OEM, the same agent shall not submit a bid on behalf of another Principal/OEM in the same tender for the same item/product.

7. Complete set of manuals for the operation of the equipment should be provided.

8. Clearly specify the installation requirements - such as space, power, frequency, environment etc.

9. If the item quoted is proprietary in nature, please enclose proprietary certificate from the principals stating: “Certified that is a proprietary item of M/s and no other manufacturer makes this item.”

10. Please specify all of your terms and conditions clearly, including delivery period.

11. For all purchases, payment is after installation, as per IIT Delhi norms.

12. IIT Delhi is exempted from paying Excise Duty and necessary Excise Duty Exemption Certificate will be provided for which following information are required.

   a. Quotation with details of Basic Price, Rate & Amount on which ED is applicable.

13. The Institute reserves the right to accept or reject any or all quotations without assigning any reasons thereof.

Dr. Madhusudan Singh (Chairman, purchase committee)
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