**< School of Biological Sciences >**

**Indian Institute of Technology**

**Hauz Khas, New Delhi-110 016**

# NOTICE INVITING QUOTATIONS

Dated: **< 01 July 2014>**

Tender No: <_____>

Subject : **<Purchase of "Protein Separation System" >**

**Invitation for Tender Offers**

Indian Institute of Technology Delhi invites **hardcopy** Bids (Technical bid and Commercial bid) from eligible and experienced OEM (Original Equipment Manufacturer) OR OEM Authorized Dealer for **<supply, installation & integration of "Protein Separation System" >** with three years on site comprehensive warranty from the date of receipt of the material as per terms & conditions specified in the tender document, which is available on CPP Portal https://eprocure.gov.in/epublish/app and IIT Delhi website https://www.iitd.ac.in/tenders .

**TECHNICAL SPECIFICATION:**

| Sl. No. | Technical Specifications | Remarks |
|---|---|---|
| 1 | **System should be capable of caring out all chromatography techniques like Ion exchange, Hydrophobic, Gel Filtration, Affinity, Desalting/ buffer exchange.** | |
| 2 | **System must have a pump with a flow rate of 0.1 to 50 ml/min with increment of 0.1ml/min.** | |
| 3 | **System must have a pressure rating of 10 bar (145 psi).** | |
| 4 | **All in one detector for UV (260/280nm), Conductivity Range of 1micro S/cm – 999.9 mS/cm.** | |
| 5 | **System should have a linearity of <3% up to 2 AU at 254nm and <5% up to 1 AU at 280nm, Optical path length of 2mm. should be able to monitor the Absorbance in range 0.01–5 AU (full scale).** | |
| 6 | **System should be supplied with Hg lamp for wavelengths 254 and 280 nm , further should have option for adding additional filters – 313, 405, 436, 546 nm in the same detector.** | |
| 7 | **System must have an automatic motorized seven-port injection valve so samples can be applied automatically during a chromatography run.** | |
| 8 | **System must have an automatic motorized eight port inlet valve on the buffer-A inlet so methods requiring three or more buffers or direct loading of large sample volumes can be run automatically.** | |
| 9 | **System must be provided with column holders.** | |

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| **10** | **System must be provided with Superloop 150 ml volume sample application** | |
| **11** | **Vendor should provide two pairs of additional Titanium alloy filters.** | |
| **12** | **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, Size Exclusion chromatography, Anion exchange chromatography and Cation exchange chromatography.** | |
| **13** | **Fraction collector with flow diversion valve, 95 tube rack of 18 mm must be an integral, built-in part of the System and vendor should also provide additional fraction collectors of following: 175 tube rack of 12 mm & 40 tube rack of 30mm.** | |
| **14** | **System should be able to run at Ambient temperature: + 4 to + 40 °C** | |
| **15** | **System should have pH monitor for pH measurement from 0-14** | |
| **16** | **System should include software to monitor signals from the chromatographic run in real time, evaluate and generate reports.** | |
| **17** | **System should include computer with windows operating system with serial port, which should be compatible to run the software and system.** | |
| **18** | **System should be supplied with gel filtration column of the following specification: Bed volume of 120 ml pre packed column, Spherical composite of cross-linked agarose and dextran; maximum pressure of 3 bar, particle size of 34 um and in the fractionation range of 1 x $10^3$ -1.0 x $10^5$ for proteins column dimension 1.6/60 cm** | |
| **19** | **Should provide UPS to run the system and computer in case of power failure, should have back up time 10 minutes or more.** | |
| **20** | **Electrical: 230V/ 50 Hz.** | |

**If any of the technical specifications offered are better than those listed, clear comparison should be provided in the compliance statement with a separate "Remarks" highlighting how the specification is better than that listed**

***Bid submission start date: 01 July 2014***
***Bid submission end date : 14 July 2014***
***Bid opening date : 21 July 2014***

***Purchaser:*** **< Dr. Ashok Kumar Patel>**,
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