

**SCHOOL OF BIOLOGICAL SCIENCES  
Indian Institute of Technology Delhi  
Hauz Khas New Delhi 110016, India**

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**September 13, 2013**

**Subject: Notice Inviting Quotation (NIQ) for purchase of Table Top Shaker Incubator**

Sealed quotations are invited from reputed companies or their authorized representatives for supply of one table top Shaker incubator confirming to the technical specifications (or superior than specified) and prescribed terms and condition as prescribed under. Interested parties are requested to submit their sealed quotations in an envelope containing the financial and technical bids in separate sealed envelopes inside. The NIQ (Notice Inviting Quotation ) should be addressed to **Prof. S. E. Hasnain , School of Biological Sciences, IIT-Delhi, Hauz Khas, New Delhi 110016** and should **reach the School of Biological Sciences office, IIT-Delhi by 10:00 hrs on October 04.10.2013.**

SPECIFICATIONS FOR ELECTRONIC ORBITAL TABLE TOP LABORATORY SHAKER WITH ENVIRONMENTAL INCUBATION HOOD

- \* Compact table top or bench top refrigerated shaker with universal platform to accommodate assorted clamps of various capacities.
- \* Insulated thermal pane glass door for viewing cultures without opening the door.
- \* Shaker must have movement incorporating Triple Eccentric Pin with Counter Balance done.
- \* Balanced top plate mounted on three permanently lubricated bearings fitted with housing to ensure non deviated amplitude of 25mm throughout the entire speed range of 30-350 RPM with an accuracy of +/- 2% of the set value.
- \* Drive should be direct current driven motor with permanent Magnet connected with pitched pulley.
- \* Temperature control through soft key pad with visual and / or audio alarm for temperature over / under shoot.
  
- \* Temperature control should be of PID based microprocessor controller with control of AL 1, AL2, CL parameters.
- \* Temperature control should have in built Surge protected to prevent control parameters deviations during power fluctuations.
- \* Sensor should be platinum tipped grade 100.
- \* Universal tray to accommodate 25 Nos. of 250 ml. (or) 16 Nos. of 500 ml. (or) 9 Nos. of 1000 ml. (or) 4 Nos. of 2000 ml (or) 36 no's of 100 ml
- \* Shaking Motion: Orbital
- \* Universal Tray Size: 420 x 420 mm
- \* RPM Indication: Digital
- \* Temperature Range: 10° to 60° C
- \* Temperature Accuracy:  $\pm 0.1^{\circ}$  C @ range 37.1°C to 60°C
- \* Heater Power: 500 W
- \* Electrical Requirement: 230 V, 15 A, Single Phase, 50 Hz.
- \* Unit should complied universal standard safety measures of CE certified.
- \* ISO Certified company.
- \* The Warranty must be 2 years followed by one year free service. Warranty and free service periods would be after the date of installation.

**General instructions:**

1. Letter from the manufacturer specifically to quote for this tender is to be attached for authenticity of dealership/ agency and the dealer should be authorized service provider.
2. Vendor should get a fresh certificate directly from their product principal's clearly mentioning about warranty for two years of the equipment to be delivered. The lowest quotation however, does not depend upon the warranty period.
3. Special discount / rebate wherever admissible keeping in view of that the supplies is being made for educational purpose in respect of public institution of national importance may please be indicated.
4. Validity of the quotation should be at least three months.
5. Vendors will do the installation and demonstration of the equipment at IIT Delhi premises without additional charges.
6. Taxes, terms and conditions should be clearly mentioned.
7. In the case the items are proprietary products of the company, a proprietary item certificate stating the same may be provided.
8. Specifications form should be similar to the given specifications sheet.
9. A compliance statement for required specifications should be attached.
10. Payment terms and conditions should be clearly mentioned. No advance payment is encouraged by IIT Delhi.
11. Firm MUST provide a compliance statement vis-à-vis specifications in a "tabular form" clearly stating the compliance and giving justification, if any supported by technical literature with clear reference of page number, paragraph or lines. This statement must be signed, with the company seal, by the tendered for its authenticity and acceptance that any incorrect or ambiguous information found submitted will result in disqualification of the tender. The quotation should be complete in all respects. (as per IIT-Delhi rules).

**The Institute/ purchase committee has the right to accept or reject any bid or all quotations without assigning any reason whatsoever.**