

Indian Institute of Technology - Kanpur
Department of Biological Sciences & Bioengineering

Enquiry Number: IITK/BSBE/AKS/NC/2014-15/08, dated: 20-11-2014

Sub.: Inquiry for Digital Orbital Shaking incubator system.

Opening date: November 24th 2014 at 10:00 AM

Closing date: November 30th 2014 at 5:00 PM

Sealed quotes (technical bid and price bid separately sealed) are invited for the above mentioned laboratory product as per the specifications given in the next page.

Your quote should mention/include the following:

- Maximum discount if any should be offered and mentioned.
- Quoted price should include the cost for installation, warranty and required accessories (see below).
- Validity of the quote at least for 90 days.
- FOB (indicating port of shipment) and CIF (New Delhi) values should be quoted separately if import is required. For quotes in INR, the price quote should be for delivery at Kanpur.
- The quote should cover insurance for transport up to Kanpur.
- Indian agency commission if applicable (should be certified by the principal if no agency commission is applicable) in case of import.
- Authorization certificate from the principal if you are a local agent.
- Terms and conditions for the payment, including the banker's name of the principal and the account number, if any, for electronic transfer.
- Include proprietary item certificate if applicable.
- Technical literature to support your product (in technical bid).
- Users' list with contact address in technical bid.

Note: Only principal manufacturers or authorized representatives are requested to send the quote along with proper certificates. The envelope should be marked as "***Inquiry for digital orbital shaking incubator system***"

Dr. Arun K Shukla
Department of Biological Sciences & Bioengineering
Indian Institute of Technology,
Kanpur 208016 (UP)

Items Required: Digital orbital Shaking Incubator (quantity 01)

- Fully Balanced CFC free Refrigeration system consisting of ISI Mark Sealed should be included.
- Compressor charged with CFC free refrigerant with condenser cooling fan Motor and Necessary relay & Guards should be provided to have temperature range room 5°C to 60°C.
- Specially designed Heating element of Kanthal A-1 nichrome wire should be provided to achieve above ambient Temperature.
- Temperature should be controlled by a Microprocessor based dual display auto tuned P.I.D. digital temperature indicator cum controller with SSR power Supply and RTD Pt-100 sensor to control the temperature with accuracy of $\pm 0.5^{\circ}\text{C}$, having display resolution of 0.1°C
- The dynamically balanced shaking system consists of sealed Ball bearings based Triple Eccentric drive mechanism should be included which ensures reproducible, smooth rotating motion in 1" orbit.
- Shaking speed from 20 to 250 strokes per minutes should be achievable with latest soft start "DELTA" AC Frequency speed drive with Digital speed Indicator and step less speed regulator.
- Inner working chamber size should be at least 24"x24"x30" (WXDXH). having Stainless steel shaking platform of size 20"x20" to hold 4 clamps for 5000ml flasks,
- It should be supplied with 4 Nos. clamps for 250ml, 500ml, 1000ml, 2000ml which can easy be fitted by easy screw openings.
- It should be supplied complete with Voltage stabilizer of Triple step of suitable rating to protect the Instrument against voltage fluctuation and High Voltage Input.
- Control Panel Consisting of Mains Switch, PID, Temperature Controller, Digital Speed control Drive, with required indicator light, switches and safety fuse should be provided. Suitable for Single phase 230 V AC Power supply. It should come with connecting cord and plug Top.

Important: Please attach a summary table to highlight the compatibility of your set-up against specific features mentioned here. Absent this table, quotations will not be considered.

Please note:

Warranty and AMC: Minimum one year warranty and additional two year AMC must be included in the quoted price. Absent this, the quotations will not be considered.

Accessories: Appropriate voltage stabilizer and UPS for the equipment should also be included in the quotation.

The Vendors providing the quotes should have several installations in and around Kanpur and have service center at Kanpur/Lucknow area.