

## Department Biotechnology, University of Kerala

Kariavattom, Thiruvananthapuram, Kerala, India - 695 581

04/02/2022

### E-Tender Notice

Department of Biotechnology, University of Kerala, Kariavattom invites open tenders through e-Procurement (in two bid system), from reputed manufacturers/authorized distributors/ Indian Agents for the purchase of the equipment 'Refrigerated incubator shaker' in the Department.

Last date and time for submission of tender online	<b>05/03/2022: 5 PM</b>
Date and time of opening of Technical bid	<b>09/03/2022: 11AM</b>
Date and time of opening of Financial bid	After technical Evaluation.
For technical details contact	Dr. A. Gangaprasad Professor and Head Department of Biotechnology Phone :0471-2308778 Email : agangaprasad@gmail.com

## TECHNICAL SPECIFICATIONS

SL NO	ITEM	TECHNICAL SPECIFICATION
1	<p><b>Refrigerated incubator shaker - Stackable</b></p> <p>To maintain a controlled environment to grow biological samples either in shaking mode or in incubation.</p> <p>Mainly used in microbiology, cell and tissue culture, Enzyme technology etc...</p>	<ul style="list-style-type: none"> <li>▪ Microprocessor PID control and auto-tuning</li> <li>▪ Maintenance-free BLDC motor for smooth, quiet, uniform, and powerful shaking motion</li> <li>▪ Large Viewing glass window to monitoring sample without affecting Chamber Environment and easy access drain system.</li> <li>▪ Colour Touch screen LCD controller</li> <li>▪ Temperature Range 4°C to 80°C with Fluctuation <math>\pm 0.1^\circ\text{C}</math> at 37°C</li> <li>▪ The system should be Orbital shaking Motion with shaking Size 0.75</li> <li>▪ Speed Range should be 20 to 500 rpm</li> <li>▪ Timer should be available for 1 min. to 999 hr 59 min.</li> <li>▪ Audible alarm for any deviation in set and actual Rotation and Temperature.</li> <li>▪ Automatic shaking speed adjustment and automatic run after power interruption.</li> <li>▪ Smooth acceleration and deceleration</li> <li>▪ Smooth start and smooth stop function for avoid chemical spills from flasks</li> <li>▪ Stopping the shaking platform always at the same position is Preferable</li> <li>▪ .Air-tight silicone door seal for temperature uniformity.</li> <li>▪ Corrosion resistance stainless steel interior</li> </ul>

		<ul style="list-style-type: none"><li>▪ Over current protection</li><li>▪ CFC-free refrigerant. The system should compliance with RoHs</li><li>▪ Platform size approximately 35cm X 35 cm</li><li>▪ Built-in RS-232 port and USB port for external control and data collection.</li><li>▪ Universal platform for keeping at least 10 numbers of 250ml flasks and 2 numbers of 500 ml flasks at a time to be supplied.</li><li>▪ Clamp should be made of single piece stainless steel. There should not be any welding</li><li>▪ Clamps should be supplied from OEM.</li><li>▪ The system should have a facility to use as an Incubator with support of wire shelves.</li><li>▪ The system should be supplied with at least 2 height adjustable wire shelves to keep flask and dishes.</li><li>▪ The system should have Internal Power outlet inside the system.</li><li>▪ The system should have provision to upgrade Mobile Monitoring.</li><li>▪ Approximate weight not exceed 175 Kg</li><li>▪ Vendors should produce at least 3 performance certificates from reputed Institute.</li><li>▪ Vender has service centre in Kerala is preferable.</li><li>▪ Minimum 2 years warranty.</li><li>▪ Should be CE Certified.</li></ul>
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## Terms and 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 proposals shall be submitted in two parts ie **Technical bid and Financial bid**.
4. Quantities can be increased or decreased by purchaser and bidder has to supply deviated quantities at the rates prescribed and approved by the purchaser in the tender document. Purchase of optional items will be finalized at the time of financial evaluation. However, the bidder must quote the optional items. The bidder should quote all items; partial quote will not be accepted.
5. **Original Equipment Manufacturer (OEM) Certificate/ Undertaking:** If the bidder is not an OEM, Certificate of authorized dealership/ distributorship from the OEM for technical support to the bidder and supply of spares shall be furnished.
6. Incomplete & conditional tenders and tenders received after the due date will be summarily rejected without assigning any reasons thereof.
7. Commercial bids of short-listed vendors will only be opened. Please note that the Vendor(s) who do not qualify in the technical bid will not be considered for commercial bid.
8. The bidder must not sub-contract the work to other providers.
9. The prices quoted must be on **“all-inclusive till destination”** basis. The prices quoted should be inclusive of all Taxes, Insurance, Freight, Packing & Forwarding Charges, Handling, Delivery Charges, installation charges etc.
10. **Payment terms:** Payment against delivery and successful installation of the equipment in the department.
11. The configuration given is the minimum configuration that is/are required. Vendors may choose to supply higher/better/ enhanced systems/peripherals, but their financial quotes shall be treated as if they have been offered for the specified configuration only.
12. The Bidder shall bear all the costs associated with the preparation of the documents, submission of its bid and we will in no case be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.
13. The bid shall be typed and shall be signed by the bidder or a person duly authorized to bind the bidder to the contract.
14. The bid shall contain no interlineations, erasures or overwriting except as necessary to correct errors made by the Bidder. In such case the person or persons signing the bid shall

initial such corrections.

15. The bidder is expected to examine all instructions, forms, terms, condition, and technical specifications in the tender Documents. Failure to furnish all information required by the tender Documents or submission of a bid not substantially responsive may result in the rejection of its bid.
16. The bidders shall give undertaking that all the Components used in the equipment shall be original make as per the technical specifications submitted and the hardware/software shall be supplied with the authorized license certificates, if found contrary the supplier shall replace the component/equipment with original one at their own cost.
17. Validity of tender: Tender submitted shall remain valid at least for 90 days from the date of opening the tender. Validity beyond three months from the date of opening of the tender shall be by mutual consent.
18. Delivery and installation: Proposed delivery schedule should be mentioned clearly. **Delivery and installation should be made at Department of Biotechnology, University of Kerala, Kariavattom Campus Trivandrum - 695581, without any extra cost. Complete installation, testing and demonstration of the system and day to-day maintenance are to be provided at site (inclusive of documentation, demurrage, customs duty, clearance and transportation charges)** .The Supply and installation of items must be made within four weeks from the date of issue of supply order. Delay in supply will lead to penalty @1% of the value of tender for every week of delay or part thereof. (i.e. exceeding three days will be calculated as one week). If it is found that the items so supplied are not as per supply order specifications, the supply made will be rejected and Earnest Money Deposit will be forfeited.
19. Warranty period will start from the date of successful installation of all the items at site.
20. Service facility: Supplier should mention their details of service setup and manpower in Trivandrum who are responsible for after sales support.
21. In case of any dispute, the decision of the University authority shall be final and binding on the bidders. The undersigned reserves the right to reject any or all of the tenders received without assigning any reason thereof.

**Documents to be uploaded:**

1. Signed Compliance Matrix
2. Detailed Technical Brochure

3. BoQ
4. Detailed Financial Bid in pdf format.

**Registrar**