

**INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE
2A & 2B, Raja S.C.Mullick Road, Jadavpur, Kolkata-700032**

TENDER NOTICE NO: OC/JG/SB/S1/OC-52/2013/14/28 dated 01.07.2014

Sub: Tender for HPLC System

Sealed tenders in two bids system (Technical Bid & Financial Bid) are invited from bonafide, resourceful and eligible manufacturers/exclusive distributors for “**HPLC System**”.

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 where applicable. 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 super scribed with tender notice no. and due date. The bidders may submit bids duly signed in their own letterheads.

The complete tender bids should reach the office of the Department of Organic Chemistry, Indian Association for the Cultivation of Science (IACS), 2A & 2B Raja S. C. Mullick Road, Jadavpur, Kolkata-700032 on or before the scheduled date & time specified below:

Tender Notice No.	OC/JG/SB/S1/OC-52/2013/14/28 dated 01.07.2014
Last date and time of submitting tender:	31 st July, 2014 at 12-30 P.M.
Pre-bid meeting to discuss technical specification	15 th July, 2014 at 3.00 P.M.
Date and time of Technical Bid opening	31 st July, 2014 at 3.00 P.M. J.C. Bose Hall.
Place of opening tender	IACS, Kolkata
Contact	e-mail: ocjg@iacs.res.in Tel. +91-33-2473 4971 (Extn. 1426)

The technical bids will be opened first to evaluate the technical specifications of the equipment thereafter, the Price bids of only technically qualified bidders will be opened.

Technical Bid Evaluation: The Technical Bids will be evaluated in the presence of the representatives of intending bidders who will be able to clarify technical aspects of their bids, if any, required by the Technical Evaluation Team.

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 stand rejected.

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

1. TECHNICAL BID:

The Technical Bid should contain technical specifications and kept in a separate envelope duly super scribed as "Technical Bid" on the outer side of the envelope as detailed above.

Specifications for HPLC System

Pump:

- Gradient formation: High pressure binary mixing
- Solvent delivery unit with two individual pumps is preferred
- should have high precision dual plunger design
- Pump flow rate range: 0.001mL to 10.0 mL or better
- Maximum operating pressure up to 40 MPa or higher
- Flow rate accuracy: $\pm 1\%$
- Pulsation: 0.5 MPa or better
- Flow rate precision: 0.06% RSD
- Should have self diagnostic and auto purge feature
- Should have automatic plunger rinsing kit
- Should have gradient mixing for analytical, semi-micro & semi-prep modes

Degasser:

Degasser should have two or more channel membrane degassing and Ghost peak reduction capability.

Detectors:

Both the detectors must be capable of working in analytical and small scale preparative mode.

A) Photodiode Array detector:

- Light Source: D2 and W lamps
- No of Diodes: 512
- Wavelength accuracy: $\pm 1\text{nm}$
- Wave length precision: $\pm 0.1\text{nm}$
- Noise: $0.6 \times 10^{-5}\text{AU}$ or better
- Wavelength range: 190-800 nm or higher
- Drift: $0.5 \times 10^{-3}\text{Au/hr}$ or better
- Band width of 1.2 nm for high peak resolution
- Flow cell must be temperature controlled from ambient to 50°C or higher
- Wave length accuracy check facility should be available with Mercury lamp
- Data Acquisition rate should be 80 hz or higher

B) Refractive Index Detector :

- Refractive Index Range: 1~1.75 RIU
- Noise Level : Less than 2.5×10^{-9} RIU
- Drift : Less than 1×10^{-7} RIU/hr
- Range : 1~ 5000×10^{-6} RIU
- Response : 0.05 ~ 10 seconds, 10 step selection
- should have automatic Cell Temperature controller up to 50°C or higher

Auto Sampler:

- Injection time should be 10 sec for 10 μl of sample

- Sample carryover: 0.005% or better
- Should have sample cooler with De humidifying function 4°C to 40°C.
- Injection volume precision: RSD 0.3%
- Injection volume range: 0.1 µL to 100 µL or better
- Sample capacity : 1mL sample tray of >150 vials, 1.5/2 mL sample tray of ≥ 50 vials
- and >190 well plates (MTP) .

Column Oven:

- Should have forced air circulation for uniform temperature distribution.
- Should accommodate at least 6 columns of 250 mm length.
- Should have temperature regulation from ambient plus 10 °C to 80 °C or better.

Software:

- Software should be compatible with WINDOWS platform on 32 bit technology and to be offered directly from the manufacturer of the HPLC system.
- The digital acquisition & processing system should ensure speed & stability of data.
- Should have 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

1. Columns: C8 column 250 x 4.6 mm x 5 micron-1no.with Guard column.
2. HPLC Start-up kit with 4 no's of solvent bottles should be supplied.
3. Reservoir tray should be provided.
4. 1000 Pieces of 1/1.5 mL sample vials with cap and septum and 25 pieces of >190 well plates (MTP)should be provided.
5. PC with LCD monitor, PRINTER & UPS 2KVA with 45 mins backup should be supplied.
6. Installation, demo of Instrument and all related expenses to supply instrument up to the Lab has to be borne by the supplier.

Technical compliance chart should be provided following the following format*

Sr. No.	Tender specification	Your offered instrument specification	Extent of compliance

*Tender will not be accepted if the technical compliance chart is not provided following the above format.

User List: The supplier should provide a list of current users (with contact no, e-mail address etc) for the quoted item in India.

Service facility: Trained Engineers technicians should install the instrument and ensure that it is operating correctly and within specifications. User training at site should also be provided free of cost. Supplier should mention their details of service setup that are responsible for after sales support.

2. PRICE BID:

The financial bid indicating (item-wise) price for the item(s) mentioned in the technical bid should be kept in a separate sealed envelope duly super scribed as "PRICE BID" on the outer cover of the envelope as already detailed above. The price bids of only technically qualified bidders will be opened and they will be intimated the date and time of opening at their email id-(s). Rest of the bids will stand rejected.

PRICE: Price to be quoted on CIF to kolkata Airport.

3. BID SECURITY:

Bid Security (EMD):

1. An Account Payee Demand Draft of Rs. 50,000/-(fifty thousand only) drawn in favour of "Indian Association for the Cultivation of Science" is to be furnished by the bidders except those who are registered with the Central Purchase Organizations, National Small Industries Corporation or the concerned Ministry or Department, as Bid Security money or Earnest Money Deposit (EMD). EMD to be paid by the Indian Agent in INR.
2. The Demand Draft for the Bid-Security money should have at least 45 (forty five) days validity period after the opening of the Bids.
3. In case of non-award of the work the Bid Security money would be returned to the unsuccessful Bidders.

4. PERFORMANCE SECURITY:

An Account Payee Demand Draft of 10% of the order value in the name of "Indian Association for the Cultivation of Science" is to be furnished by the successful bidder as "Performance Security" money in INR. Performance security money should remain valid for a period of 60 (sixty) days beyond 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.

GENERAL INSTRUCTIONS:

1. Submitting Tender: The Tender must contain materials related to these specifications only. The technical bid should not have any mention of pricing. The prices should be inclusive of all charges (taxes/duties as applicable, shipping charges,

delivery at site, installation etc.) with clearly indicated breakups. Fax, e-mail Tender will not be accepted.

2. Incomplete & conditional tenders and tenders received after the date will be summarily rejected without assigning any reasons thereof.
3. Tender Notice Number and tender for “**HPLC System**” should clearly be written on the envelope.
4. 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 (www.iacs.res.in/tender) for any amendment.
5. Payment: 100% against delivery and successful installation or in advance for the foreign vendors subject to submission of performance guarantee by their Indian agents .
6. Warranty: Three years warranty should be provided from the date of installation of the system. Supplier should also quote two years AMC charges separately from the date of expiry of the standard three years warranty.
7. Installation/Demonstration/Application Training at site: Supplier should arrange for the application training free of cost by their personnel for minimum three working days after the installation of the system.
8. 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.
9. Validity of tender: Tender submitted shall remain valid at least for three months from the date of opening the tender. Validity beyond three months from the date of opening of the tender shall be by mutual consent.
10. The tender should accompany a detailed technical compliance chart.
11. The rate should be inclusive of all taxes, transportation etc. Nothing extra will be paid in addition to the quoted rate.
12. The model number, make, and a printed literature of the product shall be submitted positively.
13. Proposed delivery schedule should be mentioned clearly.
14. Manufacturers/exclusive distributors/vendors should have history of supplying this type of instrument to this or other Scientific Organization.

15. Authorized Dealership Certificate is mandatory in case of principal manufacturing company is not quoting directly.
16. Guarantee certificate, users manuals etc. are to be handed over to the user after successful commissioning of the system.
17. 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.
18. In case of any dispute, the decision of the Institute authority shall be final and binding on the bidders.
19. For any clarification regarding technical specifications etc. please send your queries to "Dr. Joyram Guin" ocjg@iacs.res.in.
20. The Institute reserves the right to reject any or all of the tenders received without assigning any reason thereof.

Registrar