

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

TENDER NO.: LU-Biochem-ICMR-52/08/2019-BIO/BMS/01

Dated: 22 February 2020

Short term Tenders/Bids invited, under two bid system (Technical and Financial), for **Biosafety Cabinet Laminar Flow** and **Orbital Shaker incubator**, required for ICMR, Government of India funded project operating in the Department of Biochemistry, University of Lucknow, Lucknow



Non transferable

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

TENDER NO.: LU-Biochem-ICMR-52/08/2019-BIO/BMS/01

Dated: 21 February 2020

Sealed, Short term Tender/Bid are invited from registered, experienced & reputed firms under two bid system i.e. Technical Bid & Financial Bid, for **Biosafety Cabinet Laminar Flow**, required for ICMR, Government of India funded project, for establishment of an upgradable facility for microbial cultures, 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:** 22.02.2020 onwards till last day.
- ❖ **Last Date & Time for receipt of tenders:** 04.03.2020 at 11:00 A.M.
- ❖ **Date & Time for opening of Bid:** 04.03.2020 at 12:00 Noon.
- ❖ **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 from any Nationalised bank 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) 6,000.00 (six thousand only) 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.

Dr. Ashutosh Singh
Principal Investigator, 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/-

(b) Demand Draft for the Earnest Money Deposit (EMD):
Draft No. Name of the issuing Bank
Draft Amount Rs. 6,000/-

Demand Draft should be drawn in favour of Finance Officer, University of Lucknow, Lucknow, payable at any Nationalized bank payable at Lucknow. Tenders/ 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 **Biosafety Cabinet Laminar Flow**, required for ICMR, Government of India funded project, for establishment of an upgradable facility for microbial cultures, 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.

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 **Biosafety Cabinet Laminar Flow**, required for ICMR, Government of India funded project, for establishment of an upgradable facility for microbial cultures, operating in the Department of Biochemistry, University of Lucknow, Lucknow".

7. **Tender should be addressed in the name Dr. Ashutosh Singh, Principal Investigator, ICMR Project, Department of Biochemistry, Lucknow University, 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 equipments/items must be as per given specifications.

10. Quantity to be supplied and work to be completed 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. Payment will be made to the firms after successful installation of the equipment, via Telegraphic Transfer (T.T.), after deducting the Sales tax, Stamp Duty and Income Tax, if applicable, through the Finance & Accounts office of the University of Lucknow.

Dr. Ashutosh Singh

Principal Investigator, Department of Biochemistry

For Registrar,

University of Lucknow, Lucknow-226007

Annexure I

Specification of equipment

Short-term tenders are invited for the procurement of a **Biosafety Cabinet Laminar Flow**. Particulars of the items required for the above system are as follows:

1. Full body made up of CRCA, SHOULD MUST BE CLASSII TYPE II Gas On-Off with LED indication is electrically operated & does not disturb operator preset flow rate when shutting off gas. It also shuts off the gas & flame automatically when unit is switched off or in case of power failure, ensuring total safety.
2. U.V. Light in work chamber Inter Locked with Door & Fluorescent Lights i.e. it switches ON only when door is closed, and automatically switches OFF fluorescent lights.
3. 2-Stage Exhaust Protection:
 - i) HEPA Filters
 - ii) UV Burn out, with View window in work chamber to monitor its working.
4. Sliding Sash - Counter Balanced Door for effortless operation
5. Side Capture Zones: for capturing stray contamination from entering into or escaping from the work chamber form near sides walls.
6. Air Curtain on Table Front Edge: for preventing contaminants from entering into or escaping from the work chamber from table front edge.
7. Spillage Drain System: Collection Channels with Drain outlet provided under the work table.
8. Manometer: To monitor supply filters.
9. Front Arm Rest is provided to prevent operator's arms from the blocking air flow, and for user comfort, along with Foot Rest.
10. Electric Outlet: Provided in the work chamber for connecting any appliance
11. Laminar Airflow Velocity: Average of 0.45 m/s or 90 fpm measured 150mm/6" filter face for 45 air charges / minute work zone
12. Re-circulation: 70% of total Air Velocity
13. Exhaust: 30% of total Air Velocity
14. Air Cleanliness in Working Area: meets or exceeds US Federal Standard 209E Class 100, must be C.E certified
15. Main & Exhaust Filters: HEPA
16. HEPA Filters: Rated for min. 99.97% efficiency at 0.3 micron particle size QTY 1
17. Pre-Filters: Low pressure drop. High efficiency, 10 microns QTY 2
18. UV Sterilization: In work chamber & Exhaust Plenum. Emission in the germicidal band UV-Cm 254mm. Qty 2
19. Alarm: Door unsafe position
20. Half Speed Control: For idling periods to save energy
21. Noise Level: 58 dbA at operator level.

- 22.** Gas ON/OFF: Electrical, Flame Auto Off with power failure.
- 23.** Inter Lock: UV / Fluorescent Lites / Door
- 24.** Exhaust: Double Protection with HEPA & UV
- 25.** Motors/Blowers: Double Shaft, Balanced, low vibration
- 26.** Size: 4x2x2 ft
- 27.** Construction: Full body made of CRCA
- 28.** Fluorescent Lights: 2 in Nos.

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

2. Time Schedule:

- ❖ **Date of downloading of Bid document:** 20.02.2020 onwards till last day.
- ❖ **Last Date & Time for receipt of tenders:** 02.03.2020 at 11:00 A.M.
- ❖ **Date & Time for opening of Bid:** 02.03.2020 at 12:00 Noon.
- ❖ **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 from any Nationalised bank 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) 4,000.00 (Four thousand only) 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.

Dr. Ashutosh Singh
Principal Investigator, Department of Biochemistry
For Registrar,
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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/-

(b) Demand Draft for the Earnest Money Deposit (EMD):
Draft No. Name of the issuing Bank
Draft Amount Rs. 4,000/-

Demand Draft should be drawn in favour of Finance Officer, University of Lucknow, Lucknow, payable at any Nationalized bank payable at Lucknow. Tenders/ 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

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7. Tender should be addressed in the name Dr. Ashutosh Singh, Principal Investigator, ICMR Project, Department of Biochemistry, Lucknow University, 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 equipments/items must be as per given specifications.

10. Quantity to be supplied and work to be completed 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.

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Dr. Ashutosh Singh

Principal Investigator, Department of Biochemistry

For Registrar,

University of Lucknow, Lucknow-226007

Annexure II

Specification of equipment

Short-term tenders are invited for the procurement of a **Biosafety Cabinet Laminar Flow**. Particulars of the items required for the above system are as follows:

- 1.** The outer body should have a robust construction of 1 mm. thick mild steel with epoxy powder coating whereas the inner chamber should be made of corrosion resistant 1 mm. thick Stainless Steel 304 Grade.
- 2.** An ergonomic outer door with lock and key should be provided in order to prevent unauthorized access.
- 3.** There should be also a provision of an inner transparent door with latches for easy display of materials kept inside the incubator.
- 4.** Sturdy high grip anti vibration feet are fixed at the bottom for preventing walking of the unit.
- 5.** Magnetic door gasket should ensure complete sealing of the main door.
- 6.** The orbital shaker should have eccentric bearing mechanism.
- 7.** The platform should accommodate flasks of various capacities i.e. from 100 ml. to 2000 ml. 20 x 250ml
- 8.** The speed and time can be set with the help of soft touch keypad on a separate 16 x 1 LCD Display.
- 9.** Max speed is up to 300 RPM whereas the max. timer should be upto 9999 mins or infinite.
- 10.** User defined smooth acceleration and deceleration of the shaker should be available from 12 to 510 secs.
- 11.** Auto restart in case of power failure for the remaining time period.
- 12.** Maintenance free heavy duty low noise motors and drives are to be core part of this unit. Flasks can be easily replaced at the user end.
- 13.** Microcontroller based graphic LCD display should be provided for easy visibility of internal temperature from a distance.
- 14.** The controller has an accuracy of 0.5 °C and a readability & temperature increments of 0.1 °C.
- 15.** Eco-friendly refrigeration system comprises of a low noise highly efficient heavy duty hermetically sealed compressor.
- 16.** Maintenance free blower fans enable forced air circulation in order to achieve uniform temperature distribution.
- 17.** Temperature between ambient +5°C to 60°C inside the chamber.
- 18.** Should must be CE Certified.