

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

Quotation Invitation Letter

Date: 08.09.2015

Ref . No. – UDSC/BIOCHEMISTRY/

PURCHASE OF INCUBATOR SHAKER (REFRIGERATED)

Sealed quotations are invited for the following equipment so as to reach the undersigned latest by **September 30, 2015 (5pm)**

Name of the equipment : Incubator Shaker (Refrigerated)

Quantity : One

Specifications and Technical Details:

- Capacity of the Incubator : Atleast 6 flasks of 1L (and higher if possible).
- Temperature Range: 15°C below usual temperature in the laboratory to 75°C. Temperature accuracy must be within $\pm 0.1^{\circ}\text{C}$ with an expected uniformity of $\pm 0.25^{\circ}\text{C}$.
- Shaking Speed: Require speed of 30 to 350 rpm with variation of ± 1 rpm and shaking orbit of about 1" (2.5cm).
- The chamber should have a shelf whose height can be adjusted for incubation or storage capability.
- Alarm should indicate when speed deviates more than 5 rpm or temperature deviates more than 1°C from set point, and when timer operation has expired.
- The instrument is expected to have simple programmable controller that automatically changes temperature and speed at timed intervals. It should be capable of holding 4-5 programs of not more than 10-15 steps each.
- Shaker should have capability for chamber humidification; reduced sample evaporation and protection from spills.
- Platform size: Atleast 45cm X 45cm or higher. Universal platform should be able to hold at least 20 ± 2 clamps for 250ml flasks.
- The model should be compact in size and shape so that it is possible to use the shaker on or under the lab bench or double stacked for space savings.
- It should be CSA, UL, ISO & CE certified.
- System should be supplied with clamps for 250ml (4 Nos), 500ml (4 Nos.), 1L (4 Nos) and 2L (2 Nos) flasks made up of single piece of stainless steel without any welding, joint etc. If higher clamp numbers can be provided it will be better.
- Warranty must be applicable for 12 months from the date of installation with facile after sales service.

- The compressor must use CFC-free refrigerant.
- Chambers must be properly illuminated for clear visibility.
- Drive Mechanism: Triple-eccentric counterbalanced drive.

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 actual model of the instrument must be attached showing previously manufactured incubator shaker with similar specifications as above with logo or name of the company on the equipment. Authorization certificates from the Principal manufacturer, if any, must be provided. Proprietary certificate for any proprietary or patented item must be provided. Unique features of the equipment maybe highlighted along with their applications and advantages over other available models.

A user list of atleast 10 users of the model quoted (who have installed and used the instrument successfully for years) with complete addresses / e-mail IDs / phone nos should also be appended.

Financial Quotations should contain price of the equipment, discount if any, packaging and forwarding charges, Air Freight and insurance charges. The price quoted should be F.O.R. destination.

The supplier should seal both the quotations in separate covers. Both these sealed covers are to be put in a separate bigger envelope, which also be sealed and superscripted.

Institute reserves the right to order equipment with better quality and suitability over lower price and to accept or reject any or all quotations without assigning reasons thereof.

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