

Cryogenic Engineering Centre

Indian Institute of Technology, Kharagpur

INVITATION FOR TENDER

IIT/CRYO/PG LAB/VA/LCR METER/2017-18

Date: 10-11-2017

Sealed tenders are invited in Two-bid System in two separate sealed envelopes (one for Technical specifications and the other for Commercial offers) from eligible Indian manufacturers/suppliers or foreign manufacturers through their Direct Indian Agents for the supply of the following equipment.

If any Indian Agent quotes on behalf of Foreign Principal, in that case, as per GFR Rule, Vendor Registration Number from DGSD under Ministry of Commerce, Government of India, and copy of business agreement are to be submitted along with quotation (in the Envelope containing the Technical Bid) failing which the quotation would not be considered.

- Both the envelopes must be sealed and should clearly be marked on top of envelope about type of envelope (i.e., technical/price bid), tender reference no. and name of agency submitting the bid. The technical bid should not have any price indication.
- These two envelopes, mentioned above, must be in a larger envelope with tender reference number and name of the agency clearly written over it.
- Bids, those are not following two-bid system, will be cancelled.

Please send offers, along with descriptive catalogue/brochure. The validity of the bid should be at least 120 days from the last date of submission. Please ensure that your quotation reaches this office not later **12th December, 2017 at 1500 hrs.** at the following address:

**Head of the Centre
Cryogenic Engineering Centre
Indian Institute of Technology Kharagpur
Kharagpur 721302, West Bengal, India**

Kind Attention: Dr. Venimadhav Adyam

Last Date of Submission of Quotation: 12th December (Tuesday), 2017, 1500 hrs.

Validity: 120 days from the last date of submission

Date & Time of Opening the Tender: 13th December, 2017 at 1600 hrs

Technical specification of Tender for LCR meter

Description		Specifications Required
Measurement Frequency		50Hz to 1MHz
Measurement Voltage		10mV to 5V
Measurement Current		10 μ A to 100mA
Accuracy		\pm 0.05% rdg
Speed		High speed 1 ms (fastest time)
Measurement parameters		Z, Y, θ , X, G, B, Q, R _{dc} , R _s , R _p , L _s , L _p , C _s , C _p , D (tan δ)
Measurement parameters range	Z , R, X	0.00 m to 5 G Ω
	θ	-180.00° to +180.00°
	C	0.3200 pF to 370.00 mF
	L	16.000 nH to 750.00 kH
	D	0.00001 to 9.99999
	Q	0.01 to 999.99
	Y,G,B	5.0000 nS to 99.999 S
Output impedance		50 Ω
External interfaces		EXT. I/O(HANDLER) ,USB, USB flash drive, LAN, GPIB, RS-232C, BCD
Power source		100 to 240 V AC, 50/60 Hz,
Maximum Rated Power		50 VA max.
Data supported		Memory function and USB flash drive support
Supplementary functionality		Trigger function, Compensation function, Contact check
Certification		EMC: EN 61326, EN 61000 Safety: EN 61010 RoHS: EN50581
Options		External Dc bias: \pm 30V Measuring probe: Measurable range: DC to 5 Mz Cord length: 1 m

Techno-commercial conditions

- a. Interested original equipment manufacturers or dealers or agents may submit their quotations in **two bid systems** (technical and commercial).
- b. **Warranty – minimum 2 years** from the **date of installation and commissioning at the site.**
- c. Scope of supply should include **free installation, commissioning and training at site.**
- d. Please provide **list of such supplied systems in India and abroad** both in academics and industry.
- e. **Validity** of the quotation should be **120 days from last date of submission**
- f. In the technical bid, vendors have to give a technical compliance certificate along with the technical literature.
- g. Compliance statement is to be submitted as per our technical specification. Claim for compliance should be traceable to your brochure. Please mention page number etc. of your brochure for easy traceability.
- h. Commercial bid is to be provided in clearly marked separate sealed envelope.
- i. If any Indian Agent quotes on behalf of Foreign Principal, in that case, as per GFR Rule, vendor registration number from DGSD under Ministry of Commerce, Government of India, and copy of business agreement is to be submitted along with quotation.
- j. **Last date of Submission of sealed quotation is 12th December, 2017 at 1500 hrs.**
- k. **Date & Time of Opening the Tender is 13th December, 2017 at 1600 hrs**
- l. The envelope should have the following number on the top and submitted to the office of

IIT/CRYO/PG LAB/VA/LCR METER/2017-18

Head of the Centre

Cryogenic Engineering Centre, I.I.T. Kharagpur,

West Bengal-721302, INDIA

(Attn: Dr. Venimadhav Adyam)

- m. Regarding this purchase, **the decision of the Director would be final and binding.**
- n. Payment terms for foreign firms: **100% payment through irrevocable L/C.**
- o. Payment terms **for Indian firms**
 - a) 100% payment against delivery through electronic transfer.
 - b) Ensure mentioning: -
 - i. Bank details of the beneficiary and PAN number.
 - ii. Full name and address of the beneficiary on whom order has to be placed.