

**INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE
Jadavpur, Kolkata - 700032**

Tender No.: OC/SS/14/65 dated 31.12.2014

**Sub: “FULLY SOFTWARE CONTROLLED BINARY GRADIENT
ANALYTICAL CUM SEMI PREP HPLC SYSTEM”**

Sealed tender in two bids system (**Technical Bid & Price bid**) is invited from bonafide, resourceful and eligible manufacturer/exclusive distributor/vendors for “**Fully Software Controlled Binary Gradient Analytical Cum Semi Prep HPLC System**” with the following specifications & Accessories. Part – I (Technical Bid) of the tender should contain technical details and commercial terms and conditions and Part – II (Price Bid) should indicate group-wise price as mentioned in the Technical Bid. The **Technical Bid** and **Price Bid** are to be submitted in two separately sealed envelopes distinctly marked accordingly and both to be put inside another envelope, which should be sealed and superscribed with tender reference no. and due date. Complete tender bids should reach to the office of Dr. Surajit Sinha, Department of Organic Chemistry, Indian Association for the Cultivation of Science, Jadavpur, Kolkata – 700032 on or before the scheduled date & time specified below. The bidders may submit bids duly signed in their own letterheads.

Tender Notice No.	OC/SS/14/65 dated 31.12.2014
Last date and time of submitting tender	21st January, 2015 at 12.30 pm
Date and time of opening technical bids tender	21st January, 2015 at 3.00 pm
Date and Time of Pre-bid meeting	12th January, 2015 at 3 pm
Place of opening tender	J. C. Bose Meeting Room
Contact	Ocss5@iacs.res.in

The technical bids will be opened first to evaluate technical specifications of the equipment and there after the price bids of only the technically qualified distributor/vendors will be opened

Opening of price-bid: The Price Bids of the bidders qualifying the technical bid will only be opened, the date of which will be intimated to the short-listed bidders at their email addresses. The rest of the bids will be rejected.

Please note that IACS will not provide any accommodation or expenses to any of the bidders for attending opening of technical bid/price bid.

A). TECHNICAL BID:

Technical Bid should contain technical details and commercial terms and conditions and kept in a separate envelope duly superscribed as “**Technical Bid**” on the outer cover of the envelope.

Detailed Technical Specifications of “HPLC SYSTEM”.

Application:

The primary application would be for separation and purification of chemical compounds and biomolecules such as: DNA/RNA/Peptide etc.

It is for this purpose, the following set of specifications is required.

System:

The system should be with the following components:

1. Pump

- Gradient formation: High pressure binary mixing
- Solvent delivery unit should contain two individual pumps
- High precision dual plunger design
- Individual pump Flow rate range preferably from 0.001ml to 10.0 ml
- Max. Operating Pressure up to 40 MPa or better
- Flow rate accuracy: $\pm 1\%$
- Pulsation- 0.03 MPa or better
- Flow Rate Precision: 0.06% RSD or better
- Should have built in self diagnostic and auto Purge function
- Automatic plunger rinsing kit
- Gradient mixing for analytical, semi-micro & semi-prep modes

2. Dual Wavelength UV-Vis Detector

- Wavelength range 190-700 nm or better
- Accuracy ± 1 nm or better
- Wavelength precision 0.1 nm
- Drift 1×10^{-4} AU/Hour or better
- Noise levels $\pm 0.5 \times 10^{-5}$ AU or better
- Linearity of 2.5 AU (ASTM method) or better
- Detector should be facilitated with a temperature control in the flow cell to prevent the deterioration of spectral resolution, to improve the baseline stability and signal reliability. (Preferable ambient to 50 Degree C or higher)
- Simultaneous Dual wavelength detection with data acquisition speed of 100 Hz or better
- Built in mercury lamp for wave length accuracy check

3. Rheodyne Manual Injector with 20ul and 500ul loop or better with 25ul and 500ul syringe with mounting plate or equivalent or better.

4. Software:

- Software under WINDOWS platform on 32 bit technology

- Digital acquisition & processing system should ensure speed & stability of data
- Single access point for system administration, data acquisition, post run analysis and long –term data management.
- Software should be seamlessly integrated to enable data archiving for instrument to provide 21 CFR parts 11 compliance for electronic signatures and record security.

5. WARRANTY 2 YEARS from the date of Installation of the system.

6. Installation, demonstration of the Instrument & training to the scientific personnel should be inclusive in offer.

B). Price BID:

Price Bid should indicate group-wise price as mentioned in the Technical Bid and kept in a separate envelope duly superscribed as “**Price Bid**” on the outer cover of the envelope.

Price: Price to be quoted both on FOB/CIF/EX WORKS basis for foreign currency or in Indian currency.

Name of the particular port from where our authorized forwarder will lift the consignment must be mentioned clearly with FOB/CIF/EX WORKS price.

Bid Security (EMD): An Account Payee Demand Draft for Rs. 25,000/- (Rupees Twenty five thousand only) drawn in favour of "Indian Association for the Cultivation of Science" payable at Kolkata is to be furnished by the bidders, as Bid Security money or Earnest Money Deposit (EMD) with the tender.

The Demand Draft for the Bid-Security money should have at least 45 (forty five) days validity period after the opening of the Bids.

In case of non-award of the work the Bid Security money would be returned to the unsuccessful Bidders. Bid security money to the successful bidder will be refunded on receipt of the Performance security money.

Performance Security:

An Account Payee Demand Draft for an amount of 10% of the order value drawn in favor of "Indian Association for the Cultivation of Science" payable at Kolkata is to be furnished by the successful bidder as Performance security. Performance security money would be released by IACS after a period of 60 days from the date of completion of all contractual obligations of the supplier including warranty obligations. Bid security money will be refunded to successful bidder on receipt of the Performance security money.

C) GENERAL INSTURCTIONS:

1. Incomplete & conditional tenders and tenders received after the due date will be summarily rejected without assigning any reasons thereof.

2. At any time prior to the bid due date, IACS may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder during pre-bid meeting, modify the bidding documents. The amendment(s) will be notified on the Institute website. Prospective bidders are advised to occasionally visit the website for any amendment.
3. **Payment:** 100% against delivery and successful installation or in advance for the foreign vendors subject to submission of performance guarantee by their Indian agents.
4. **Installation/Demonstration/Application Training at site:** Free of cost by the supplier
5. **Service facility:** Supplier should mention their details of service setup and Manpower in Kolkata who are responsible for after sales support. Response time should be within 24 hours
6. **Validity of tender:** Tender submitted shall remain valid at least for four months from the date of opening the tender. Validity beyond four months from the date of opening of the tender shall be by mutual consent.
7. The tender should accompany a compliance chart.
8. The rate should be inclusive of all taxes, transportation etc. Nothing extra will be paid in addition to the quoted rate.
9. The model number, make, and a printed literature of the product shall submit positively.
10. Proposed delivery schedule should be mentioned clearly.
11. Manufacturers/exclusive distributors/vendors should have history of supplying this type of instrument to this or other Scientific Organizations.
12. Authorized Dealership Certificate is must in case of principal manufacturing company is not quoting directly.
13. Guarantee certificate, users manuals etc. are to be handed over to the user after successful commissioning of the system.
14. At any time prior to the bid due date, IACS may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the bidding documents. The amendment(s) will be notified in the Institute website. Prospective bidders are advised to occasionally visit the website for any amendment www.iacs.res.in/tender
15. In the event of date being declared a closed holiday for purchaser's office, the due date for submission of bids and opening of technical bids will be the following working day at the appointed time.
16. For any clarification regarding technical specifications, etc. please send your queries to Dr Surajit Sinha (ocss5@iacs.res.in).
17. The Institute reserves the right to reject any or all of the tenders received without assigning any reason thereof.

REGISTRAR
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