



TENDER FOR Medium-Pressure Liquid Chromatography Systems

Global Tender Notification for procurement of “Medium-Pressure Liquid Chromatography Systems” at the Indian Institute of Science, Bangalore

GTE APPROVAL NO: IISc-GTE-2021-142

Date: 04-February-2022

A Request for quote for the supply of a “Medium-Pressure Liquid Chromatography Systems” at the Department of Microbiology & Cell Biology (MCB), Indian Institute of Science, Bangalore. The proposals should be submitted by 5 pm on **19-February-2022**.

Quotes should be submitted by authorized distributors only.

Terms and Conditions:

1. The quotations should be submitted in 2 bids. ie., Technical bid and Commercial bid
 - a) Technical Bid (Part-A) – Technical bid consisting of all technical details (as detailed below) along with commercial terms and conditions masking only the price component. Bill of materials, brochures, technical datasheets and any other document may be enclosed to help the evaluation of the technical bid. Please also include warranty terms and any other information on upgradation terms in the technical bid.
 - b) The commercial bid must include the price of the instrument indicating break up of :
 - I. For goods:
 - i. Installation, commissioning and training charges, including incidental expenses if any.
 - ii. Agency commission charges, if any.
 - iii. Provide certificates for the country origin of manufacturing for each line item.
 - II. Price of every line item in the commercial bid should be quoted along with the total quoted price for the instrument to be operational (fixed and ready to use) in our facility.
 - c) Both the Technical and Commercial bid should be put in separate sealed envelopes and put together in another cover stating, “Medium-Pressure Liquid Chromatography Systems”
2. All the components listed for the equipment must come from a single vendor and functional integration of all parts is necessary. The vendor should have a good track record of having

previously supplied a Medium-Pressure Liquid Chromatography Systems in India or abroad (please furnish details).

3. The vendor should have qualified technical service personnel based in Bangalore capable of servicing the equipment.
4. The quotations should be on Freight on Road (FOR)-IISc Bangalore basis in INR only.
5. The lead time for the delivery of the equipment should not be more than two months from the date of receipt of purchase order.
6. The validity period of the quotation should be 90 days.
7. If the goods are found to be defective, they must be replaced or rectified at the cost of the supplier within 30 days from the date of receipt of written communication from us. If there is any delay in replacement or rectification, the warranty period should be correspondingly extended.
8. The purchaser reserves the right to accept or reject any bid and to annul the bidding process and reject all bids at any time to award of construct without thereby incurring any liability of the affected bidder or bidders.

Technical specifications for Medium-Pressure Liquid Chromatography Systems :

1. The system should be state-of-the-art Fast Phase Liquid Chromatography (FPLC) system with ability to support all the following chromatography techniques: Affinity Chromatography, Ion-Exchange chromatography, Size-Exclusion Chromatography & Hydrophobic Interaction Chromatography
2. The system should have an operating flow rate between 0.001 ml/min to 10 ml/min.
3. The system should have an operating pressure reading range between 0 to 25MPa or above.
4. The system should have dual pumps of PEEK make type: The Piston pump can metering type and Reciprocating piston type.
5. The system should have a gradient mixer and be capable of creating a gradient between 0-100%.
6. The system should have at least two inlets for buffers and an inject valve for sample injection.
7. The system should be upgradeable to include column switching valve with software-controlled column bypass/forward flow/reverse flow operations as well as connection of up to 5 columns.
8. The system should have the option of adding a pH valve with flow restrictor and the pH valve can be by-passed using the software.
9. The system should have the option of connecting a pH probe for post column position with an accuracy of ± 0.1 pH with a pH monitoring range between 0-14.
10. The system should have an optional capability of connecting a buffer blending valve that allows online buffer preparation to scout pH and salt gradient.

11. The system should have a temperature integrated conductivity meter, post column position with range of 0.01-999 mS/cm and accuracy of $\pm 2.0\%$.
12. The system should come with 2 excitation filters- 255 nm and 280 nm with the following UV-Vis parameters: a UV range of at least 0 to >2.8 AU with noise of less than 0.1 mA and minimum UV linearity of $\pm 5.0\%$ and a 5 mm flow cell. If a 2mm flow cell is provided a 5 mm flow cell should be quote optional, the lamp should have a switch off facility to save on the lamp usage hours.
13. The software should be able to incorporate variable delay volume based on the position and length of the column and tubings.
14. System should be provided with versatile XY fraction collector which is compatible with various collection racks.
15. The system should be supplied with all accessories like tubings, connectors, ferrules for smooth running of the system.
16. The system should come with in-built pressure sensor to regulate flow rate and system should be compatible for running in cold cabinet/ cold chamber.
17. The system should have an inbuilt touch screen for basic control as well as should feature connectivity of an external computer system for software controls.
18. The system software should be capable of upgradation to US FDA 21CFR Part11 complaint version.
19. System software should have data backup features for backup and restore of data files.
20. The system software should have an inbuilt feature to queue up various purification methods for attended purification, real time control and modification of pre-designed methods during the run to enable method optimization as well the option to turn off lamp to save lamp capacity.
21. Software should be freely upgradeable along with upgradation of system firmware to allow operations of system through upgraded software.
22. Software should have in-built library of columns from vendor as well as third party vendors.
23. Software should be capable of analyzing data files generated from the same software as well as equivalent external software to allow users to study cross platform data files.

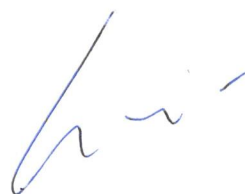
The above-mentioned technical specifications are highly desirable. However, the Institute reserves the right to go for lower specifications taking into considerations its financial constraints and technical preferences.

Bids may be submitted, latest by 5 pm on 19-February-2022 to:

The Chairman

Department of Microbiology & Cell Biology
Indian Institute of Science
Bangalore 560012,
India.

With attention to: **Prof. V. Nagaraja**



Chairman
Dept. of Microbiology & Cell Biology
Indian Institute of Science
Bangalore - 560 012