Indian Institute of Technology Kanpur
Environmental Engineering and Management
Department of Civil Engineering

Professor Vinod Tare **Post Office: I.I.T Kanpur – 208016**

Enquiry No- **CE/EEM/2016-17/ NC/ OSI /2** **Date: February 8, 2017**

Last Date: February 16, 2017

Sub: Call for quotation for **Orbital Shaking Incubator**

Sealed Quotation(s) are invited (in Indian rupees) for the purchase of Orbital Shaking Incubator. 1 No. (One) quantity.

Its technical details are as follows-

Technical Data	
Temperature Range & Accuracy	5°C to 60°C, ±0.5°C
Internal Volume (Liters)	250 Liters approx.
Platform Size	580mm x 600mm
Shaking Speed	20 to 500 rpm
Shaking Amplitude	25 mm
Shaker Motion	Oribital (Clockwise & Anticlockwise)
Maximum shaking capacity	9 flasks x 2000 m L
Temperature control	Microprocessor with PT-100 sensor
Display	4" LCD Screen, Large size Display for ease of reading
Power Failure Alarm	Audio Visual Alarm
Door Open Alarm	Audio Alarm in case door open for over one minute
Temp. Variation Alarm	Set Temperature ± 2°C, Audio Visual Alarm
Illumination	≥8 Watts Fluorescent Tube
Internal Body Material	Stainless Steel
External Body Material CRCA Steel	Powder Coated
Insulation (CFC Free polyurethane foam)	70 mm minimum for Body & 80 mm for Door
Noice Lavel	Less than 65 dB(A)

Other Requirement

1. Automatic restart at pre-set speed and temperature in case of power failure
2. Audio visual alarm when the temperature and RPM deviates from the set Value
3. Chamber illumination with fluorescent lamp 2 Nos.
4. 0-24 Hrs. Cyclic timer for illumination control
5. Digital display of speed with pre-set facility.
6. Digital Timer for orbital shaker
7. Safety Feature- Safety-door & thermal safety switches; auto shut-off upon fan failure.
8. Plate from: To accommodate all interchangeable clamps of assorted sizes for different capacity of flasks. (maximum capacity) 100 ml x 40 flasks, 150 ml x 34 flasks, **250ml x 23 flasks,** 500 ml x 16 flasks, 1000 ml x 9 flasks)
9. Inner Chamber S.S. 304 & Outer chamber M.S. powder coated with Plexi glass inner door
10. Suitable Voltage stabilizer (Optional).

Send sealed quotation(s) to the following address by 12.00 pm of **February 16, 2017**.

Dr. Vinod Tare
Environmental Engineering Laboratory (WL-116),
Department of Civil Engineering
IIT Kanpur

Thanking You
Sincerely,

Vinod Tare