



INDIAN INSTITUTE OF TECHNOLOGY MADRAS  
600 036  
DEPARTMENT OF CHEMISTRY  
[cystores@iitm.ac.in](mailto:cystores@iitm.ac.in)



**Prof. Sanjay Kumar**  
Head, Dept of Chemistry

Date: 05.03.2024

Tender No. IITM/CY/APPS-FPLC/01/2023-24

Dear Sir/Madam,

On behalf of the Indian Institute of Technology Madras, Tenders are invited in two bid system namely technical bid and financial bid for

**SUPPLY OF AUTOMATED PROTEIN PURIFICATION SYSTEM (FPLC) – 1 No.**

Conforming to the specifications enclosed.

Tender Documents may be downloaded from Central Public Procurement Portal <https://eprocure.gov.in/epublish/app> Aspiring Bidders who have not enrolled / registered in e-procurement should enroll/register before participating through the website <https://eprocure.gov.in/epublish/app>. The portal enrolment is free of cost. Bidders are advised to go through instructions provided at “Help for contractors”. [Special instructions to the bidders for the e-submission of the bids online through this e-Procurement Portal”].

Tenderers can access tender documents on the website (For searching in the NIC site, kindly go to Tender Search option and type ‘IIT’. Thereafter, Click on “GO” button to view all IIT Madras tenders). Select the appropriate tender and fill them with all relevant information.

1	LAST DATE & TIME for receipt of Tender	:	14.03.2024 @ 02:00 PM
	Date & Time of opening of Tender	:	15.03.2024 @ 03:00 PM
<b>TERMS AND CONDITIONS OF TENDER</b>			
2	<b>Marking on Technical Bid:</b> i. The pre-qualification criteria, technical specification of the item for this tender is given in <b>Annexure A</b> . The Bidders shall go through the pre-qualification criteria, technical specification, scope of the work and submit the technical bid in the proforma given in <b>Annexure B</b> in the tender document along with the supporting documents. ii. The Technical bid should be submitted <b>in manually at the Dept of Chemistry, IIT Madras</b> iii. The technical bid should have the page-wise <b>heading as “Technical Bid” and page no.</b> in all pages with seal and signature of authorized signatory. The total no. of pages should be mentioned at the last page of the documents. <b>iv. The technical bid should consist of</b> a) Document proof for EMD payment b) Technical Compliance sheet as per proforma given in <b>Annexure-B</b>		

	c) Document proof for pre-qualification criteria, technical details along with catalogue / brochure and other technical, commercial terms and conditions.
3	<p><b>Earnest Money Deposit (EMD):</b></p> <p>i. <b>EMD of INR 68,250 (Rupees sixty thousand two hundred and fifty only)</b> should be transferred through NEFT/RTGS to the following bank account on or before due date <b>14.03.2024 before 2.00p.m.</b></p> <p style="margin-left: 40px;"><b>Name : Registrar IIT Madras</b>  <b>Bank : State Bank of India</b>  <b>Account No. : 10620824305</b>  <b>Branch : IIT MADRAS</b>  <b>IFSC CODE : SBIN0001055</b></p> <p>ii. As per O.M. No.F.1/2/2022-PPD Dated 01.04.2022, the EMD will be returned to the unsuccessful Bidder(s), within 30 days after declaration of result of first stage i.e., technical evaluation etc. The EMD shall be forfeited if any Bidder withdraws the offer before finalization of the tender. The EMD amount should not be sent through Demand Draft.</p> <p>iii. Non-submission of EMD details on or before the due date and time will result in rejection of the e-bid.</p> <p>iv. As per Rule 170 of GFR 2017, exemption of EMD will be given subject to submission of document proof by the firm seeking such exemption. Copies of relevant orders/ documents regarding such exemption should be submitted along with the tender document.</p> <p>v. The successful bidder shall submit a Performance Guarantee of 3% of the purchase order value by way of DD/Bank Guarantee (Including e-Bank Guarantee)/FDR/ Insurance surety bonds in favour of "The Registrar, IIT Madras" to be obtained from any commercial bank, within 14 (Fourteen) days from the date of issue of order by IIT Madras, which would be released 60 days after the successful completion of the warranty period after the adjustment dues if any without interest.</p> <p>vi. In case of successful bidder, the EMD will be adjusted towards the Performance Security Deposit on request, subject to validity.</p> <p>vii. The amount of EMD is liable to be forfeited, if the bidder withdraws from the offer after submission of the tender or after the acceptance of the offer and fails to remit the Performance Security Deposit.</p>
4	<p><b>Preparation of Tender:</b></p> <ul style="list-style-type: none"> <li>• The bids should be submitted manually only in two bid system i.e., Technical Bid and Financial Bid separately.</li> <li>• The bidder has to submit the tender document duly signed on all pages by an authorized person and his / her full name and status shall be indicated below the signature along with official seal/stamp of the firm. Submission of wrong / forged information / document will be liable to legal action, and rejection of the bid submitted by the firm.</li> <li>• The bids of the agency/firm/company not in possession of valid statutory license / registrations are liable for rejection.</li> <li>• If any relative of the bidder is an employee of the IIT Madras, the name, designation and relationship of such employee shall be intimated to the Registrar, IIT Madras in writing while submitting the bid.</li> <li>• No bidder will be allowed to withdraw / alter / modify the bid during the bid validity period.</li> </ul>
5	<p><b>Signing of Tender:</b></p> <p>The bid is liable to be rejected if complete information is not given therein or if the particulars and date (if any) asked for in the schedule to the tender are not fully filled in or not duly signed/authenticated. Specific attention is drawn to the delivery dates and terms and conditions enclosed herewith. <b>Each page of the bids shall be duly signed with the official seal of the Bidders.</b></p> <p>If the bid is submitted by a firm in partnership, it shall be signed (with seal) by all the partners of the firm above their full typewritten names and current addresses. Alternatively, it shall be signed by a partner holding power of attorney for the firm in which case a certified copy of the power of attorney shall accompany the bid. A certified copy of the partnership deed along with current addresses of all the partners of the firm shall also accompany the bid.</p> <p>If a limited company or a corporation makes the application, it shall be signed by a duly authorized person holding power of attorney for signing the bid, in which case a certified copy of the power of attorney shall accompany the</p>

	bid. Such limited company or corporation may be required to furnish satisfactory evidence of its existence. The bidder shall also furnish a copy of the Memorandum of Articles of association duly attested by a Notary Public.
6	<b>Period for which the offer will remain open:</b> The bids shall remain valid for acceptance/validity till: <b>120 days from the date of opening of the tender.</b> However, the day up to which the offer is to remain open being declared closed holiday for the Indian Institute of Technology Madras, the offer shall remain open for acceptance till the next working day.
7	<b>Prices:</b> <ul style="list-style-type: none"> <li>The prices quoted must be Net considering all scope of supply, terms &amp; conditions mentioned in <b>Annexure A.</b></li> <li><b>The prices quoted by the Bidders should be inclusive of GST and other charges.</b></li> <li><b>All conditional tenders will be summarily rejected.</b></li> </ul>
8	<b>Warranty:</b> 3 Years warranty from the date of installations at no cost.
9	<b>No Advance Payment will be made for the supply.</b> The Payment will be made only after satisfactory completion of the supply and as per terms and conditions of the purchase order.
10	<b>Delivery:</b> The delivery period shall be 30 days from the date of purchase order.
11	<b>GST: As applicable</b>
12	<b>Terms and Conditions:</b> Failure to comply with any of the instructions stated in this document or offering unsatisfactory explanations for non-compliance will lead to rejection of offers.
13	<b>Right of Acceptance:</b> IIT Madras reserves the right to reject the whole or any part of the Tender without assigning any reason or to accept them in part or full.
14	<b>Communication of Acceptance:</b> Letter of Intimation and acceptance will be communicated by post /email to the successful bidder to the address indicated in the bid.
15	All information including selection and rejection of technical or financial bids of the prospective bidders will be communicated through GeM portal. In terms of Rule 173 (iv) of General Financial Rule 2017, the bidder shall be at liberty to question the bidding conditions, bidding process and/or rejection of bids.
16	<b>Bidder shall submit along with this Bid:</b> Name and full address of the Banker & their swift code, PAN No. and GSTIN number.
17	<b>Jurisdiction:</b> All questions, disputes, or differences arising under, out of or in connection with the contract, if concluded, shall be subject to the exclusive jurisdiction at the place from which the acceptance of tender is issued.
18	<b>Dispute Settlement:</b> <ul style="list-style-type: none"> <li>It is mutually agreed that all differences and disputes arising out of or in connection with this agreement shall be settled by mutual discussions and negotiations. If such disputes and differences cannot be settled and resolved by discussions and negotiations then the same shall be referred to the sole Arbitrator appointed by the Director, IIT Madras whose decision shall be final and binding on both the parties.</li> <li>It is also agreed that in case of any disagreements / disputes in connection with the Arbitrator's award, the same shall be settled under the Court of Law with its jurisdiction at Chennai. The resultant contract will be interpreted under Indian Laws.</li> </ul>
19	<b>Right of IIT Madras</b> <ul style="list-style-type: none"> <li>The Registrar, IIT Madras reserves right to withdraw / relax any of the terms and conditions mentioned above so as to overcome the problem encountered by the contracting parties.</li> <li>The Registrar, IIT Madras reserves the right to accept or reject any or all the tenders without assigning any reason whatsoever and his / her decision shall be final and binding on the tenderer.</li> <li>IIT Madras reserves the right to suitably increase / reduce the scope of supply put to this tender. In case of any ambiguity in the interpretation of any of the clauses in tender document or purchase order, interpretation of the clauses by the IIT Madras shall be final and binding on all parties.</li> </ul>
20	<b>Compensation / Force Majeure:</b>  If the selected bidder could not complete the supply to the satisfaction of the IITM within the stipulated period, the firm shall be bound to pay IITM a sum calculated as given below by way of compensation If the firm fails to complete the supply by the scheduled date of completion, it will have to pay compensation for non-performance at rate of 0.25 % of tendered value for each week or part thereof of delay subject to maximum of 5% of the contract value.  Compensation is not payable if the delay is attributable to the Institute and Force Majeure. However, it is the responsibility of the selected Bidder to prove that the delay is attributable to the Institute and Force Majeure. The

	selected Bidder shall submit the proof authenticated by the Bidder and Institute's official that the delay is attributed to the Institute and/or Force Majeure along with the bills requesting payment.
21	The bidder shall certify that the tender document submitted by him / her are of the same replica of the tender document as published by IIT Madras and no corrections, additions and alterations made to the same. If any deviation is found in the same at any stage and date, the bid / contract will be rejected / terminated and actions will be initiated as per the terms and conditions of the contract.
22	The bidder shall study the Technical Bid in detail as given in <b>Annexure A</b> before submitting the bid.
23	<p><b>PRE-QUALIFICATION CRITERIA:</b></p> <p><b>Eligibility Criteria-I</b></p> <ol style="list-style-type: none"> <li>1. The bidder shall not be from a country sharing land border with India and if the bidder is from a country sharing land border with India the bidder should have been registered with the competent authority as per orders of DIPP OM No. F. No. 6/18/2019-PPD dated 23<sup>rd</sup> July 2020, and MoCI Order No. P-45021/112/2020-PP (BE II) (E-43780) dated 24<sup>th</sup> August 2020. A declaration as per format given in <b>Annexure – D</b> shall be submitted with the bid.</li> <li>2. Only 'Class-I &amp; 'Class-II local suppliers' and 'Non-local Suppliers', as defined under DIPP, MoCI Order No. P45021/2/2017-PP (BE II) dated 16th September 2020 and other subsequent orders issued therein, shall be eligible to bid in this tender. Declaration for Class-I &amp; Class-II local suppliers and Non-local Suppliers should be submitted in the prescribed proforma as per <b>Annexure-E</b>.</li> </ol> <p><b>Eligibility Criteria-II</b></p> <ol style="list-style-type: none"> <li>1. The bidder should not have been blacklisted / debarred by any Government/ regulatory bodies in India. A self-declaration format given in <b>Annexure – F</b></li> <li>2. The bidder should have GST and PAN registration if applicable (Necessary document proof should be attached)</li> <li>3. The firm must have a cumulative financial turnover of at least Rs.20 Lakhs in the last three years i.e., 2020-21, 2021-22 &amp; 2022-23 and it should be duly certified by Chartered Accountant.</li> <li>4. The bidder should have experience in supply of AUTOMATED PROTEIN PURIFICATION SYSTEM (FPLC) to the reputed Institutions (like IIT, NIT and Central/State University/Central Research Labs)/ R&amp;D Units / Industries in India in the last three years (2021, 2022 and 2023) as detailed below: <ol style="list-style-type: none"> <li>i) Three (3) supplies of similar equipment *each costing not less than Rs.10 Lakhs (Or)</li> <li>ii) Two (2) supplies of similar equipment *each costing not less than Rs.15 Lakhs (Or)</li> <li>iii) One (1) supply of similar equipment *costing not less than Rs.20 Lakhs</li> </ol> </li> </ol> <p><b>Copies of the documents listed below should be submitted as a proof for the above supply:</b></p> <ol style="list-style-type: none"> <li>a. Purchase Order / Work order should be submitted and also the list of similar instruments supplied including contact details (name of the person-in-charge, email, and phone number) should be provided</li> <li>b. Work Completion Certificate/or User performance Certificate from End User</li> </ol>
24	<p><b>Number of Bids and their Submission:</b> The bidders should submit the bids in two bid system as detailed below:</p> <p><b>Bid I Technical Bid</b> The technical bid should consist of Pre-qualification Criteria (Eligibility Criteria - I &amp; II), technical specification compliance sheet (proforma given in Annexure-B) and floor plan along with all relevant documents proof.</p> <p>The bidder should go through the Pre-Qualification Criteria (Eligibility Criteria I &amp; II) and technical specification given in <b>Annexure-A</b> of the tender document, understand the requirement of IIT Madras and submit their technical bid along with all relevant document proof in the proforma given in <b>Annexure-B</b>.</p>

	<p><b>Bid II Financial Bid</b></p> <p>The financial bid should submit (BoQ) as per the proforma (<b>Annexure C</b>). The quoted price should be inclusive of all including transportation and installation at IIT Madras as per the direction of Head, Dept of Chemistry, IIT Madras.</p>
25	<p><b>Evaluation of Bids:</b> Bid Evaluation will take place in two stages.</p> <p><b>Stage I: Technical Bid evaluation</b></p> <ol style="list-style-type: none"> <li>1. Bidder will be evaluated first for conformity with Eligibility Criteria-I and II and those bidders who have complied with this criteria will alone be evaluated further.</li> <li>2. In the 2<sup>nd</sup> stage, the technical specification offered by the bidders will be evaluated by the technical committee for compliance. Only those bidders who have fully complied with Eligibility Criteria I, II and technical specification will be considered for financial bid evaluation.</li> </ol> <p><b>Stage II: Financial Bid Evaluation:</b></p> <ol style="list-style-type: none"> <li>I. The Lowest financial bid among those who have qualified in the Technical bid will be declared as successful bidder (L1) and the order will be awarded to successful bidder (L1). For arrival of Lowest bid (L1) value.</li> </ol>
26	<p><b>Selection of successful bidder and Award of Order</b></p> <p>The order will be directly awarded to the technically qualified bidder as per the condition in para 3A of DIPP, MoCI Order No. 45021/2/2017-PP (BE II) dated 16th September 2020 and other subsequent orders issued therein.</p>
27	<p><b>Inco terms 2010 should be clearly mentioned in the technical bid document.</b></p>
28	<p><b>For Technical Related Queries:</b> Prof. Muraleedharan K.M. Dept of Chemistry IIT Madras</p>
29	<p>The sealed quotations shall be submitted at the following address <b>on or before due date:</b> <b>The Head</b> <b>Dept of Chemistry</b> <b>IIT Madras, Chennai, India</b> <b>600036</b></p>
30	<p>In accordance to the Rule 173 of GFR, 2017 and relevant provisions thereof in Procurement Manuals, 2022, IITM reserves the right to carry out the negotiation process through its purchase/technical committee with L1/H1 (as applicable) vendor to ensure price reasonability before final recommendation to the Competent Authority. The negotiation details, if any, on case to case basis shall be recorded in minutes of meeting suitably for records.</p>

Sd/-  
Head  
Dept of Chemistry

## **ACKNOWLEDGEMENT**

It is hereby acknowledged that I/We have gone through all the points listed under “Specification, Guidelines, Terms and Conditions” and Special Terms & Conditions of tender document, the same is abided and agreed to be executed. In case, if the above information is found false, I/We are fully aware that the tender /order will be rejected / cancelled by IIT Madras.

**Signature of the bidder**  
**Name & Address of the bidder with Office Stamp**

**SCHEDULE OF TENDER**

**SUPPLY OF AUTOMATED PROTEIN PURIFICATION SYSTEM (FPLC)– 1 No.**

**Tender No. IITM/CY/APPS-FPLC 01/2023-24**

Name of Organization	Indian Institute of Technology Madras
Tender Type (Open/Limited/EOI/Auction/Single)	Limited
Tender Category (Services/Goods/Works)	Goods
Type/Form of Contract (Work/Supply/Auction/Service/ Buy/ Empanelment/ Sell)	Supply
Name of the Tender	<b>SUPPLY OF AUTOMATED PROTEIN PURIFICATION SYSTEM (FPLC)</b>
Source of Fund (Institute/Project)	IIT Madras
Is Multi Currency Allowed	NO
Date of Issue/Publishing	05.03.2024
Document Download Start Date	05.03.2024
Document Download End Date	14.03.2024 @ 02.00 p.m.
Last Date and Time for Uploading of Bids	14.03.2024 @ 02.00 p.m.
Date and Time of Tender Opening	15.03.2024 @ 03.00 p.m.
No. of Covers (1/2/3/4)	2
Bid Validity days (180/120/90/60/30)	120 Days
Address for Communication	<b>For Technical Related Queries:</b> Prof. Muraleedharan K.M. Dept of Chemistry IIT Madras Phone No. 044 2257 4233 Email: <a href="mailto:cystores@iitm.ac.in">cystores@iitm.ac.in</a>
	<b>For General Queries</b> Dept of Chemistry IIT Madras Chennai – 600 036 Phone No. 044 2257 5203 Email: <a href="mailto:cystores@iitm.ac.in">cystores@iitm.ac.in</a>

**TECHNICAL BID****SUPPLY OF AUTOMATED PROTEIN PURIFICATION SYSTEM (FPLC) – 1 No.****Tender No. IITM/CY/APPS-FPLC/01/2023-24****A. PRE-QUALIFICATION CRITERIA:****Eligibility Criteria-I**

1. The bidder shall not be from a country sharing land border with India and if the bidder is from a country sharing land border with India the bidder should have been registered with the competent authority as per orders of DIPP OM No. F. No. 6/18/2019-PPD dated 23<sup>rd</sup> July 2020, and MoCI Order No. P-45021/112/2020-PP (BE II) (E-43780) dated 24<sup>th</sup> August 2020. A declaration as per format given in **Annexure – D** shall be submitted with the bid.
2. Only 'Class-I & 'Class-II local suppliers' and 'Non-local suppliers', as defined under DIPP, MoCI Order No. P45021/2/2017-PP (BE II) dated 16th September 2020 and other subsequent orders issued therein, shall be eligible to bid in this tender. Declaration for Class-I & Class-II local suppliers and Non-local Suppliers should be submitted in the prescribed proforma as per **Annexure-E**.

**Eligibility Criteria-II**

1. The bidder should not have been blacklisted / debarred by any Government/ regulatory bodies in India. A self-declaration format given in **Annexure – F**
2. The bidder should have GST and PAN registration (Necessary document proof should be attached).
3. The firm must have a cumulative financial turnover of at least Rs.20 Lakhs in the last three years i.e., 2020-21, 2021-22 & 2022-23 and it should be duly certified by Chartered Accountant.
4. The bidder should have experience in supply of similar AUTOMATED PROTEIN PURIFICATION SYSTEM (FPLC) to the reputed Institutions (like IIT,NIT and Central/State University/Central Research Labs)/ R&D Units / Industries in India in the last three years (2021, 2022 and 2023) as detailed below:
  - i) Three (3) supplies each costing not less than Rs.10 Lakhs  
(Or)
  - ii) Two (2) supplies each costing not less than Rs.15 Lakhs  
(Or)
  - iii) One (1) supply costing not less than Rs.20 Lakhs

**Copies of the documents listed below should be submitted as a proof for the above supply:**

- a. Work Order/purchase order should be submitted and also the list of similar instruments supplied including contact details (name of the person-in-charge, email, and phone number) should be provided.
- b. Work Completion Certificate/or User performance Certificate from End User.



## B. Technical Specifications:

Sl. No.	Technical Specifications:
	<b>AUTOMATED PROTEIN PURIFICATION SYSTEM</b>
1	Automated Stand-alone system for Protein purification work and should be suitable for affinity, Ion exchange and gel filtration chromatography.
2	System should operate at pressure of $\leq 0.5$ MPa (5 Bar).
3	System must be capable of delivering flow rate of 0.5 to 5 mL/min with gradient and with Flow rate Accuracy and precision : $\pm 10\%$
4	System should have accurate on-line UV monitor with single wavelength detection at 280nm with auto zeroing function and must be capable of both isocratic and gradient elution with a built-in Gradient Mixer.
5	System should have Temperature monitor of 4°C to 35°C with an accuracy of $\pm 10\%$ and Conductivity monitor of 0 to 300 mS/cm with an accuracy $\pm 5\%$ .
6	Mixer volume of the system should be less than 0.5mL.
7	System should have a Flow cell of 2 mm optical path length and cell volume $\leq 5 \mu\text{l}$ .
8	System should have a sample valve and injection valve for loading large sample using the pump and an injection valve.
9	Provision for Flow diversion valve should be provided for selecting buffers & purging system.
10	System must be equipped with a low-temperature (4°C) compatible fraction collector along with a bypass/Flow diversion valve. Automated fraction collection with flexibility of volume (0.5 to 15 ml) and collection tubes (1.5, 2, 5 and 15 ml)
11	Should include all connectors and attachments for connecting the system.
12	The system should be automated and controlled by a software. The software should have running methods for commercially available columns
13	User programmable column library for application protocols and method templates should be provided.
14	Preferably small footprint with not more than 35x40x30 (WxHxD in cm)
15	Pre-packed Size exclusion chromatography columns for high-resolution protein purification and analysis in MW range $M_w \sim 5\text{K}$ to $\sim 5\text{M}$ Da with size 10 x 300 mm or longer
16	Pre-packed Size exclusion chromatography column for separating peptides and proteins in the MW range of 1K to 100 kDa with size 16 x 600 mm or longer
17	Pre-packed strong anion exchanger with quarternary ammonium anion exchange resin or similar with bed volume $\geq 20$ ml
18	Pre-packed strong cation exchanger with Sulfopropyl cation exchange resin or similar with bed volume $\geq 20$ ml

19	Ni Sepharose High-Performance nickel-charged IMAC resin is for high-resolution his-tagged protein purification with high binding capacity.- 100ml
20	Cold cabinet: Refrigerator (+4C to Room temp) with a 5A and 15A electric socket and lights

**PROFORMA FOR TECHNICAL BID**  
**SUPPLY OF AUTOMATED PROTEIN PURIFICATION SYSTEM (FPLC) – 1 No.**  
**Tender No. IITM/CY/APPS-FPLC/01/2023-24**

**A. PRE-QUALIFICATION CRITERIA**

Sl. No.	Description	Compliance (Yes/No)	Page Ref.No.
<b>PRE-QUALIFICATION CRITERIA</b>			
<b>I. ELIGIBILITY CRITERIA - I</b>			
1	The bidder shall not be from a country sharing Land border with India and if the bidder is from a country sharing land border with India the bidder should have been registered with the competent authority as per orders of DIPP OM No. F. No. 6/18/2019-PPD dated 23 <sup>rd</sup> July 2020, and MoCI Order No. P-45021/112/2020-PP (BE II) (E-43780) dated 24 <sup>th</sup> August 2020. A declaration as per format given in <b>Annexure – D</b> shall be submitted with the bid.		
2	Only 'Class-I & 'Class-II local suppliers' and 'Non-local suppliers', as defined under DIPP, MoCI Order No. P45021/2/2017-PP (BE II) dated 16th September 2020 and other subsequent orders issued therein, shall be eligible to bid in this tender. Declaration for Class-I & Class-II local suppliers and Non-local Suppliers should be submitted in the prescribed proforma as per <b>Annexure-E</b> .		
<b>II. ELIGIBILITY CRITERIA - II</b>			
1	The bidder should not have been blacklisted / debarred by any Government/ regulatory bodies in India. A self-declaration format given in <b>Annexure – F</b>		
2	The bidder should have GST and PAN registration (Necessary document proof should be attached)		
3	The firm must have a cumulative financial turnover of at least Rs.20 Lakhs in the last three years i.e., 2020-21, 2021-22 & 2022-23 and it should be duly certified by Chartered Accountant.		
4	<p>The bidder should have experience in supply of similar Automated Protein Purification System to the reputed Institutions (like IIT,NIT and Central/State University/Central Research Labs)/ R&amp;D Units / Industries in India in the last three years (2021, 2022 and 2023) as detailed below:</p> <ul style="list-style-type: none"> <li>i) Three (3) supplies each costing not less than Rs.10 Lakhs (Or)</li> <li>ii) Two (2) supplies each costing not less than Rs.15 Lakhs (Or)</li> <li>iii) One (1) supply costing not less than Rs.20 Lakhs</li> </ul> <p><b>Copies of the documents listed below should be submitted as a proof for the above supply:</b></p> <ul style="list-style-type: none"> <li>a. Work Order/purchase order should be submitted and also the list of similar instruments supplied including contact details (name of the person-in-charge, email, and phone number) should be provided</li> <li>b. Work Completion Certificate/or User performance Certificate from End User.</li> </ul>		

## B. TECHNICAL SPECIFICATION

### TECHNICAL SPECIFICATION:

Sl. No.	Technical Specifications	Compliance (Yes/No)	Page Ref.No.
	<b>SUPPLY OF AUTOMATED PROTEIN PURIFICATION SYSTEM</b>		
1	Automated Stand-alone system for Protein purification work and should be suitable for affinity, Ion exchange and gel filtration chromatography.		
2	System should operate at pressure of $\leq 0.5$ MPa (5 Bar).		
3	System must be capable of delivering flow rate of 0.5 to 5 mL/min with gradient and with Flow rate Accuracy and precision : $\pm 10\%$		
4	System should have accurate on-line UV monitor with single wavelength detection at 280nm with auto zeroing function and must be capable of both isocratic and gradient elution with a built-in Gradient Mixer.		
5	System should have Temperature monitor of 4°C to 35°C with an accuracy of $\pm 10\%$ and Conductivity monitor of 0 to 300 mS/cm with an accuracy $\pm 5\%$ .		
6	Mixer volume of the system should be less than 0.5mL.		
7	System should have a Flow cell of 2 mm optical path length and cell volume $\leq 5 \mu\text{l}$ .		
8	System should have a sample valve and injection valve for loading large sample using the pump and an injection valve.		
9	Provision for Flow diversion valve should be provided for selecting buffers & purging system.		
10	System must be equipped with a low-temperature (4°C) compatible fraction collector along with a bypass/Flow diversion valve. Automated fraction collection with flexibility of volume (0.5 to 15 ml) and collection tubes (1.5, 2, 5 and 15 ml)		
11	Should include all connectors and attachments for connecting the system.		
12	The system should be automated and controlled by a software. The software should have running methods for commercially available columns		
13	User programmable column library for application protocols and method templates should be provided.		
14	Preferably small footprint with not more than 35x40x30 (WxHxD in cm)		
15	Pre-packed Size exclusion chromatography columns for high-resolution protein purification and analysis in MW range $M_r \sim 5\text{K}$ to $\sim 5\text{M}$ Da with size 10 x 300 mm or longer		
16	Pre-packed Size exclusion chromatography column for separating peptides and proteins in the MW range of 1K to 100 kDa with size 16 x 600 mm or longer		
17	Pre-packed strong anion exchanger with quarternary ammonium anion exchange resin or similar with bed volume $\geq 20$ ml		
18	Pre-packed strong cation exchanger with Sulfopropyl cation exchange resin or similar with bed volume $\geq 20$ ml		
19	Ni-Sepharose High-Performance nickel-charged IMAC resin is for high-resolution his-tagged protein purification with high binding capacity.- 100ml		

20	Cold cabinet: Refrigerator (+4C to Room temp) with a 5A and 15A electric socket and lights		
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**Place:**

**Date:**

**Signature of the bidder  
Name & Address of the  
bidder with Office Stamp**

**PROFORMA FOR FINANCIAL BID (BOQ)**  
**SUPPLY OF AUTOMATED PROTEIN PURIFICATION SYSTEM (FPLC) – 1 No.**  
**Tender No. IITM/CY/APPS-FPLC/ 01/2023-24**

Sl.No.	Detailed Description as per Annexure-B	Unit	Qty	Rate Per Unit INR	Total Cost (without GST)	GST (in %)	Total value incl. of GST
					(A)	(B)	
1.	AUTOMATED PROTEIN PURIFICATION SYSTEM (FPLC)	Nos	1				
<b>Total Cost inclusive of all*</b>							

**NOTE:**

- The prices quoted by the bidders should be inclusive of Training, Installation, Transportation, GST and other charges.

Place:  
Date:

Signature of the bidder  
Name & Address of the  
Bidder with Office Stamp

(To be given on the letter head of the bidder)

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Tender No. IITM/CY/APPS-FPLC/ 01/2023-24

Dated: \_\_\_\_\_

**CERTIFICATE**

*(Bidders from India)*

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and hereby certify that I am not from such a country.

**OR (*whichever is applicable*)**

*(Bidders from Country which shares a land border with India)*

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and hereby certify that I from \_\_\_\_\_ (Name of Country) and has been registered with the Competent Authority. I also certify that I fulfil all the requirements in this regard and is eligible to be considered. (Copy/ evidence of valid registration by the Competent Authority is to be attached)

**Place:**

**Date:**

**Signature of the Tenderer  
Name & Address of the  
Tenderer with Office Stamp**

**FORMAT FOR AFFIDAVIT OF SELF-CERTIFICATION UNDER PUBLIC PROCUREMENT POLICY****(PREFERENCE TO MAKE IN INDIA) 2017****Tender No. IITM/CY/APPS-FPLC/ 01/2023-24**

Date: \_\_\_\_\_

I/We \_\_\_\_\_ S/o, D/o, W/o, \_\_\_\_\_ Resident  
of \_\_\_\_\_ Hereby solemnly affirm and declare as under:

That I will agree to abide by the terms and conditions of the Public Procurement (Preference to Make in India) Policy vide Gol Order no. P-45021/2/2017-PP (B.E.-II) dated 15.06.2017 (subsequently revised vide orders dated 28.05.2018, 29.05.2019 and 04.06.2020) MOCI order No. 45021/2/2017-PP (BE II) Dt.16th September 2020 & P- 45021/102/2019-BE-II-Part(1) (E-50310) Dt.4th March 2021 and any subsequent modifications/Amendments, if any and

That the local content for all inputs which constitute the said item/service/work has been verified by me and I am responsible for the correctness of the claims made therein.

<b>Tick ( ✓ ) and Fill the Appropriate Category</b>	
<input type="checkbox"/>	I/We _____ [name of the supplier] hereby confirm in respect of quoted items that Local Content is equal to or more than 50% and come under <b>“Class-I Local Supplier”</b> category.
<input type="checkbox"/>	I/We _____ [name of the supplier] hereby confirm in respect of quoted items that Local Content is equal to or more than 20% but less than 50% and come under <b>“Class-II Local Supplier”</b> category.
<input type="checkbox"/>	I/We _____ [name of the manufacturer] hereby confirm in respect of quoted items that Local Content is less than 20% come under <b>‘Non – Local Supplier’</b> category

The details of the location (s) at which the local value addition is made and the proportionate value of local content in percentage

Percentage of Local content: ..%\*\* .

Place of the local content value calculated: \_\_\_\_\_

For and on behalf of ..... (Name of firm/entity)

Authorized signatory (To be duly authorized by the Board of Directors)

<Insert Name, Designation and Contact No.>

[Note: In case of procurement for a value in excess of Rs. 10 Crores, the bidders shall provide this certificate from statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.

**This letter should be on the letterhead of the quoting firm and should be signed by competent authority.**

\*\* Services such as transportation, insurance, installation, commissioning, and training and after sales service support like AMC/CMC cannot be claimed as local value addition



(To be given on the letter head of the bidder)

**Self-Declaration that the Service Provider has not been Black listed**

**Tender No. IITM/CY/APPS-FPLC/ 01/2023-24**

**Name of the item / Service: SUPPLY OF AUTOMATED PROTEIN PURIFICATION SYSTEM (FPLC)– 1 No.**

I..... S/o .....

R/o ..... police station ..... District ..... Director

/ partner/ sole proprietor (Strike out whichever is not applicable) of .....

..... (Firm or Company) do hereby declare and solemnly affirm:

- I. That the Firm ..... has not been Blacklisted or declared insolvent by any of the Union or State Government / Organization.
- II. That none of the individual / firm / Company Blacklisted or any partners or shareholder thereof has any connection directly or indirectly with or has any subsistence interest in the deponent business / firm company.
- III. That neither the Firm nor any of its partner has been involved / convicted in any criminal case / economic offence nor any criminal case / economic offence is pending against firm or any partner of the Firm before any Court of Law / Police.

**Place:**

**Date:**

**Signature of the Tenderer**

**Name & Address of the**

**Tenderer with Office Stamp**