



**STARTUP
INCUBATION AND
INNOVATION
CENTRE
IIT KANPUR**

Tender: Ref NO: Equipment/ DJAC Building/IIT/FIRST/DP/20-08-2025

To,
Foundation for Innovation and Research in Science & Technology
IIT Kanpur Kalyanpur Kanpur UP 208016

Invitation for Quotations of equipment's for our DJAC Building at FIRST of IIT Kanpur.

Sealed Quotations (**technical bid and financial bid, separately inside the main envelop**) along with **Certificate or Authorization Letter** are invited as per the specifications provided in the below table for the items from the **authorized suppliers**. The sealed quotation should reach the undersigned on or before **01-09-2025** before 1700 hrs. Through registered/ speed post/courier/by hand.

The envelope must be inscribed with "Quotation for the Tender: **Ref NO: Equipment/ DJAC Building /IIT/FIRST/DP/20-08-2025**

The Quotations would be evaluated separately

HPLC SYSTEM	SPECIFICATIONS (Water HPLC System with PDA & ELS Detector)
Solvent Delivery System with autosampler	<p>Quaternary Gradient system</p> <ul style="list-style-type: none">• Low-pressure quaternary gradient mixing system• Solvent selection: Up to four solvents or better• Flow Rate Range: 0.01 to 10.000 ml/min with 0.001 ml increment• Seal Wash: Integral, active and programmable• No. of Gradient Steps: Maximum 11 curves including linear, step (2), concave (4) and convex (4)• Maximum Operating Pressure: Upto 5000 psi• Flow precision: $\leq 0.075\%$ RSD• Flow accuracy: $\pm 1.0\%$ or better• Compositional accuracy: $\pm 0.5\%$• Compositional precision: $\pm 0.15\%$ RSD• Composition Range: 0 to 100%• Total system dwell volume: < 1.2 mL or better• Gradient Profile: 11 gradient curves (Including linear step(2),concave(4),convex(4)• pH control with range 1 to 12.5• Solvent conditioning: Integrated vacuum degassing unit, four chambers• Plunger seal wash: Integrated, active and programmable• Wet priming: Automatic and software-assisted automated solvent purging and priming function

Sanjay



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Autosampler/ Sample Manager	<ul style="list-style-type: none"> Injection volume: Full volume injection or variable volume injection of 0.1 to 100 μl without any sample loss Sample processing: 120 vials, configured in five carousels of 24 each Sample Delivery Precision: <0.5% or better Accuracy: ± 1 μl or better Sample carryover: $\leq 0.0025\%$ or better Sample compartment temperature control: Direct cooling for temperature setting from 4 to 40°C with 1°C increments Injection Linearity: >0.999 Advance Operation: Priority Samples, Auto-additions, Auto-standards
PDA Detector	<ul style="list-style-type: none"> Wavelength Range :190-800nm Wavelength Accuracy: +1nm Wavelength Repeatability: +0.1nm Photodiodes should be 512 or more Digital resolution: 1.2 nm/pixel Linearity range: < 5% at 2 AU, propylparaben at 257nm Base line noise: 10×10^{-6} Au, Drift: $< 1.0 \times 10^{-3}$ /Au/hr/°C, dry cell 254nm Standard Flow Cell Volume: 8.4 μL □ Data acquisition rate: Upto 80Hz.
	<ul style="list-style-type: none"> Light source: (Single Lamp) Deuterium lamp with 2000 hour warranty Light source: Deuterium lamp Path length 10 mm Flow cell design: Taperslit for reduced RI effects
Columns- Compartment	<ul style="list-style-type: none"> Column Heater: 20 to 65°C in 1°C increment
ELSD	<ul style="list-style-type: none"> Light source: Tungsten halogen polychromatic front mounted ,pre-aligned user installable Nebulizer flow rate: 300 to 3000ul/min Detector: Photomultiplier tube Scattering angle: 60 Degree Gain Setting: 0 to 1000 Sampling Rate: Upto 80 points/s Nebulizer heater power: 0 to 100% Measurement Range:0.1 to 2000.0 LSU Drift tube: Ambient+5 to 100°C, 0.1°C increment Optics: Heated optics bench (constant 50 °C) Filter time constant: Hamming, 0.0 to 5.0 s Gas supply: Nitrogen,to be supplied at least 65psi.
Software	<ul style="list-style-type: none"> The software should be original, authenticated. Should have option for versatility for multitasking without multiple software packages. Customizable data reports, online help, and answer wizards. Should have option for data integrity along with advanced security measures. Licensed Oracle Database must be supplied separately or embedded in software for better organization and easy retrieval or work and system user data. Suitable software to control complete HPLC system in various format viz. ANDI/chromatography/ ASCII text format/Excel file format/Adobe acrobat

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	file format etc. to acquire and processing of data with 21 CFR Part II : compliance including AUDIT TRAILS, ONLINE CUSTOMER CALCULATIONS and E SIGNATURE.
Warranty	● One-year warranty

Terms & Condition

1. Each bidder shall submit only one quotation.
2. FIRST reserves right to accept or reject any or all bid(s) without assigning any reason.
3. It may be mandated to present the bids in-person at FIRST, IIT Kanpur and bidder shall be ready for it without any prejudice.
4. The bidder should be a reputed vendor and should have establishment of more than 5 years old. Copy of certificate of Establishment should be provided with the Technical Bid.
5. The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the purchase order.
6. Any exemption from EMO submission shall not be allowed. The Bidders MUST enclose the required EMO to participate for the tender.
7. The defect liability period of One year from the date of completion of Work and final completion report duly acknowledged by FIRST.
8. The Bidder should quote for all items of the tender. Any tender for Part item will be rejected outrightly. An undertaking on the company letter head confirming the same should be enclosed with tender.
9. No Deviation in the technical specifications for any product shall be accepted at all. The bid must include every specification dimension and the details of manufacturer for each items. The images provided in the Tender document are for the reference purpose only.
10. Financial bids of technically qualified and approved bidders shall be opened.
11. Financial evaluation is purely done on the total financial implication.
12. Any Superfluous, unreasonable assets rate quotes will be summarily rejected.
13. If the documents as well as the samples submitted by the bidder would not be up to the mark as per the tender requirement, the tender of such bidders would be rejected and the financial bid would not be opened.

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14. Quotations from the bids that do not meet the technical criteria set in the tender document will not be considered irrespective of the price or any other criteria.
 15. In item description, it is not necessary to buy all the items from the same seller. You can buy
 16. Different items from different sellers.
 17. Payment shall be made in 50% acceptance of the goods and 50% after delivery with successfully installation.
 18. In - Charge will be appointed by FIRST for supervision of work and verification of Bills.

Prof. Deepu Philip
Director, FIRST

Address for Quotation:

Prof. Deepu Philip

Office No. S7, Second Floor
FIRST, SIIC Centre, Sixth Avenue,
Indian Institute of Technology Kanpur
Kalyanpur, UP- 208016 INDIA