

The quotation should be supported with available printed brochure of the required item and authorized dealer certificate of the manufacturers. The quotation must reach the PI, Prof. Shanthy Sundaram (email ID: shanthy.cbt@gmail.com), Centre of Biotechnology, University of Allahabad, Allahabad on or before 15th September, 2017.



Prof. Shanthy Sundaram

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Principal Investigator D.R.D.O.
Development of Biogenic 3D
Nanoporous Silica-based Sensor
Centre of Biotechnology
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Specification for Chromatography System

- Accessories for all chromatography techniques like Ion exchange, Hydrophobic, Gel Filtration, Affinity, Desalting/ buffer exchange
- Pump with a flow rate of 0.1 to 50 ml/min with increment of 0.1ml/min and pressure rating of 10 bar (145 psi).
- All in one detector for UV (260/280nm), Conductivity Range of 1micro S/cm – 999.9 mS/cm.
- Detector should have a linearity of <3% up to 2Au at 254nm and <5% up to 1 Au at 280nm, Optical path length of 2mm.
- Detector should have option for adding additional filters : 313, 405, 436, 546 nm in the same detector
- Automatic motorized seven-port injection valve so samples can be applied automatically during a chromatography run.
- System must have built-in preprogrammed methods for the following chromatography applications: Desalting, Purification of His-tagged protein, Purification of GST-tagged proteins, Purification of monoclonal antibodies, IgM purification. Removal of albumin, Protein renaturation on column, Anion exchange chromatography and Cation exchange chromatography.
- Fraction collector with flow diversion valve, 95 tube rack of 18 mm must be an integral, built-in part of the System and should have option for 175 tube rack of 12 mm & 40 tube rack, 30mm
- pH monitor should be capable of pH measurement from 0-14
- Software to monitor signals from the chromatographic run in real time.