



SHORT QUOTATION NOTICE

TU/11-24/Pur/Qtn/2017-18/5375 dated: 22/02/18

Sealed quotations are invited from reputed manufacturers/authorized dealers/vendors for supply, installation & commissioning etc. of **FPLC Equipment** required for the ICMR Sponsored Research Project of Dr. Robin Doley, Department of Molecular Biology & Biotechnology, Tezpur University. Those who have participated in response to our Earlier Notice No. **TU/11-24/Pur/Qtn/2017-18/4752-A dated 29.01.2018** need not participate again. However, revised offer/quotation if any may be submitted in reference to their earlier offer/quotation, and in such cases no Tender Fee and EMD is to be paid again.

Technical specification FPLC

- The system should be able to purify biomolecules including proteins and nucleic acids by ion-exchange, gel filtration, affinity chromatography or desalting using automated program in both analytical (microgram) and preparative (milligram) scale. The instrument should be upgradable, and easy to use.
- The system tubing and pumps should be compatible with the standard aqueous buffers and organic solvent (acetonitrile) used to purify biomolecules.
- The system should have dual piston, with interchangeable solvent delivery pump heads made of biocompatible material like PEEK or any other material that can resist organic solvent. The pumps should be able to operate at a flowrate between 0.4 to 50 ml/min in 0.01ml/min increments with a high pressure up to 1000 psi.
- Optional inlet valves should be available for multiple sample/buffer injection.
- It should be equipped with automated valve for portable sample injection through 100 µl to 5ml static loops and 25 & 90 ml dynamic or super loop.
- The system should be compatible for large volume sample loading through an optional gradient pump.
- Detector should have UV absorbance in the range of 200 to 400 nm or single wave length for 215 or 214 nm to monitor proteins.
- The instrument should come with a computer (latest version as required) installed with a suitable software to operate the instrument using apre-designed method and to analyze the result of chromatographic runs. It should be able to abort the run if the system pressure exceeds or anyother errors.
- The software should be able to compare 10 copies of chromatograms and peak analysis software should be provided along with all licenses and keys.
- The instrument distributor should provide free installation, training to the operators.
- The price quoted should be F.O.R tezpur.

Optional item

Fraction Collector –

Automated fraction collector compatible for the system with option to collect fraction in 1.5ml tubes, 15ml tubes, 50ml tubes & 96 well plates at all flow rate may be quoted.

