INDIAN INSTITUTE OF TECHNOLOGY, KANPUR

GT ROAD, KALYANPUR, KANPUR – 208016

UTTAR PRADESH, INDIA

TENDER REFERENCE NO.: IITK/BSBE/AP/2021-2022/NC-22

BID SUBMISSION END DATE- 24.01.2022

TENDER DOCUMENTS

For

“Purchase of Protein Purification System”

BID DOCUMENT

The Indian Institute of Technology Kanpur ("the IITK") invites Bids ("Bids") from eligible, qualified and capable companies for the supply and delivery of "the Goods" and provision of associated services ("Associated Services") according to the requirements as defined in the Tender document.

Name of Work	Purchase Protein Purification System
Date of Publishing	27.12.2021 (15.00 hrs)
Clarification Start Date and Time	27.12.2021 (15.00 hrs)
Clarification End Date and Time	24.01.2022 (15.00 hrs)
Queries (if any)	No queries will be entertained after clarification end date and time
Bid Submission Start Date	27.12.2021 (15.00 hrs)
Last Date and time of uploading of Bids	24.01.2022 (15.00 hrs)
Last Date and time of **submitting**, EMD and other documents at IIT Kanpur (if any)	NA
Date and time of opening of Bids	25.01.2022 (15:00 hrs)

Interested parties may view and download the tender document containing the detailed terms & conditions from the website http://eprocure.gov.in/epublish/app

Tender document

Department of Biological Sciences & Bioengineering
Indian Institute of Technology Kanpur
Kanpur (UP) 208016 India

Enquiry date: **December 27th, 2021**

Enquiry No: **IITK/BSBE/AP/2021-22/NC-22**

Sealed quotations are invited for **Protein Purification System.** The detailed specification is described below.

Specifications of the Protein Purification System:

- Completely Bio-compatible inert, fully automated modular system to maintain protein integrity and labile post translational modifications
- System capable of running at flow rates ranging from 0.001 – 25 ml/min, Max flow rate, isocratic (wash / column packing) is 50ml/min
- System should operate in a pressure range from 0 – 20 MPa with an accuracy of +/- 1.2 %
- The UV-monitor should be capable of detecting a wavelength of 280nm using LED technology
- System UV detector should have an absorbance range at least -6 to +6 AU crucial for sharp peaks. Useful when samples which give reading in the negative spectra of the absorbance
- Sensitivity is 4 decimal unit and with an optical path length of 2 mm and the option of 5mm
- System should have the capability to run in bypass mode with up and down flow by bypassing the column
- The System pump should have Sapphire coating to tolerate up to 8M Urea and 6M Guanidine Hydrochloride.
- The system is pre-assembled with predefined tubings
- System should be supplied with a conductive monitor for conductivity measurement between 0.01ms/cm up to 999.9 ms/cm. System should be supplied with automated temperature compensation and flow restrictor
- System should be able to monitor pH from 0 to 14 pH and should be able to calibrate pH electrode within the system, delay volumes for fractionation calculated automatically
- System should have the option of attaching external detectors through I/o box and capable of doing software controlled multistep purification

- The system should be supplies with an outlet valve of minimum 3 ports
- System should be software controlled, software to be intuitive, interactive process pictures and simplified evaluation. Full control during manual and programmed runs
- Software control with Method Queues resulting in attending operations
- System should be provided with licensed standalone evaluation software for decongestion of work on the main system
- The system should have minimum 1 year of warranty

Fraction Collector:

- System should be supplied with an outlet valve to divert the flow to fraction collector, waste or an outlet position
- The system should be supplied with a fraction collector which allows the use of 2, 3,8,15 and 50 ml tubes
- It should have a drop sync sensor to minimize spillage
- Fraction collector should have an option of to be used in time , volume or peak recognition mode

Software:

- System should be software controlled, during manual and programmed runs with real time monitoring of the run

The software should:

- Have some predesigned method templates and allow manual designing for customized methods
- Allow running queuing for unattended operations (for example, when a method needs to be executed after the existing run gets over)
- Enable the evaluation of the data and generate reports based on evaluation
- Have the feature of setting ALARMS for low/high limit of various parameters e.g. pH, conductivity, pressure, etc. The alarm should pause/stop the run to protect the column & system.
- Scheduling of the backup (user results file) should be automated
- Include WATCH function (in addition to the alarms) in the control software to ensure that various parameters like pH, conductivity, pressure, etc. are in acceptable range upon execution of an action by the operator
- Software should be fully GAMP and 21 CFR part 11 compliant
- Should be upgradable without any cost
- should be multiple user and can be used in multiple system

Quotations must be addressed to:

Dr. Appu Kumar Singh
Lab18
Department of Biological Sciences & Bioengineering
Indian Institute of Technology Kanpur
Kanpur 208 016, India
Email: Singhappu@iitk.ac.in, nkhullar@iitk.ac.in

Terms and Conditions:

1. All equipment must be compatible with Indian electrical standards and codes. Engineering documentation on the physical sizes and weights of all major and minor components must be submitted.
2. IIT Kanpur is fully exempted from payment of GST on Imported Goods against our DSIR certificate.
3. IIT Kanpur is partially exempted from payment of Customs Duty (We will provide Custom Duty Exemption Certificate, CD applicable is 5.5%).
4. TENDER Specific Manufacturer Authorization Form from OEM Required.
5. The Institute reserves the right of accepting or rejecting any/all quotations without assigning any reason thereof.
6. All prices should be **F.O.R.**
7. Installation by OEM is preferred.

Appendix -1

TENDER ACCEPTANCE LETTER
(To be given on Company Letter Head)

Date: _____

To,

_____
_____
_____

Sub: Acceptance of Terms & Conditions of Tender.

Tender Reference No: _____

Name of Tender / Work: -

_____

Dear Sir,

1. I/ We have downloaded / obtained the tender document(s) for the above mentioned 'Tender/Work' from the web site(s) namely:
_____as per your advertisement, given in the above mentioned website(s).

2. I / We hereby certify that I / we have read the entire terms and conditions of the tender documents from Page No. _____ to _____ (including all documents like annexure(s), schedule(s), etc .,), which form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.

3. The corrigendum(s) issued from time to time by your department/ organisation too have also been taken into consideration, while submitting this acceptance letter.

4. I / We hereby unconditionally accept the tender conditions of above mentioned tender document(s) / corrigendum(s) in its totality / entirety.

5. I / We do hereby declare that our Firm has not been blacklisted/ debarred/ terminated/ banned by any Govt. Department/Public sector undertaking.

6. I / We certify that all information furnished by our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department/ organisation shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit absolutely.

Yours Faithfully,
(Signature of the Bidder, with Official Seal)

Appendix - 2

Declaration for Local Content

(To be given on Company Letter Head - For tender value below Rs.10 Crores)
(To be given by Statutory Auditor/Cost Auditor/Cost Accountant/CA for tender value above Rs.10 Crores)

Date:
_____

To,
The Director,
Indian Institute of Technology Kanpur,
GT Road, Kalyanpur, Kanpur -208016

Sub: Declaration of Local content

Tender Reference No: _____

Name of Tender / Work: -
_____

1. Country of Origin of Goods being offered: _____
2. We hereby declare that items offered has ____% local content.

"Local Content" means the amount of value added in India which shall, be the total value of the item being offered minus the value of the imported content in the item (including all customs duties) as a proportion of the total value, in percent.

*"*False declaration will be in breach of Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law."*

Yours Faithfully,
(Signature of the Bidder, with Official Seal)