Local Tender Notification from Indian Original Equipment Manufacturer (OEM) or their Indian authorized distributor for procuring ''Lab Scale Fast Protein Liquid Chromatography (FPLC) System'' at the Molecular Biophysics Unit/NMR Research Centre, Indian Institute of Science, Bangalore

Dear Sir/Madam,

April 9, 2021

Sub: Lab Scale Fast Protein Liquid Chromatography (FPLC) System

This is a local tender notification from Indian Original Equipment Manufacturer (OEM) or their Indian authorized distributor meant for the purchase of a "Lab Scale Fast Protein Liquid Chromatography (FPLC) System" towards the purpose of purifying protein samples using ionexchange, affinity, size-exclusion or similar chromatographic methods. Your quotation should clearly indicate the terms and conditions of the quotation, delivery schedule, entry tax, payment terms, warranty coverage etc. The quotation should be submitted in two parts: Part I (Technical bid) and Part II (Commercial bid) and both should be submitted in separate sealed envelopes. The vendor should demonstrate the manufacture of the product within India. The Technical bid should be exactly the same as the Commercial bid except that prices must not be shown in the Technical bid. The Technical bid should have an item-wise compliance report of all specifications indicated below. Prices quoted should be inclusive of all taxes and duties and should be inclusive of delivery of the items to the site and installation. Prices must be in INR and should include the appropriate GST. The last day for submitting the bid is April 26, 2021. The offer should be valid for a period of at least 60 days from the last date of submission of quotes.

The bid should address the following technical specifications for the FPLC system, accessories and controlling software:

1. The system should have an operating flow rate between 0.01 ml/min to 20 ml/min.

2. The system should have an operating pressure reading range between 0 to 5Mpa, with an accuracy of \pm 2%.

3. The system should have one pump of type: Piston pump, metering type having Titanium/bio inert pump head.

4. The system should be capable of creating a gradient between 0-100%.

5. The system should have a Inlets with minimum 3 ports for buffer and 1 port for sample & Outlets with minimum 3 ports.

6. The system should have a unique in-built air trap design to degas buffers on-line.

7. The system should have the option of software-controlled column bypass/upflow/downflow connection, minimum 3 ports.

8. The system should have the option of adding a pH Valve with integrated flow restrictor which can be by-passed by the software.

9. The system should have the option of connecting a pH probe for post column position with accuracy of \pm 0.1 pH, pH valve with integrated pressure sensor.

10. The system should have a temperature integrated conductivity meter, post column position with range of 0.01-999.99 mS/cm and accuracy of $\pm 2.0\%$.

11. The system should have the capability to detect at 280 nm with a UV range of at least: -6 to +6 AU with noise of less than 0.1 mA and minimum UV Linearity of $\pm 5.0\%$

12. The delay volume of the system should be less than 250 uL.

13. The system to have the option of adding an I/O Box for connecting any external equipment to the system such as an autosampler or detectors for measurement of refractive index, light scattering, and fluorescence.

14. The system should be provided with a fraction collector capable of supporting tubes of different sizes like 3mL, 8mL, 15mL and 50mL and should be able to collect 150-200 fractions per fraction collector.

15. The system should be supplied with all accessories like tubing, connectors, ferrules for smooth running of the system.

16. The system should have inbuilt feature to decrease the flow rate automatically when a run is performed in the cold room or at low temperature.

17. The system software should be technically compatible with all relevant sections of FDA 21CFRPart11 and developed as per GAMP 5 guidelines.

18. The system software has mirror backup feature to back up the data automatically which can be used at the time of system failure.

19. The system software should also have a feature of system audit trail, electronic signatures, and electronic records.

20. The system software should have an inbuilt feature to queue up various purification methods for attended purification.

21. The system software must have provision of an in-built data recovery.

For the FPLC system and software, the participating firms must quote all-inclusive delivery prices and the entire shipment must be insured from the manufacturer's warehouse to the installation site at IISc.

Important: Please note that the FPLC system should match all technical specifications listed above and shown to be manufactured within the country.

The documents may be addressed to the Chairman, Molecular Biophysics Unit (Kind attention: Dr Ashok Sekhar), Indian Institute of Science, Bangalore 560 012. Last date for receiving queries is April 19, 2021. Please email ashoksekhar@iisc.ac.in. The last date for submission of bids is April 26, 2021.

Thanking You, Sincerely Dr. Ashok Sekhar Assistant Professor Molecular Biophysics Unit Indian Institute of Science Bangalore 560 012 Karnataka, India Phone: 91 80 2293 3416