

DEPARTMENT OF PHYSICS, IIT DELHI

Dated: 3/11/ 2011

NOTICE INVITING QUOTATION

We seek formal quotation for a precision LCR meter with the following given specifications:

Precision LCR Meter, 20 Hz to 2 MHz:

- **Frequency range** : 20 Hz to 2 MHz, with 4-digit resolution in any range
- **Basic Accuracy** : 0.05% basic accuracy with superior measurement repeatability at low and high impedance and measurement time of 88ms @1MHz,
- 201 points list sweep
- Built-in 40V DC Bias , 20 Vrms test signal . High-speed measurements: 5.6 ms
- **Measurement Parameter** : Capacitance with parallel /series model, Inductance with parallel /series model, Dissipation factor , Equivalent parallel / series resistance, Direct current resistance , Direct current voltage /Direct current electricity and related math operations.
- **Measurement display ranges** : (where $a = 1 \times 10^{-18}$, $E = 1 \times 10^{18}$)

Parameter	Measurement display range
Capacitance with parallel /series model	1.000000 aF to 999.9999 EF
Inductance with parallel /series model	1.000000 aH to 999.9999 EH
Dissipation factor	0.000001 to 9.999999
Equivalent parallel / series resistance,	
Direct current resistance	1.000000 a Ω to 999.9999E Ω
Direct current voltage /Direct current electricity	1.000000 aV/A to 999.9999 EV/A
- a LXI class C compliant, Versatile PC connectivity (LAN, USB and GPIB)
- Upgradable for Bias Current Interface and supports an additional second DC source capable of delivering $\pm 10V$ for V_{dc} , I_{dc} .
- Should support O/S/L (open, short, load) compensation method in slow, medium and fast mode.
- Test Fixture, 40 Hz to 110 MHz for impedance evaluation of lead type devices up to 110 MHz. A guard terminal should be available for three terminal devices with a shorting plate on this fixture.
- Should support a wide variety of Test fixtures and cables supporting all types of DUTs. i.e BNC test cables, Kelvin clips, Alligator clip leads, Parallel and bottom electrode SMT test fixtures etc.

Terms and Conditions:

1. Costs are to be quoted CIF, IIT Delhi through LC.
2. If the items quoted for are proprietary in nature, please include a proprietary certificate stating that "The items quoted for are proprietary in nature and are manufactured solely M/s".
3. If the quote is being submitted by the representative of the principals/manufactures themselves, a valid agency ship/dealership certificate authorizing the agent to quote to IIT Delhi on behalf of the principal should be enclosed.
4. Institute reserves the right to accept / reject any or / all quotations without assigning any reason.
5. The supplier should support the specifications claimed in the quotation by data sheet/certificate. A technical compliance table should be issued.
6. Please clearly mention comprehensive warranty / training / installation etc.
7. All the quote should be in two- envelope bid system. The supplier should submit the tender (quotation) in two envelopes. The first envelope (technical bid) shall contain all the items referred under given specification and be sealed. The second envelope (commercial bid) shall contain the schedule, in which supplier should register the cost / rate of supply.

The second envelope should also be sealed. Both the envelopes then should be put together and be sealed in an envelope. Technical bids will be opened first to ensure that the supplier have supplied all the requisite documents. If the technical bid is not in order or is in deficient in some of respect, the commercial bids of such tender shall not be opened. The date and time of opening of the financial/commercial bids shall be decided after the opening of all the technical bids.
8. Validity of the quotation should be for at least 90 days.
9. The delivery period should be clearly mentioned.
10. Discount any, can be mentioned.
11. Any other charges should be mentioned clearly.
12. Quotations should be sent in the sealed cover marked at the top SUBJECT AND DUE DATE as otherwise these will not be considered.

13. Sealed quotation should be submitted to **Dr Alok Sinha, Department of Physics, Room No 204, Block VI, Indian Institute of Technology, Delhi, India** latest by 4 p.m. on 24-11-2011.