

**Department of Biochemistry  
University of Lucknow  
Lucknow-226007**

**TENDER NO.: LU-Biochem/DST-PURSE/2019**

**Dated: 15 May 2019**

Short term Tender/Bid invited for **High Speed Refrigerated Centrifuge and HPLC system with accessories** in foreign currency/INR required for DST-PURSE programme in Biochemistry, operating in the Department of Biochemistry, University of Lucknow, Lucknow



**Non transferable**

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**Dated: 15 May 2019**

Sealed, Tenders/Bids are invited from registered, experienced & reputed firms under two bid system i.e. Technical Bid & Financial Bid, for **High Speed Refrigerated Centrifuge and HPLC system with accessories** being procured from the DST-PURSE instruments grant component operating in the Department of Biochemistry, University of Lucknow, Lucknow.

**1. Detailed description of various items required along with specifications  
(Please see Annexure I)**

**2. Time Schedule:**

- ❖ **Date of downloading of Bid document:** Till 07.06.2019.
- ❖ **Last Date & Time for receipt of tenders:** 07.06.2019 at 12:00 noon.
- ❖ **Date & Time for opening of Bid:** 07.06.2019 at 12:30 pm.
- ❖ **Place of deposit of tender:** Departmental drop box, Department of Biochemistry, University of Lucknow, Lucknow.

**3. Cost of tender Form:** Rs. 1,000.00 in form of bank draft separately for each equipment (one each for the centrifuge and HPLC system) in favour of Finance Officer, University of Lucknow payable at Lucknow must be enclosed with tender form. Cost of tender form is Non-refundable.

**4. Validity of Tender: 90 days** from the date of opening of tender.

**5. The interested firms may put the document completed in all respects along with Earnest Money Deposit (EMD) Rs. 40,000.00 (Rupees Forty thousand only) for the bid for High Speed Refrigerated Centrifuge and Rs. 50,000.00 (Rupees Fifty thousand only) for the bid for HPLC system with accessories**, in the name of Finance Officer, University of Lucknow, Lucknow-226007 in form of bank draft only from any nationalised bank.

**6. The University of Lucknow, reserves all right to amend or withdraw any of the terms and conditions contained in tender document or to reject any or all tenders without giving any notice or assigning any reason. The decision of University of Lucknow in this regard shall be final and binding on all.**

**Prof. Sudhir Mehrotra  
Head, Department of Biochemistry  
For Registrar, University of Lucknow, Lucknow-226007**

## Tender Form

The bidders should furnish the under mentioned information and also enclose the copy of the respective document as mentioned below failing which their bids will not be considered.

1. Name of the Firm (Full Address)
2. Name of the Proprietor
3. Telephone / Mobile Number
4. Bank Account Number
5. Income Tax Permanent Account Number  
(Please enclose photocopy)
6. Registration with Trade Tax (U.P.):  
Trade Tax Reg. No.  
C.S.T. No.  
ST / VAT No.  
TIN No.
7. Income Tax Return for the past 3 years. (Please enclose photocopy)
8. Firm deed & Registration of the firm: (Please enclose photocopy)
9. (a) Demand Draft towards the cost of the Tender Form:  
Draft No. Name of the issuing Bank  
Draft Amount Rs. 1,000/- for bid for each equipment separately.  
  
(b) Demand Draft for the Earnest Money Deposit (EMD):  
Draft No. Name of the issuing Bank  
Draft Amount Rs. 40,000/- (for refrigerated centrifuge)  
Draft amount Rs. 50,000/- (for HPLC system with accessories)

**Demand Draft should be drawn in favour of Finance Officer, University of Lucknow, Lucknow, payable at Lucknow. Tenders/Technical Bids not accompanied by the requisite Demand Drafts shall not be considered and shall be rejected.**

## Instructions to Bidders & Pre-Qualification Requirement of Bidders

### 1. Capacity

The firm should be capable of mobilizing adequate arrangement for the supply of for **High Speed Refrigerated Centrifuge** and **HPLC system with accessories**, required for the **component of DST-PURSE Programme** operating in the Department of Biochemistry, University of Lucknow, Lucknow.

### 2. Penalty

Penalty @ 10% of the value of the order shall be imposed for every day of delay in the supply of the full order.

### 3. Arbitration

In case of any dispute, the decision of University of Lucknow shall be binding. University of Lucknow has the right to cancel all or any of the tenders without assigning any reason.

### 4. Legal Jurisdiction

For legal dispute, if any, the jurisdiction will be limited to the District of Lucknow.

5. Rates quoted by the firms (L 1) are negotiable and must be quoted CIF New Delhi.

6. Technical and financial bids, duly signed and stamped, to be kept separately in sealed envelopes. The envelope containing bids be marked on top as "Technical/Financial bids for,

a. **High Speed Refrigerated Centrifuge** and

b. **HPLC system with accessories**

required for the component of **DST-PURSE Programme** operating in the Department of Biochemistry, University of Lucknow, Lucknow. **Proprietary certificate and Authorization certificate from principals must accompany the bid. A users list for the equipment must also be enclosed and MUST contain end-user email and telephonic contact details.**

7. Tender should be addressed to "**Head, Department of Biochemistry, Lucknow University, Lucknow-226007**".

8. With tender form, specification of equipment or item supplied must be written, sealed and signed by the authorized signatory.

9. Supplied scientific equipment/items must be as per given specifications. **Supplier must guarantee the presence of a competent service team and ensure a maximum downtime of 24 hours, subject to availability of spares.**

10. Quantity to be supplied may change at the time of order.

11. Non-compliance of order, in time, will be treated as non-compliance of the terms and conditions.

**12. No advance amount will be given.**

13. Without assigning any reason any tender or all tenders can be cancelled by the University authorities at any stage.

14. Affidavit will be given by the tenderer that they will follow the all the mentioned terms and conditions.

**15. Prices should be quoted F.O.R. Lucknow University** (DSIR/CDEC certificate will provided).

15. For bids in foreign currency only, 90% of the payment will be made to the firms via telegraphic transfer/Letter of credit and the rest 10% after successful installation of the equipment.

**Prof. Sudhir Mehrotra**

**Head, Department of Biochemistry**

**For Registrar, University of Lucknow, Lucknow-226007**

**Annexure I**  
**Specification of equipment**  
**1. HPLC system with accessories**

**SOLVENT DELIVERY SYSTEM**

Quaternary /Binary Gradient Pump  
Pressure range: 400 Bar or more

Flow calibration should be programmable with flow rate change from 0.001 to 10 ml/min or Better

Flow rate accuracy:  $\pm 0.5\%$  or better

Flow precision:  $< 0.1\%$  RSD or better

On line vacuum degasser: Built-in, 4-channels (may be optional for binary gradient system)

Column oven to accommodate Two Columns up to 250 mm

Temperature Range: 5 °C to 80 °C maximum 18 °C below ambient

**RHEODYNE MANUAL INJECTOR**

with sample loops 20 and 50 ul, 100ul ,500ul 1000ul to be offered.

**PDA DETECTOR**

Wavelength range 190-800 nm

Wavelength accuracy:  $\pm 1$  nm

Wavelength precision:  $\pm 0.1$  nm

Pixel/Optical resolution  $< 1$  nm or better

No of Photodiode: 1024

Baseline Noise level:  $10 \times 10^{-6}$  AU or better at 254 nm

Data acquisition should be up to 100 HZ or better

Temperature controlled flow cell (5-50 degree)

Flow cell: 10mm path length, 10 to 15 ul volume (Analytical standard)

**FLUORESCENCE DETECTOR AND CONDUCTIVITY DETECTOR SHOULD BE OFFERED AS OPTIONAL**

### **Chromatography software**

- Chromatography data system for control, acquisition, processing, & reporting software.
- It should have flexible reporting as users desires for complete chromatography information Reporting.
- It should also record the instrument event such as injection, complete instrument settings, changes & conditions in real time.
- Software should have 3<sup>rd</sup> party interfacing facility.
- Audit Trail and Auto Peak Processing features.

### **FRACTION COLLECTOR**

Software controlled fraction collector to be offered with at least 180 tube of 8 ml or more

Maximum Flow Rate : 150 mL/Min or more

Carryover Volume: 15 uL or better

### **Columns**

C18 Analytical Column (250mmx4.6mmx5u)- 1 No

C8 Analytical Column (250mmx4.6mmx5u)- 1 No

Guard columns ( 1 nos. each for above C8 & C18 Columns).

**Sample preparation kit/accessories, sample loading accessories: Syringes, filter holders and filters for sample preparation and filters for aqueous and separately for organic solvents must be included (100 filters of each type)**

### **OPTIONAL COLUMNS:**

These should be offered as optional

1. **Ion exchange:** Cation exchange, Anion exchange
2. **Gel filtration/size exclusion:** M. Wt range 5,000 to 3,00,000 (Range is indicative and may change in a minor way depending on column spec)

### **Branded PC (HP), Laser Printer & 3 KVA UPS (at least half an hour battery backup ).**

Latest configuration of i5 Processor with 4 GB RAM, 500 GB HDD, Windows 8 and 19" LED Monitor and Laser Jet Printer

### **Warranty and other terms**

- 2 years standard warranty should be included from the date of installation for the entire quoted HPLC configuration along with PC printer and UPS system. Conditional warranty will not be accepted, 2 years AMC additional after expiry of warranty should be quoted optional.
- Vendor should have service centre/office in North region.
- Training should be provided onsite.

### 3. HIGH SPEED REFRIGERATED CENTRIFUGE WITH ACCESSORIES

1. Capacity: 3 litre or more
2. Speed: Maximum G force- 40,000g or better
3. Temperature Range: -10°C to +40°C or better
4. Acceleration/Deceleration: 9 Accel, 10 Decel
5. Rotor Identification: Automatic
6. Warranty: 2 Years
7. Supply with Servo Voltage Stabilizer: 5.0 KVA with half an hr Battery Back up
8. Rotor (Carbon fibre/metal)
  - (a) Fixed angle 48x1.5 ml: 25000g or more
  - (b) Fixed angle 8x50 ml: 21,000g or more with 15 ml adapter for round and conical bottom tubes
  - (c) Rotor for ELISA plates with maximum 6 plates at 4,000g or better
9. Should be supplied with 50 ml and 15 ml tubes.

Further two years parts and labor warranty should be offered as **optional**