

Indian Association For The Cultivation of Science

Jadavpur , Kolkata – 700032

Tender Notice

NIT No. : IACS /Ing.Chem/Prof.H.Rath/2017-18 /02

Date: 28/04/2017

Sealed tender in two bids system (technical bid and price bid) is invited from bonafide, resourceful, and eligible manufacturer/exclusive distributor/vendors to purchase a **"Automated Flash Chromatography System with accessories "**

Part-I (Technical Bid) of the tender should contain technical specifications in detail as well as commercial terms and conditions. Part-II (Price Bid) should clearly indicate group-wise price, if needed, as mentioned in the technical bid. The Technical Bid and Price Bid are to be submitted in separately sealed envelopes, distinctly marked accordingly and both to be put inside another envelop, that should be sealed and superscribed with tender notice no. and due date. The bidders may submit bids duly signed in their own letterheads.

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

Tender Notice No.	IACS/Inorg.Chem/Prof.H.Rath/2016-17/02 Date:28/04/2017
Last date and time of submitting tender	27/05/2017 upto 2.00PM
Pre-bid meeting to discuss technical specification	11/05/2017 at 3PM
Date and time of opening tender(Technical Bids)	27/05/2017 at 4PM
Date and time of opening of Price Bids	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.
Contact Details	Email: ichr@iacs.res.in

The technical bids will be opened first to judge/evaluate the technical specifications of the said instrument and 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 be rejected.

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.

The Technical Specifications acceptable for the **"Automated Flash Chromatography"** are as follows:-

Automated Flash Chromatography system specifications:

1. Compact bench top model.
2. Capable of computer controlled independent delivery of **four solvents** inlets for binary gradient mode and isocratic mode, 2 step Gradient and Rf gradient.
3. Solvent flow rate: 5 to 70 mL/min or above.
4. Pumping system with pumping capacity of 10 Bars/ 145 psi or more.
5. The system to have the facility to use Inject / sample loading column with pre packed adsorbent to trap high polar solvent without affecting the sample separation.
6. Variable Wavelength UV VISIBLE Detector range from 200-800 nm or better. The detector should have facility to upgrade with the **external detector, ELSD or RIAs** and when requires.
7. Automatic fraction collection. Fraction tracking facility with peak to tube graphical interface.
8. Touch-screen controlled software for operation of the machine.
- 9.

Application software :

- Eluting position controllable

• Simple & easy change of method parameters on the fly
• Automatic method set-up based on inputting TLC Rf value for the single target compound and/or multiple targets
• Visual indication to predict where and when the target compound will elute
The Software should have capability to display the maximum chargeable (CRUDE) sample volume for the selected column OR select the most suitable column to match the (CRUDE) sample size by just inputting the Rf value
• Real time monitoring
• Branded PC All in ONE Touch Pad with latest windows based operating system, minimum 2 GB RAM, hard disk 300 GB (minimum)

10. The system & software should have facility to upgrade **OR** connect the TLC Image Reader (to be quoted optional) and **calculate the Rf value Automatically and create the chromatography Gradient method automatically.**
11. System supplied with Racks for 18x150 mm test tubes with minimum to collect 120 fractions or above.
12. Safety features like automatic stop of flow if **collection tray (Rack) is full or Rack not in place and pressure moderating system.**
13. The system and software have facility to connect 2 columns in Series/ Tandem Mode to separate the very close TLC spot compound and to increase the sample loading capacity and set the method automatically.
14. The System must be capable to use from 4 gm to 300gm disposable pre packed Silica / RP Columns.
Supplied with 40g of
Silica Column -- 10 no's,
Amino column -- 5no's,
RP C18 Column --- 5 no's
15. Supply Empty self packing glass columns size of 40mm ID X 300mm length and 30x200mm to fill approximately 250gm and 90gm adsorbent and with stand the pressure of up to 20bars
16. Operating voltage : 230V/50Hz
17. 2 Empty Glass Columns : (a) **One with Apprx. Adsorbent filling of 250gm, Neck ID (20 MM), Column ID (20MM) , Length (300 MM)and (b) 2nd one with adsorbent filling of 90gm , Nek ID (20MM) , Column ID (20MM) , Length (200MM) and both the columnsto include corresponding Teflon Adopter (Plug) with lock nuts& filters.**

Warranty: - Three years on-site warranty for all components.

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

Service facility: Supplier should mention their details of service setup, who are responsible for after sales support.

2. **PRICE BID:** The financial bid indicating item-wise price for the items 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 bid 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 opened both on FOB/CIF basis. Name of the particular part from where our authorized forwarder will lift the consignment must be mentioned clearly with FOB price.

BID SECURITY:

1. An Account Payee Demand Draft/ Pay Order for **Rs. 65,000/-** (Rupees Sixty five thousandonly) drawn in favor of "**Indian Association for the Cultivation of Science**" is to be furnished along with Technical Bid as Bid Security money (or EMD). Bidders registered with the Central Purchase Organizations, National Small Industries Corporation etc. may be exempted from paying EMD subject to their submission of a copy of valid registration certificate with their Technical Bids, failing which their bids will be rejected.
2. The Demand Draft/ Pay Order 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 bidders.

PERFORMANCE SECURITY:

1. An Account Payee Demand Draft/Bank Guarantee of Rs. 1,30,000(Rupees One Lakh Thirty Thousand Only) drawn in favour of "**Indian Association for the Cultivation of Science**" is to be furnished by the successful bidder to be awarded the contract, as "Performance Security" money.
2. Performance Security 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.

3. Bid Security would be refunded to the successful bidder on receipt of Performance Security.

GENERAL INSTRUCTIONS:

1. Incomplete & conditional tenders and tenders received after the date will be summarily rejected without assigning any reasons thereof.
2. Tender Notice Number and tender for "**Automated Flash Chromatography with Accessories**" should clearly be written on the envelope.
3. At any time prior to the bid due date, IACS may, for any reason, shether 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.
4. Payment: 100% against delivery and successful installation subject to submission of performance guarantee.
5. Warranty: Minimum 3 years.
6. Installation/Demonstration/Application Training at site: Free of cost by the supplier.
7. 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.
8. Validity of tender: Tender submitted shall remain valid at least for three months from the date of opening the tender. Validity beyond four months from the date of opening of the tender three months from the date of opening of the tender shall be by mutual consent.
9. The tender should accompany a compliance chart.
10. The rate should be inclusive of all taxes, transportation etc. Nothing extra will be paid in addition to the quoted rate.
11. The model number, make, and a printed literature of the product shall submit positively.
12. Proposed delivery schedule should be mentioned clearly.
13. Manufacturers/exclusive distributors/vendors should have history of supplying this type of instrument to this or other Scientific Organization.
14. Authorized Dealership Certificate is must in case of principal manufacturing company is not quoting directly.
15. Guarantee certificate, users manuals etc. are to be handed over to the user after successful commissioning of the system.
16. 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.
17. In case of any dispute, the decision of the Institute authority shall be final and binding on the bidders.
18. For any clarification regarding technical specifications etc. please send your queries to "Dr. Harapriya Rath" ichr@iacs.res.in.
19. The Institute reserves the right to reject any or all of the tenders received without assigning any reason thereof.

Acting Registrar