

**INDIAN INSTITUTE OF TECHNOLOGY DELHI
HAUZ KHAS NEW DELHI**

Date: 15/3/2013

Notice Inviting Quotation

Quotations are invited for the purchase of “**Programmable Syringe Pump**” (one in number) at the Department of Textile Technology. Interested manufacturers / suppliers 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 of the envelope “**Quotations for Programmable Syringe Pump**”.

**Dr. Sourabh Ghosh
Associate Professor
Room No. TX 110 C
Department of Textile Technology
IIT Delhi, Hauz Khas, New Delhi 110016**

The quotations should reach the above office **by 4.00 PM on 29/3/2013**. 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 of “Programmable Single Syringe Pump” (One in number)

Essential requirements

- Microprocessor dual or single syringe, infusion/withdrawal programmable.
- Accuracy $\pm 0.5\%$ minimum
- Reproducibility - $\pm 0.05\%$ or better
- Should be able to use both Plastic or Glass Syringes
- Minimum size of syringes – 1 μ l
- Maximum size of syringes- 50/60 ml (with Single Syringe), 10-20 ml (with Dual Syringe)
- Flow Rate – minimum 3 pl/min, maximum: 80 ml/min.
- Should be able to work in a daisy chain environment to connect multiple pumps.

- Display – should be more than 4 inches **Wide Quarter video graphic array, TFT (Thin film transistor) color**, with touch screen
- Should have **RS-485, 232, TTL & USB ideal for microcontroller circuits** – Type B connection for connecting to other pumps & PC
- Should have Footswitch Phono jack
- Linear Force – 16 kg @ 100% force selection
- Step Resolution – 0.070 µm/step or better.
- Voltage Range Universal input 240 VAC. 50/60 Hz
- Regulatory Certifications: European CE and US standards, WEEE, EU RoHS & CB Scheme.
- **Warranty: 12 months or longer**

Annexure I

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

1. Technical brochures mentioning all details with complete address of the principals.
2. A compliance chart based on the specifications as per the NIQ.
3. Any optional equipment / accessory / spares advised to be included separately.
4. Installation requirements including UPS, etc.
5. List and addresses of organizations where the equipment has been supplied in last 3 years in India.
6. Details of other equipment supplied to IIT Delhi specifying the Department/ centre / lab to which the equipment was supplied. Also mention if the equipment is being maintained by your organization.
7. Address of the technical office, in India, with telephone and FAX numbers. Kindly clarify the type of support available in India.
8. 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.
9. Proprietary Item Certificate from the principals, if applicable.
10. Copy of the certificate of a registered importer from Ministry of Commerce or Finance if the quotation is being submitted by an Indian agent.

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 **FOB**. If equipment is indigenous, the quote should be in INR and all taxes applicable should be mentioned clearly.
2. Institute makes payment only 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 details of the AMC after the warranty period.
4. Cost for Installation and training at site, if applicable.
5. Validity of the quote should be minimum 90 days.
6. The delivery period to be clearly specified.