

Notice Inviting Quotation

Quotations are invited for the purchase of a High-Performance Liquid Chromatography (HPLC) system for the Department of Biochemical Engineering and Biotechnology. Interested 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 enclosed in an outer envelope, which should also be sealed and addressed, clearly mentioning on top right corner of the envelope **“Quotation for High-Performance Liquid Chromatography System”** due on **28th February, 2012**. The quotations should reach the office of **Dr. Praveen Kaul, Room No. I-137, Department of Biochemical Engineering and Biotechnology by 5 PM on 28th February, 2012**. 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

Technical Specifications

HPLC pump

- The flush front panel design and tactile keypad for error-free programming of pump parameters including flow rate, operating pressure limits compressibility compensation, purge mode, calibration and diagnostics.
- Precise stepper motor control (48 steps/ul resolution) of dual reciprocating pistons to ensure pulse free solvent delivery.
- Programmable flow rate range: 0.001 - 22.5ml/min in 0.001 ml/min. increments
- Flow precision: 0.1% RSD.
- Flow accuracy: +/- 1.0%
- Compressibility compensation: Programmable.
- Flow calibration: Programmable.
- Purge function: Pre-programmed, user initiated.
- Maximum operating pressure: 6000 psi.

- Operating pressure limits: Programmable high and low pressure limits, user selectable in psi, bar, kPa.
- Pressure Ripple:<2.0%
- Plunger guiding system: Floating, self aligning mount.
- Primary wetted surface materials: 316 stainless steel, sapphire, reinforced fluorocarbon polymer seals.

Rheodyne and Stand kit

- A front end pressure screw for easy seal adjustment.
- Wide port angles for improved access to fittings.
- Internal position switch.
- Operating pressure upto 5000psi
- 5, 50 & 500ul sample loops included.
- 25ul Syringe included

UV/Visible Detector

- Wavelength range: 190 - 700nm.
- Light source: Deuterium.
- Noise: $< 5 \times 10^{-6}$ AU, dry cell, 230nm.
- Drift: 1×10^{-4} AU/hour.
- Linearity: <5% at 2.5 AU,
- Bandwidth: 5 nm.
- Flowcell: 10ul, (Standard.).
- Time programmable: Wavelength, polarity, lamp on/off.
- Measurement range: 0.0001 to 4.0000 AUFS.
- Accuracy: +/- 1nm.
- Reproducibility: +/- 0.1nm.
- On-line LCD display of chromatograms/spectras.
- Integral Cuvette holder to be used as qualitative bench-top Spectrophotometer.

Software Add On as an interface between HPLC and user

Other accessories

Pentium IV, 2.8GHz , 300GB Hard Disk minimum partition in "C = 200 Gb " and "D =100 Gb" Drive, USB 1.44MB Floppy Disk Drive, 17" sVGA Color Monitor, 4MB VGA Accelerator Graphics Adopter, 2 GB RAM with Windows XP Professional: service pack 2, Internet Explorer 6 and above, 64-bit ,with service pack 4 or 5. DVD Drive, Multimedia with sound card, PS2 type mouse for Windows, One free PCI slot, Printer compatible with Windows XP, Mouse, Manual

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 advised to be included separately.
4. Installation requirements including gases, chillers, UPS, etc.
5. List and addresses of organizations in India where the equipment has been supplied.
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, 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. The agent should be registered for import with the Ministry of Finance / Commerce.

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 to be quoted separately. The cost should be based on FOB pricing. 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 Three Years Warranty.
4. The details of the AMC after the warranty period.
5. Cost for Installation and training at site, if needed, to be provided.
6. Validity of the quote should be 90 days.
7. The delivery period to be clearly specified.