



# भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान मोहाली

शिक्षा मंत्रालय, भारत सरकार द्वारा स्थापित  
सैक्टर 81, नॉलेज सिटी, प. ओ. मनोली, एस. ए. एस. नगर, मोहाली, पंजाब 140306  
INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH MOHALI

(Established by Ministry of Education, Govt. of India)

Sector-81, Knowledge city, PO-Manauli, SAS Nagar Mohali-140306, Punjab

PAN No. - AAAAI1781K GSTIN - 03AAAAI1781K2ZS

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CPPP/Institute Website

IISERM(1631-2)23/24-Pur-GTE

Dated: 22<sup>nd</sup> January 2024

## वैश्विक ई-निविदा पृछताछ / GLOBAL E-TENDER ENQUIRY

सहायक उपकरण के साथ प्रोटीन शुद्धि प्रणाली/फास्ट प्रोटीन तरल क्रोमैटोग्राफी (एफपीएलसी) प्रणाली की आपूर्ति और स्थापना के लिए दो बोली प्रणाली में निदेशक, आईआईएसईआर मोहाली की ओर से ऑनलाइन निविदाएं आमंत्रित की जाती हैं। तकनीकी विनिर्देश और नीचे दिए गए विवरण के अनुसार और सीपीपीपी पर मूल निर्माता/आपूर्तिकर्ता से बीओक्यू सूची अर्थात् <https://eprocure.gov.in/eprocure/app> निविदा दस्तावेज ई-प्रोक्योरमेंट पोर्टल की वेबसाइट <https://eprocure.gov.in/eprocure/app> और संस्थान की वेबसाइट [www.iisermohali.ac.in](http://www.iisermohali.ac.in) से डाउनलोड किए जा सकते हैं।

Online tenders are invited on behalf of the Director, IISER Mohali in **TWO BID SYSTEM** for the **Supply and Installation of Protein Purification System/Fast Protein Liquid Chromatography (FPLC) System with accessories** as per technical specification and details given below and BOQ list from the original manufacturer/supplier at CPPP i.e. <https://eprocure.gov.in/eprocure/app>. Tender documents may please be downloaded from the E-procurement portal website <https://eprocure.gov.in/eprocure/app> & Institute website [www.iisermohali.ac.in](http://www.iisermohali.ac.in).

Sd/-

सहायक कुलसचिव (क्रय तथा भंडार)  
Assistant Registrar (Stores & Purchase)



# भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान मोहाली

शिक्षा मंत्रालय, भारत सरकार द्वारा स्थापित  
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## वैश्विक ई-निविदा पृष्ठताछ / GLOBAL E-TENDER ENQUIRY

Tender Ref.- IISERM(1631-2)23/24-Pur-GTE	Dated : 22 <sup>nd</sup> January 2024
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### Critical Date Sections

Sr.	Description	Date	Time
1.	Tender Publishing Date and time	22 <sup>nd</sup> January 2024	6:00pm
2.	Tender Document download start Date & Time	22 <sup>nd</sup> January 2024	6:00pm
3.	Bid Submission start Date & Time	22 <sup>nd</sup> January 2024	6:00pm
4.	Bid Submission End date and Time	21 <sup>st</sup> February 2024	Upto 02:30pm
5.	Tender opening Date and Time	22 <sup>nd</sup> February 2024	At 3:30pm

Online tenders are invited on behalf of the Director, IISER Mohali in **TWO BID SYSTEM** for following item(s) from the original manufacturer/supplier at CPPP i.e. <https://eprocure.gov.in/eprocure/app>. Tender documents may please be downloaded from the E-procurement portal website <https://eprocure.gov.in/eprocure/app> & Institute website [www.iisermohali.ac.in](http://www.iisermohali.ac.in). Online Tender fee of Rs 590/- (Non-refundable) should be submitted by bidder in favour of IISER Mohali through Online mode in Institute Account (Canara Bank Saving Account Number 4790101001912 and IFSC Code CNRB0004790). However, scanned copy of the Tender fee/UTR copy should be uploaded on website along with technical bid. **Micro & MSME/NSIC and Firms registered and the firms registered with concerned Ministries/ Departments, the bidders are exempted from payment of Tender Fee as per GOI notifications/GFR (2017) and Ministry of Finance OM No. F.9/4/2020-PPD dated 12 November 2020.**

**Bidders will also be required to execute bond/undertaking Bid Security Declaration Form attached as ANNEXURE-I for availing exemption to submit Tender Fee.**

## **ITEM WISE DETAILS**

<b>S. No.</b>	<b>Description</b>	<b>Qty. (in units)</b>
<b>1.</b>	<b>Supply and Installation of Protein Purification System/Fast Protein Liquid Chromatography (FPLC) System with accessories.</b>  <b><u>Technical Specification: As per Annexure II.</u></b>	<b>01</b>

### **A) IMPORTANT NOTES:-**

- I. The online updated Price BOQ is in INR format. If bidder want to quote other than INR please specify the quoted currency in the Technical Bid/Part and fill the amount in same updated BOQ.**
- II. Please bifurcate the price on shipping terms i.e. Ex-works -> FCA/FOB -> CIP/CIF in price BOQ and specify the same in technical bid without price.**
- III. If quoted in foreign currency, kindly clearly specify the terms of delivery/country of origin/bank details with swift code/weight/size/dimension of shipment.**
- IV. Restriction under Rule 144 (xi) of the General Financial Rules (GFRs), 2017 under sub clause 3, in terms of DOE, MoF No. F.18/37/2020-PPD dated: 8<sup>th</sup> February, 2021:**
  - (i) A bidder is permitted to procure raw material, components, sub-assemblies etc. from the vendors from countries which shares a land border with India. Such vendors will not be required to be registered with the Competent Authority, as it is not regarded as "sub-contracting".
  - (ii) However, in case a bidder has proposed to supply finished goods procured directly/indirectly form the vendors from the countries sharing land border with India, such vendor will be required to be registered with the Competent Authority. Kindly submit the declaration in Annexure III.
- V. The Online bids should be submitted directly by the original manufacturer/supplier/OEM, the OEM is required to furnish certificate to this effect. If quotation is submitted/filled by any representative/ agent/dealer then they must upload a Authorization Authority certificate from the principal company/OEM.**
- VI. All MSME/NSIC/Startup Units shall be considered as per provisions/rules prescribed by Govt of India.**
- VII. Auto-extension of last date for E-Tenders has been activated by CPP Portal which has participation 2 bids or less.**

### **B) SUBMISSION OF TENDER**

- I. All bid/tender documents are to be uploaded online at Central Public Procurement portal i.e. <https://eprocure.gov.in/eprocure/app> only and in the designated cover/ part on the website against tender ID. Tenders/ bids shall be accepted only through online mode and no manual submission of the same shall be entertained. Also upload **Annexure I** (Bid Securing Declaration Form) if registered as **Micro & MSME/NSIC and Firms registered and the firms registered with concerned Ministries/ Departments.** Late tenders will not be accepted.**
- II. The online bids shall be opened at the office of the Assistant Registrar (S&P), IISER Mohali, on above given date and time. If the tender opening date happens to be on a holiday or non-working day due to any other valid reason, the tender opening process will be attended on the next working day at same time and place. IISER Mohali will not be responsible for any error like missing of schedule data while downloading by the Bidder.**

- III. **The bidder shall upload the tender documents/NIT duly filled in and stamped by the authorized signatory on each and every page along with all Annexures as per NIT along with checklist and Annexures. Tender not submitted/uploaded in the prescribed form and as per the tender terms and conditions shall be liable for rejection.**

**Check List of Documents (signed & stamped) to be provided and uploaded by the bidder:**

S. No.	Particulars of Documents	Yes/No	Page No. (As per technical bid)
1.	<b>Tender Notice Document Copy of NIT (Signed and stamp on all pages)</b>		
2.	Undertaking Bid Security Declaration Form – <b>Annexure-I</b> (on letter head duly signed and stamped)		
3.	<b>Technical Specification/Compliance Sheet with product catalogue/brochure etc. to be furnished in Annexure-II (as per technical requirements and specifications) with currency quoted (duly signed and stamped)</b>		
4.	<b>Authorization/MAF Certificate</b> from OEM (principle)/Manufacturer certificate, if applicable ( <b>signed copy</b> )		
5.	<b>Tender Fee</b> , if applicable or Exemption Certificate (NSIC/MSME Certificate)		
6.	<b>Land border sharing declaration in Annexure-III</b>		
7.	<b>Attached copy of PAN Card</b>		
8.	<b>Attached copy of GST</b>		

*\* If checklist is not provided by the bidder alongwith ABOVE DOCUMENTS the bid shall be summarily rejected.*

- IV. The bidder shall upload scanned copy of the PAN Card, GST number duly signed and stamped. **Also bidders applying against ‘MSME/NSIC Certificate’ issued by appropriate Authority, should ensure that the certificate attached is relevant to the area of service/supply. For example, If the tender is for “supply & installation of Desktop” the certificate should be issued for activity/area of “Computer supply and services activities etc” otherwise bid will be REJECTED without notice.**
- V. E-procurement system ensures locking on the scheduled date and time. The system will not accept any bid after the scheduled date and time of submission of bid.

**C) INSTRUCTIONS**

1. The Online bids should be submitted directly by the original manufacturer/supplier, If quotation is submitted/filled by any representative/agent/dealer then they must upload a authority certificate from the principal company for quoting the price otherwise such quotation will be rejected.
2. The quantity mentioned in this inquiry is and shall be deemed to be only approximate and will not in any manner be binding on the Institute. Before the deadline for submission of the online bid, IISER Mohali reserves the right to modify the tender document terms and conditions. Such amendment/modification will be notified on website against said tender ID.
3. The rates offered should be FOR Chandigarh/Mohali in case of firms situated outside Chandigarh/Mohali, and free delivery at the Institute premises in case of local firms. Conditional tenders will be summarily rejected.
4. In case of Ex-godown terms the amount of packaging forwarding freight etc. should clearly be indicated by percentage or lump sum amount in the BOQ. Institute has policy not to make any advance payments towards any purchase, Letter of credit can be opened upto

maximum of 90% for the shipment value and balance 10% through wire transfer subject to fulfilling the conditions of purchase order (on INCO-TERMS CIP/CIF etc.), if required.

5. **Custom Duty, applicable as per GOI Norms.**
6. **GST, applicable as per GOI Norms.**
7. **Bidder/s quoting in currency other than Indian Rupee (INR) should explicitly mention the currency (USD, Euro, JPY, CHF and Pound-Sterling etc.) in which tender quoted wherever applicable in Technical Bid along the tender documents.**
8. The delivery period should be specifically stated. Earlier delivery will be preferred.
9. **The firms are requested to provide/upload detailed description and specifications together with the detailed drawings, printed leaflets & literature of the article quoted and also should enclose Technical Compliance Sheet.** The name of the manufactures and country of manufacture should also invariably be stated. In the absence of these particulars and documents, the quotation is liable for rejection. Tenders not accompanied by detailed information as required, are liable to be rejected.
10. If any information furnished by the bidder is, at any stage found to be incorrect, false or fabricated, the Institute/purchaser shall have the absolute right to forfeit E.M.D. and security deposits, in addition to cancellation of contract, forfeiting the warranty/performance Guarantees and other action in accordance with law, such as black-listing, risk & cost etc.
11. Validity of offer: 180 days.
12. The warranty period after satisfactory installation should be mentioned and firm should replace all manufacturing defect parts/ whole item under warranty without any extra cost including clearance, freight, taxes. Security deposit/Performance Bank Guarantee @5% to 10% of the value of supply order, in terms of *Ministry of Finance, DoE, GOI, OM. No. F.9/42020-PPD dated 12-11-2020, extension of vide circular no. F.9/4/2020-PPD dated: 30<sup>th</sup> December 2021 and No. F.1/2/2023-PPD Dated: 03.04.2023* as per norms may be sought from the firms.
13. The right to reject all or any of the quotation and to split up the requirements for itemized L-1, if any or relax any or all the above conditions without assigning any reason is reserved by the IISER Mohali. For any corrigendum and addendum please be checked the website <https://eprocure.gov.in/eprocure/app> and <http://www.iisermohali.ac.in>
14. Disputes, if any, shall be subject to jurisdiction in the court of Mohali only.

-Sd-

सहायक कुलसचिव (क्रय तथा भंडार)  
Assistant Registrar (Stores & Purchase)

**ANNEXURE-I**

**Bid Securing Declaration Form**

Date: \_\_\_\_\_ E-Tender No. \_\_\_\_\_ E-Tender ID \_\_\_\_\_

To (insert complete name and address of the purchaser)

I/We. The undersigned, declare that:

I/We understand that, according to your conditions, bids must be supported by a Bid Securing Declaration.

I/We accept that I/We may be disqualified from bidding for any contract with you for a period of one year from the date of notification if I am /We are in a breach of any obligation under the bid conditions, because I/We

- a) have withdrawn/modified/amended, impairs or derogates from the tender, my/our Bid during the period of bid validity specified in the form of Bid; or
- b) having been notified of the acceptance of our Bid by the purchaser during the period of bid validity (i) fail or reuse to execute the contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the Instructions to Bidders. I/We understand this Bid Securing Declaration shall cease to be valid if I am/we are not the successful Bidder, upon the earlier of (i) the receipt of your notification of the name of the successful Bidder; or (ii) thirty days after the expiration of the validity of my/our Bid.

Signed: (insert signature of person whose name and capacity are shown)  
in the capacity of (insert legal capacity of person signing the Bid Securing Declaration)

Name: (insert complete name of person signing he Bid Securing Declaration)  
Duly authorized to sign the bid for an on behalf of (insert complete name of Bidder)

Dated on \_\_\_\_\_ day of \_\_\_\_\_ (insert date of signing)  
Corporate Seal (where appropriate)

(Note: In case of a Joint Venture, the Bid Securing Declaration must be in the name of all partners to the Joint Venture that submits the bid)

PS: *Furnish the above in original stationary/letter head with signed and sealed.*

## ANNEXURE-II

### Tender specifications for Protein purification system/Fast Protein Liquid Chromatography (FPLC) system with accessories

S. No.	Feature	Requirement
1	Basic design and features	An inert biocompatible system for all purification and development work from microgram to gram scale, with the ability to support all the following chromatography techniques: Affinity Chromatography, Ion-Exchange Chromatography, Size-Exclusion Chromatography and Hydrophobic Interaction Chromatography
2	Pumps	<ul style="list-style-type: none"><li>- Two pump systems with 4 pump heads of hydrophobic material which can be used with high salt concentration buffers (e.g., of up to 8 M urea and/or 6 M guanidinium hydrochloride) besides commonly used buffers.</li><li>- Should be capable of a flow rate of 0.001ml/min to 20 ml/min or better without the need for addition or removal of any tubing or re-plumbing and a pressure limit of at least 20 MPa.</li></ul>
3	Injection loop	<ul style="list-style-type: none"><li>- Loop of 500 µl, 5 ml and 10 ml should be provided along the system</li></ul>
4	Column valve	The system should have a column valve which should allow: <ul style="list-style-type: none"><li>- the system to run in column by-pass mode for efficient washing and cleaning of the system without removing the column.</li><li>- reverse flow for increased application flexibility and cleaning of the column.</li></ul>
5	Column	<ul style="list-style-type: none"><li>- A prepacked column with a bed volume of at least 120 ml of cross-linked agarose and dextran (bead size ~34 µm) matrix and hydrophilic nature to minimize nonspecific adsorption and maximize recovery with a broad range of fractionation (Fractionation range 3,000-70,000 Da).</li><li>- The resins should be stable to commonly used aqueous buffers, e.g., 8 M urea, 6 M guanidine hydrochloride, 2% SDS, 2 M NaCl, 20% ethanol, 30% propanol, 24% ethanol, 30% acetonitrile, 0.1 M hydrochloric acid, etc.</li></ul>
6	Mixer	<ul style="list-style-type: none"><li>- The system must have an in-line mixer equipped with a magnetic stirrer to ensure accurate mixing of buffers. A mixer volume should be less than 1.5 ml to avoid sample dilution.</li></ul>
7	Detector/Monitor/Recorder	The UV monitor should detect up to three wavelengths between 190 – 700 nm simultaneously without changing the lamp or light source with the following UV-Vis parameters. <ul style="list-style-type: none"><li>- Optical fiber-based light delivery with noise of less than 0.1 mAU with a resolution of at least 0.01 mAU and minimum UV linearity of ±2.0% across the UV range.</li><li>- Flash Lamp without any warming up period required.</li></ul>

		<p>Automatic switching off the lamp in standby mode should be there to ensure a long lamp lifetime.</p> <ul style="list-style-type: none"> <li>- The lamp life should be a minimum of 5000 hr.</li> <li>- The lamp should not cause any heat-up of the system detector to avoid sample degradation.</li> <li>- UV detector should have an absorbance range from -5.5 to +5.5 AU or better with an optical path length of at least 2 mm and should have a feature to normalize the data to 1 mm flow cell to compare the data with other FPLC systems.</li> </ul>
8	Outlet valve	The system should have the capability of an outlet valve having at least 3 outlet ports, one going to the Fraction collector, one to waste and one to collect in separate vials/vessels.
9	Fraction collector	The system should be supplied with a compatible fraction collector that minimizes spillage using a sensor and allows the use of 3, 8, 15 and 50 ml tubes. The fraction collector should be usable in time, volume, or peak recognition mode. Automatic peak recognition minimizes cross-contamination and unwanted eluent can be diverted to the waste.
10	Conductivity Monitor	<ul style="list-style-type: none"> <li>- The system must have a conductivity monitor of range 0.01 mS/cm to 900 mS/cm or better with an accuracy of at least <math>\pm 0.01</math> mS/cm with a built-in temperature sensor to correct variation due to temperature.</li> <li>- The conductivity monitor should be integrated with an automated temperature and flow compensation system.</li> </ul>
11	Software	<ul style="list-style-type: none"> <li>- Software should have an in-built library of columns from vendors as well as third-party vendors.</li> <li>- Software should be freely upgradeable along with the upgradation of system firmware to allow system operations through upgraded software.</li> <li>- The software should have the feature of remote operating and visualizing the runs.</li> <li>- The software should have an intuitive user interface, interactive process pictures, and simplified evaluation modules.</li> <li>- Watch functions in the software for peak fractionation and unattended operations to be included. The system and software are fully GLP/GMP compatible and 21 CFR part 11 compliant.</li> </ul>
12	Additional features	<ul style="list-style-type: none"> <li>- The system should have the option for monitoring pH flow through electrodes and there should be an option to bypass the pH monitor without re-plumbing.</li> <li>- A separate syringe port should be available to calibrate the pH electrode within the system.</li> </ul>
13	Standard accessories/consumables	The system should include all types of connectors, filters, ferrules, Teflon and peek tubing, sample loops, and all other accessories.
14	Cold cabinet	<ul style="list-style-type: none"> <li>- The cabinet should be of appropriate dimensions and capacity to accommodate the FPLC system along with</li> </ul>



		<p>accessories comfortably.</p> <ul style="list-style-type: none"> <li>- It should have two multi-pane glass doors on an aluminum frame with magnetic gaskets for proper sealing.</li> <li>- It should have an adjustable temperature range of 2-8 ±1°C</li> <li>- Should have a digital control system and audio/ visual display for temperatures outside the set ranges</li> <li>- Should have a positive airflow system for maintenance of temperature uniformity at all shelf levels</li> <li>- Switching on the light inside linked to the door-activated switch</li> <li>- Should be mounted on heavy-duty wheels for easy movement of the system</li> <li>- The shelves should be retractable for adjusting depending on the height of the shelf</li> <li>- The MOC should be SS-316 or SS-304</li> <li>- It should come with at least 3-4 electric plug points</li> <li>- It should have necessary safety features like a safety fuse for mains &amp; compressor, a safety thermostat to cut out the power supply to the compressor upon failure of the controller</li> </ul>
15	UPS	<b>Branded 2 KVA online UPS</b> (at least 30 min backup) should be provided
16	Desktop computer (optional)	<p><b>CPU:</b>  Windows 10 Professional/Enterprise 64-bit  Ram: 32 GB or more  Hard disk: 1TB or more (SSD for fast speed)  Processor: i5/ i7</p> <p><b>Monitor:</b>  Display: at least 27-inch Full HD (1920 x 1080) IPS Anti Glare Display, 300 nits Brightness, up to 75Hz Refresh Rate.</p> <ul style="list-style-type: none"> <li>• Should have an aspect ratio 16:9. Viewing Angle (H/V) 178°(H)/178°(V).</li> <li>• Should have an always-on blue light filter that keeps eyes comfortable with zero impact on color accuracy</li> <li>• Should have cable Management: Cord and wire pass-through located on display stand to reduce cord clutter and help keep the workspace clean and organized</li> <li>• Should have the following ports: 1 VGA; 2 HDMI 1.4 (with HDCP support)</li> <li>• Should be compatible with Windows 11; Windows 10; Windows 8; Windows 7</li> </ul> <p><b>Keyboard:</b></p> <ul style="list-style-type: none"> <li>• Should have plug-and-play easy setup USB</li> <li>• Should have shortcut combination keys with the Fn key</li> <li>• Dimensions (mm): at least 146.1 x 425.9 x 26.8</li> </ul> <p><b>Mouse:</b></p> <ul style="list-style-type: none"> <li>• Wired optical mouse compatible with Windows 11;</li> </ul>

		Windows 10; Windows 8; Windows 7
17	<b>Warranty</b>	<b>At least one year on all components from the date of installation</b> <b>Optional: Two years CMC</b>
18	Installation and training	<ul style="list-style-type: none"> <li>- The vendor must provide on-site application training after the installation.</li> <li>- The vendor must provide and enclose the complete prerequisites required for the successful installation of equipment.</li> </ul>
19	Future upgradation	<ul style="list-style-type: none"> <li>- The system should have the option to be integrated with third-party detectors like fluorescence detectors, RI and auto samplers simultaneously for increased application flexibility at the time of purchase or post-purchase.</li> <li>- Software should be freely upgradable within version along with the upgradation of system firmware to allow system operations through upgraded software.</li> </ul>
20	Miscellaneous points	<ul style="list-style-type: none"> <li>- The OEM or the authorized distributor should submit the technical bid.</li> <li>- All the above specifications must be carefully read and understood before claiming your instrument as “complied.”</li> <li>- Please provide a compliance statement sheet along with the product catalogue. If there is any deviation in the above-mentioned specifications, it should be clearly highlighted in the remarks. The quoted product must be visible on the OEM’s website.</li> <li>- The user list should be attached along with the literature.</li> <li>- The OEM should have offices or agents in India. A qualified and approved service application personnel must be available in Chandigarh/Delhi/Gurgaon (North) for prompt response.</li> </ul>

**ANNEXURE-III**

**(To be submitted on the letterhead of the company/firm)**

**CERTIFICATE BY THE BIDDER (FOR TENDERS)**

I have read the clause regarding restrictions on procurement from bidder of as country which shares a land border with India. I certify that this bidder is not form such a company or if from such a country, has been registered with the Competent Authority (copy of Registration Certificate enclosed). I hereby certify that the bidder fulfils all requirements in this regard and is eligible to be considered. This is in terms of Restriction under Rule 144 (xi) of the General Financial Rules (GFRs). 2017 under sub clause 3, in terms of DOE, MoF No. F.18/37/2020-PPD dated: 8<sup>th</sup> February, 2021.

Date:

Name of the company/firm/organization

Place:

Signature with Date and stamp of the bidder