

Pl.A1/BCH/17706/19

**Department of Biochemistry, University of Kerala, Kariavattom,
Thiruvananthapuram, Kerala, India - 695 581, Phone No. 9495276631**

E-Tender Notice

Advanced Centre for Tissue Engineering, Department of Biochemistry, University of Kerala, invites open tenders through e-Procurement from reputed manufacturers/authorized distributors/ Indian Agents with sound Technical and Financial capabilities for **Supply, Installation of Lyophilizer.**

Date of Publishing Tender	27-06-19, 3.00PM
Last date and time for submission of tender online	26-07-19, 5.00 P.M
Date and time of opening of tender	30-07-19, 11.00 A.M
For technical details contact	Dr. Mini S, Associate Prof. and Head, Department of Biochemistry, University of Kerala. Phone No. 9495276631 E-mail: minisaraswathy@gmail.com <i>miminisaraswathy@gmail.com</i>

For further details logon to www.etenders.kerala.gov.in

APPENDIX I - TECHNICAL SPECIFICATIONS FOR LYOPHILISER

- Microprocessor controlled with Digital display of temperature, incl.: 2 Air Cooled / hermetically sealed Step-Start Compressors with Delayed Start provision, Safety Alarms for Over load & LED alarm for different stages of temperature for the safe loading of Product, as standard, with temp. sensor
- Ice Condensing capacity/volume of 4 Ltrs. & temperature of -110°C to freeze dry sample containing Organic/Acidic solvents of low freezing point, besides Aqueous sample respectively. Ice Condenser & Cooling coil made of Corrosion resistant SS 316 & Cooling coil external to give larger Condenser surface area for faster condensation & Pre-freezing of sample inside the Ice Condenser, before start of Freeze Drying, Base Plate 300mm for connection of Chamber on top of Freeze Drier
- Vacuum Break device (Electrical Valve), Electric Vacuum Valve between Ice Condenser and Vac. Pump for safety, facilitate pre-run of Vacuum Pump to heat-up and evaporate the non condensable vapours of previous operation, prior to Start of freeze drying.
- **Chamber**, Clear Acrylic for better heat transfer **incl.** 3 SS unheated adjustable Shelves, 3 stainless steel trays (250 mm dia) & 4 Flask Ports (of 3/4" dia) with Quick Seal 3 way valve for freeze drying in R B Flasks / Wide Mouth Flasks or connection of Ampoule – Manifold / Chamber etc. Chamber Dia: 300 mm x 300 mm Ht.
- Drain Valve for easy / convenient draining of condensate
- Defrost by flood & flow method
- **High Vacuum Oil Pump, capacity:** 5.0 m³/hr. (3.0 CFM at 50Hz) of 2 Stage Rotary Oil-Sealed, with Gas Ballast Valve, Anti Suck Back Ventilation Valve with high capacity for effective freeze drying with critical sample, incl. Vacuum Oil, **Hose connection Kit**
- **Three Years comprehensive warranty(including service and spare parts)**

General Conditions:

1. Every tenderer should submit Tender fee of **Rs. 2,500/-**
2. Every tenderer should submit Earnest Money Deposit (EMD) of **Rs. 10,000/-**
3. The tender shall be submitted in the two bid viz. Technical Bid and Financial Bid. Only those qualified in technical bid will be eligible for participating in financial bid. A presentation regarding the technical specification and item to be supplied shall be done before the technical evaluation committee if requested.
4. The bidder should be a manufacturer or their dealer specifically authorized by the manufacturer to quote on their behalf for this tender as per Manufacturer Authorization Form and Indian agents of foreign principals, if any, who must have designed, manufactured, tested and supplied the equipment(s) similar to the type specified in the “Technical Specification”. Such equipment must be of the most recent series/models incorporating the latest improvements in design. The models should be in successful operation for at least one year as on date of Bid Opening.
5. **Compliance Statement:** Along with the technical details provide a tabular column indicating whether the equipment quoted by you meets the specifications by indicating 'YES' or 'NO'. If 'YES', support the claim by providing original brochures. **Venders should provide clear brochures/data sheets about the equipment and its working. Also include adequate proof for the claim regarding the performance.**
6. **Reference:** Names of Institutes with contact person and telephone/ email where similar equipment supplied by you in India [Suppliers with service centers in South India, preferably in Kerala] shall be an added advantage.
7. Incomplete & conditional tenders and tenders received after the due date will be summarily rejected without assigning any reasons thereof.
8. The price should be inclusive of all taxes, duties, transportation, insurance, installation etc. Nothing extra will be paid in addition to the quoted rate. Any amount in Indian rupees for installation, commission, labour, spares, service etc shall be entered in item 2 of BoQ.
9. **Payment Terms:** 90% payment shall be made through irrevocable LC on presentation of complete and clear shipping documents and balance 10% of the amount shall be released after the receipt, installation commissioning and acceptance of the equipment.

10. Validity of tender: Tender submitted shall remain valid at least for 120 days from the date of opening the tender. Validity beyond 120 days, from the date of opening of the tender shall be by mutual consent.
11. Delivery and installation: Proposed delivery schedule should be mentioned clearly. Delivery and installation and training (one week) should be made at the Department of Biochemistry, University of Kerala, Kariavattom campus, Trivandrum without extra cost (inclusive of documentation, demurrage, customs duty, clearance and transportation charges). University of Kerala will provide customs duty exemption certificates if required.
12. Service facility: Supplier should mention their details of service setup and manpower in Thiruvananthapuram who are responsible for after sales support.
13. The model number, make, and a printed literature of the product shall submit positively.
14. In case of any dispute, the decision of the University authority shall be final and binding on the bidders.
15. The undersigned reserves the right to reject any or all of the tenders received without assigning any reason thereof.
16. The quoted item should be under **comprehensive warranty for three years** or more.
17. If any component is found to be defective during the warranty period, the vendor has to replace the defective item immediately at their own cost.
18. The manufacturer /supplier should provide training in both hardware and software to the laboratory personnel in the installation, operation and maintenance of the instruments.
19. Complete technical details of pre-installation requirements should be furnished along with the technical bid. Vendors are expected to supply all other installation accessories, infrastructures, facilities and services required for successful installation and smooth operation of the equipment. Vendors may conduct the site survey before installation at no additional cost.
20. The supplier should be fully equipped to render us after sale service during warranty and thereafter.

Documents to be uploaded:

1. Signed Compliance Matrix
2. Detailed Technical Brochure
3. Under taking of support for next 10 Years

4. BoQ
5. Tender fee