



## UNIVERSITY OF DELHI SOUTH CAMPUS

Department of Microbiology

University of Delhi South Campus

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### **E-tender Notice**

**(Re-tender)**

Ref. No. 2020-3613/CMB/ADHOC-BMS/R1

Date: 21/07/2022

Tender specification for **One “Bacteriological Incubator-Shaker (Refrigerated Floor Model)”**  
with accessories purchase through e-procurement portal

The quotations are invited through e-tender for **One Unit** of “**Bacteriological Incubator-Shaker (Refrigerated)**” with accessories. Tenders are hereby re-invited in two-bid system (Technical & Financial) from the manufactures or their authorized dealers for the supply. **The quoted price should be FOR destination in INR** (Indian Rupees only) upto Department of Microbiology, University of Delhi South Campus, including supplying and installation (**under 2 Years of “Comprehensive warranty” from the installation date**). The last date of bid submission is **4th August 2022 by 05:00 PM as per the tender specifications mentioned below:**

### **Specifications for Bacteriological Incubator-Shaker (Refrigerated), (Qty. 01 nos. with accessories)**

- 1. Model:** The shaker-incubator should be **Floor Model** that can incubate, shake, refrigerate and illuminate. It should be based on an easily stackable design for two more units without need for large accessories for stacking.
- 2. Capacity:** The stackable front open, glide up door refrigerated incubator shaker of maximum up to 30 liters capacity (5000 ml X 6) along with option for static incubation shelf. The shaker platform must have load capacities of at least 35 kg measuring 76 (W) x 62 (D) x 0.8 (H) cm.
- 3. Smooth Shaking:** The system should have robust Drive with five eccentric shafts for smooth shaking without much vibration even with high capacity 5-liter flasks on the platform and it has latest counterbalance technology for vibration free shaking which senses imbalance and reduce the speed in order to protect the samples.
- 4. Multi-Step Programming:** The shaker system must allow for unlimited multi-step programming and number of programs for ultimate convenience and to meet complex growing conditions and should allow timed programming for speed and temperature for bacterial culture.
- 5. Accessible While Wearing Gloves:** Touch screen interface with comprehensive data display accessible even while wearing gloves in case of using for pathogenic bacterial culture.
- 6. Speed:** The shaker should have speed range must be from 25 to 400 or more rpm with  $\pm 1$  rpm increments with stringent accuracy controls of  $\pm 0.5$  rpm.

**7. Operational Temperature Range:** The shaker-incubator must allow user to set minimum of 4°C with broad temperature range of at least 20°C below ambient up to 80°C or more. The temperature accuracy of  $\pm 0.1^\circ\text{C}$  with a uniformity of  $\pm 0.25^\circ\text{C}$  or better at 37°C.

**8. Slide-Out Platform:** The shaker-incubator platform may be slide-out for easy access of samples and can be removed if required, at user-level must be easy with simple release of fasteners and should not require any tool.

**9. Platform:** The system must have a universal platform (at least 70cm X 60cm) and provisions to hold different sizes of flasks (10 mL to 5 L) and at least 45 flasks of 250 mL capacity.

The system must be supplied with flask clamps to hold variable sizes flasks including **250 ml clamps (8 nos.)**, **500 ml clamps (6 nos)**, and **3000 ml clamps (4 nos)**. The universal platform must have future usage possibility to directly install sticky pad on the platform without any special adapter kit.

**10. Front Viewing Window:** The incubator shaker should have large viewing window with proper chamber light that minimizing the need to open the door and option for using removable darkening window shade in case of light sensitive samples.

**11. Safety Alarm:** The alarm system should have audio-visual alarms for deviation of  $\pm 5$  rpm or more and temperature  $\pm 1^\circ\text{C}$  or more against the set parameters and in case of power failure or door open. The shaker-incubator should have a safety switch to automatically stop the shaking mechanism when door is opened.

**12. Programmable and Continuous Shaking Operations:** The incubator shaker controller should be programmable for speed up/down and temperature up or down on a timed basis and should be able to operate at programmable shaking periods from 1 hr to 95 hrs.

**13. Display and Operation:** The incubator shaker should have multifunction single knob operation or key-pad with/without touch screen and should have LCD display indicating speed in 1 rpm increments, temperature, time and alarm conditions. All sensors should be located inside the shaker-incubator for precise control and display of different parameters.

**14. Incubating Shelf:** The machine should have adjustable height shelf for incubating petri plates etc with shaking flask of size up to 4L simultaneously and it should have capability for Large-Capacity Accessory Platform that can accept glassware up to 6L.

**15.** The equipment should be CE certified.

**16.** The incubator-shaker should carry **2-years comprehensive warranty** on all parts and labour from the date of installation.

**17.** Model No. of the incubator-shaker should be mentioned.

**18.** The Model quoted should not be obsolete or discontinued by OEM and spare parts should be available from OEM for a minimum period of 5 years.

**19.** The vendor should enclose detail user list of minimum 50 for the same model or similar/higher model (in case of new upgraded model) equipment installed in various reputed Universities/ institutes/Colleges/research labs/ICAR/CSIR/ICMR institutes throughout India. The provided user list must have complete details including name, address and contact number.

20. Minimum 10 installation report of same model or similar/higher model (in case of new upgraded model) must be attached.
21. The vendor should have at least 15 years of track record of supply of refrigerated incubator shaker. Documentary proof to be submitted.
22. All vendors are requested to attach original technical literature/ catalogue in support of the mentioned specifications & highlight the above features. The same features should be available in the company website.


**Note:**

- i. The price quoted should be F.O.R destination and inclusive of standard installation in INR against customs duty exemption certificates/GST concession certificates that would be provided by the buyer.
- ii. The company should not have been blacklisted by any Government organization. The company must provide undertaking in this respect.
- iii. Technical literature/catalogue for the specification's compliance should be enclosed. The same features should be available on the company website.
- iv. Bidder should be Manufacturer/ Authorized Partner/ Reseller of the manufacturer and a Letter of Authorization from the manufacturer for the same and specific to the tender should also be enclosed. The bidder should also be the Authorized Service Provider. (Attach the required certificate)
- v. All vendors are requested to attach original technical literature/ catalogue in support of the mentioned specifications & highlight the above features.
- vi. Please note: **IGST/CGST+SGST@5%** would be applicable for supply to University of Delhi South Campus (TU/V/RG-CDE (14)/2021 dated 04/10/2021 (valid up to 31/08/2026) or **18% whichever is applicable as per the govt. guideline.** The DSIR Certificate/CDEC would be provided on request if applicable.
- vii. The quotations should be addressed to **Dr. Vijay K. Verma**, Department of Microbiology, University of Delhi South Campus, Benito Juarez Road, New Delhi-110021, and should be **uploaded on the e-procurement portal, latest by 4th August, 2022 by 05:00 PM.**
- viii. Quotations have to be submitted through e-tender **system**. The **Technical bid**, should consist of all technical details and supporting documents with terms and conditions. **A Compliance Sheet must be filled by the bidder** against each point and give reference of the same (page number, line number) in the supporting company brochure/document.
- ix. The **Financial bid** should contain item-wise pricing of items mentioned in the technical bid.
- x. The bidder will have to quote all the required items together: partial quotes will not be accepted. For each item, make and model have to be mentioned clearly.
- xi. The quote should be valid for 90 days from the due date.
- xii. Payment will be made by wire transfer or through an online system as per University rules after the successful completion of installation and commissioning of the equipment.

- xiii.** The delivery period should be within 2 months from the date of receipt of order. Bids offering delivery period beyond stipulated time period may be treated as non-responsive and will be summarily rejected.
- xiv.** Authorization certificate from the manufacturer should be attached. The certificate should indicate about the responsibility of the warranty period. The supplier/OEM will be responsible for the installation and providing service and maintenance support during the warranty period. The certificate should also indicate about the responsibility of the OEM during the warranty period in case there is change in the authorized distributor/agent/subsidiary.
- xv.** The breakdown of the equipment should be attended within 24 hours of the call (on site) and to be fixed in maximum 72 hours, beyond which, the time taken for the repair will be added to the warranty period.
- xvi.** Bid splitting is not allowed and incomplete bids will be rejected. Only bids for the complete requirement with accessories and designated warranty period will be considered.
- xvii.** Payment will be made as per rules following satisfactory installation of the equipment by the supplier/manufacturing company.

### **Commitment to Accept Lowest or Any Tender**

- Demonstration of the equipment with all accessories (mentioned in tender document) will be required on the recommendation of the Purchase Committee at Department of Microbiology, University of Delhi South Campus, New Delhi-110021.
- The University of Delhi shall be under no obligation to accept the lowest or any other offer received in response to this tender notice and shall be entitled to reject any or all offers. The University of Delhi will not be obliged to meet and have discussions with any vendor and or to listen to any representations.

  
Dr. Vijay K. Verma  
Principal Investigator (OCR No. 828)  
ICMR Project titled "Unravelling.....Helicobacter Pylori"  
Project No. 2020-3613/CMB/ADHOC-BMS dt. 14/10/2021  
Department of Microbiology,UDSC, New Delhi-110021