

INDIAN INSTITUTE OF TECHNOLOGY DELHI
HAUZ KHAS NEW DELHI

Date: 14.07.11

Notice Inviting Quotation

Quotations are invited for 'Fabrication of Dynamic Compression Tester for Fibrous Materials' for the Department of Textile Technology. **Interested suppliers, fulfilling the clauses highlighted in third page, in are required to submit their quotations as per the specifications given below.** The sealed Quotations are to be submitted in two Separate envelopes;

**A - for Technical Quote (Specifications) &
B - for Financial Quote
(For details, see Annexure I)**

Both these envelopes should be further enclosed in an outer envelope, which should also be sealed and addressed to, clearly mentioning on top right corner of the envelope quotations For "Fabrication of Dynamic Compression Tester for Fibrous Materials"

**Dr. Abhijit Majumdar
Assistant Professor
Room No. TX 212
Department of Textile Technology
IIT, Hauz Khas, New Delhi 110016**

The quotations should reach the above office of **by 5.00PM on 29/ 07/ 2011**. If needed, the suppliers may be asked to make a technical presentation before the committee. Institute reserves the right to accept or reject any of the offers without assigning any reasons.

SPECIFICATIONS

The fabrication work should broadly include

1. *Fabrication of a dynamic compression tester using U and I sections of magnetic circuit. The textile fabric will be placed between the U and I sections of ferrite materials.*
2. *The upward and downward movement of the crosshead, carrying the load cell, shall be motorized and the speed should be adjustable between 20mm/min to 100mm/min.*
3. *A ball screw with linear guide is to be provided for imparting the motion. The maximum movement of crosshead should be 150mm.*
4. *A load cell (20 kgf) is to be provided for measuring the applied force on fabric. An instrumentation amplifier is to be provided for interfacing with PC*
5. *An electrical circuit has to be designed for inducing magnetic induction up to 25mH.*
6. *A inductance measuring equipment measures inductance and gives analog output to interface with PC. Sensors for pressure and displacement (compression) measurement.*

7. *A ADC card with customized user friendly software for display and storing of results to be provided.*

Packing, delivery and installation included



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Department of Textile Technology

Envelope A: Technical Quote: The following details are to be enclosed (*Mention clearly on this envelope – Technical Quote*)

1. **List and addresses of textile institutes or organizations in India where fabrication of textile instruments has been done in last 3 years.**
2. **Documents showing the expertise of the company in textile instrumentation.**
3. **Technical drawing, material specification and design of the instrument mentioning all details.**
4. A compliance chart based on the specifications as per the NIQ.
5. Address of the technical office, in India, with telephone and FAX numbers. Kindly clarify the type of support available in India.
6. If quote is for imported equipment supplied through Indian Agent, Sole Agency-ship certificate on the letterhead of the principal company, if quotation is from an Indian Agent.
7. Proprietary Item Certificate from the principals, if applicable.

Envelope B: Financial Quote: The following details are to be enclosed/ ensured. (*Mention clearly on this envelope – Financial Quote*)

1. The quotations for the equipment in foreign exchange, if it is to be imported. The cost of spares and optional equipment/accessories to be quoted separately. The cost should be based on CIF, New Delhi. If equipment is indigenous, the quote should be in INR and all taxes applicable should be mentioned clearly.
2. Institute makes payment after delivery and successful installation. In case the payment terms are different, it should be mentioned clearly. If equipment is to be imported, the address of the company in whose name the LC is to be opened should be stated.
3. The comprehensive Warranty period.
4. The details of the AMC after the warranty period.
5. Cost for Installation and training at site, if applicable.
6. Validity of the quote should be minimum 90 days.
7. The delivery period to be clearly specified.