

INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE
2A & B, RAJA S.C.MULLICK ROAD
JADAVPUR, KOLKATA -700032

TENDER NOTICE No: IACS/PSU/AKN/SERB(SN/SI/OC-11/13)/13/49 dated 10.12.2013

Sub: Purchase of “Gel Permeation Chromatography(GPC)”

Indian Association for the Cultivation of Science invites tender for “**Gel Permeation Chromatography (GPC)**” . The bids are to be submitted in Two-Bid pattern i.e. Technical Bid and Price Bid in two separate sealed covers distinctly marked accordingly and both to be put inside another envelope, which should be sealed and superscribed with tender reference no., due date and time of opening. Two bids, i.e. Technical Bid and Price Bid, should be identical in all respect except that the Technical Bid should have blank space at the places where prices have been stated in the Price Bid.

Complete tender should reach the **Office of the Polymer Science Unit, Indian Association for the Cultivation of Science, 2A &2B, Raja S. C. Mullick Road, Jadavpur, Kolkata-700032, India** on or before scheduled date & time specified below.

Tender Notice No.	IACS/PSU/AKN/SERB(SB/SI(OC-11/13)/13/49 dated 10.12.2013
Last date and time of submitting tender	January 06,2014 at 11.30 AM
Pre-bid meeting to discuss technical specifications	December 17, 2013 at 4.00 P.M.
Date and time of opening tender	January 06, 2014 at 12:30 P.M.
Place of opening tender	J.C.Bose Hall at IACS Main Building
Contact	Email: psuakn@iacs.res.in , Tel: +91-33- 247 4971 (extns: 1561)

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. The date of opening the Price Bids will be intimated to the short-listed bidders at their contact addresses. The rest of the bids will be rejected.

1). TECHNICAL BID:

“Technical Specifications: “**Gel Permeation Chromatography System (GPC)**.”

A complete set of GPC instrument consisting of :

GPC Pump:

1 Nos. of GPC dual reciprocating programmable, free standing pump with following features:

- Programmable flow range: 0.001 – 10 000ml/min with 0.001 ml/min increment or better.
- The system should be capable of delivering precise volumes of mobile phase with minimum 15step/μl or better.
- Flow Precision: 0.1% RSD or better.
- Maximum Pressure: 6000 psi or better.
- Flow accuracy : ± 1% or better
- The system should be capable to withstand the retention time variations of less than 0.1% for highly reproducible peak performance.

Injector:

- Standard Rheodyne injector with 20μl loops and 25 μL syringe.

Detector:

Refractive Index (RI) Detector:

Standard RI detector, consisting of:

- Programmed via its own front panel or through external controller
- Programmable functions of range, autozero and auto purge
- Thermostated 10μl flow cell from ambient to 55°C
- Refractive Index Range 1.00 to 1.75 RIU
- Measurement Range 5.0×10^{-4} RIU to 7.0×10^{-9}
- Linear dynamic range of <5% over $\pm 5.0 \times 10^{-4}$ RIU
- Noise level $\pm 1.5 \times 10^{-9}$ RI units
- Drift 2.0×10^{-7} RIU/hour
- Automated purging of reference cell allows unattended operation
- Output signal auto zeroes upon sample injection or reference cell purge

Software:

User friendly GPC software compatible with RI Detector capable of following:

- Molecular Weight Distribution, Calculation of Number average, weight molecular weights and polydispersity, all GPC parameters to comply.
- Customised Sample analysis report to be generated.
- All functions and features accessible from a single window use the command bar to navigate
- Instrument, processing and reporting parameters in one place.

Columns and required standards:

- THF Column for 500 to 20,000 Mol Wt – 1no
- THF Column for 5000 to 6,00,000 Mol Wt – 1no

- THF Column for 6 lakhs to 40 lakhs Mol Wt – 1no
- DMF Column for 500 to 20,000 Mol Wt – 1no
- DMF Column for 5000 to 6,00,000 Mol Wt – 1no
- DMF Column for 6 lakhs to 40 lakhs Mol Wt – 1no
- Polystyrene Std. Kit and PMMA Md. Mw. Std.Kit

Essential Accessories: Vender should quote the following essential accessories to run the instrument:

- Latest branded PC suitable for loading the GPC software of above mentioned specification.
- A branded 2 KVA UPS with 30 minutes backup.

2) PRICE BID:

The Price Bid should be super scribed as “**PRICE Bid**” on the outer cover of the envelope.

1) 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 superscribed 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 of price bids at their email id-(s). Rest of the bids will stand rejected.

2) Price: Price to be quoted both on FOB/CIF 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 price.

3) BID SECURITY:

1) An Account Payee Demand Draft of Rs.36,000/-(Rupees thirty six thousand only) in the name of "Indian Association for the Cultivation of Science" is to be furnished by the bidders, as Bid Security money or Earnest Money Deposit (EMD).

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 an amount 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. Performance security money should remain valid for a period of 60 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. Incomplete & conditional tenders and tenders received after the due date will be summarily rejected without assigning any reasons thereof. **“Gel Permeation Chromatography System”** should clearly be written on the envelope.
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 (www.iacs.res.in/tender) for any amendment.
3. Payment: 90% against delivery and 10% against successful installation subject to submission of 10% performance guarantee.
4. Warranty: Minimum 3 years with annual maintenance contract (free of additional charge)
5. Installation/Demonstration /Application Training at site: Free of cost by the supplier
6. User list: The supplier should provide a list of current users (with contact no, Email address etc) for the quoted item in India.
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. The 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
9. The tender should accompany a compliance chart. A technical compliance chart should also be provided following the given format:

Serial Number	Tender Specification	Specification of you offered instrument	Extent of compliance
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 be submitted 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. Incomplete tenders will be summarily rejected.

17. For any clarification regarding technical specifications, etc. please send your queries to "**Prof. Arun Kumar Nandy**" psuakn@iacs.res.in

18. 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.

19. **Acceptance of Tender:** IACS authority does not bind itself to accept the lowest tender and reserves the right to reject any or all the tenders received without assigning any reason thereof.

REGISTRAR