

**Department of Biochemistry  
University of Delhi South Campus  
Benito Juarez Road, New Delhi 110021**

**Quotation Invitation Letter**

**Date: 11/02/2019**

Ref. No. – UDSC/BIOCHEMISTRY/Alo/e-procure-

**PURCHASE OF BENCHTOP OPEN AIR ORBITAL SHAKER**

**Name of the equipment: Orbital shaker (open air)**

**Quantity: One**

**Specifications and Technical Details:**

1. The shaker should possess microprocessor controls for accurate regulation of shaking speeds.
2. Shaker must have solid state and DC brushless motor.
3. Shaker should have easy to use membrane keypad with LED display.
4. Shaker should preferably have shaking speed between 25-500 rpm ( $\pm 1$  rpm) for culturing a wide range of cell types.
5. The equipment should have triple Eccentric Counter balance drive in cast iron housing for vibration free uniform motion.
6. The speed controller and the display should have provision for showing increments of as low as 1 rpm.
7. The shaker must have clearly audible and visible alarms for rpm and time.
8. Shaker should have timer ranging from 0.5 to 99h with continuous operation or automatic shut-off at the end of the set time.
9. Shaker should maintain the entered settings (set point) during power interruption and restarts when power resumes.
10. In order to prevent internal damages from accidental spills, the shaker should have enclosed electronics and mechanical components.
11. For smooth run, the shaker should have special acceleration circuit to prevent sudden starts/stops as a safety measure.
12. Desirable shaker platform dimension: 13 x 11 inch and it should accommodate four flasks of 500ml each
13. Shaker must have shaking orbit of 1.9 cm.
14. Shaker dimension should be less than 15x 15x6 inch (W x D x H).
15. The shaker must have CE or other standard international certifications
16. The equipment should have comprehensive on-site warranty, 12 months from the date of installation with facile after sales service.

## General instructions

- Premium branded instrument should be provided to ensure the high quality and reliability of your work.
- Installation list in premier institutes in last 5 years is to be provided.
- 3 reference contacts are to be given.
- Website/literature justifying the technical specifications.
- The shaker should be supplied with at least a warranty period of one year from the date of delivery with facile after sales service.
- Supplier should have service center in Delhi/NCR for quick service.

### Instructions to Suppliers:

Two types of quotations are to be submitted: **Technical** and **Financial**.

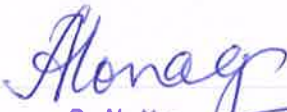
**Technical Quotations** should contain all details of technical specifications of the equipment including manufacture and model details along with commercial terms and conditions, warranty and delivery schedule. The quote should be valid for a minimum of 120 days from the due date. Pictures of the equipment must be included with similar specifications as above with logo or name of the company on them. Authorization certificates from the Principal manufacturer, if any, must be provided. Proprietary certificate for any proprietary or patented item must be provided. Unique features maybe highlighted along with their applications and advantages over other available accessories. A user list of atleast 3 users of the equipment quoted (who have installed and used them successfully for years) with addresses / e-mail IDs / phone numbers should also be provided.

**Financial Quotations** should contain price of the equipment, discount if any, packaging and forwarding charges, Air Freight and insurance charges. The customs duty exemption certificates will be provided by the buyer and inclusive of standard installation. The vendor should upload the quotations through e-procure site.

### **No Commitment to Accept Lowest or any Tender:-**

- Demonstration of the item or its use will be required, if needed.
- Institute reserves the right to order equipment/accessories with better quality and suitability over lower price and to accept or reject any or all quotation without assigning reasons thereof.
- 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. University of Delhi will not be obliged to meet and have discussions with any vendor, and orto hear any representations.

  
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