

**January 9, 2015**

**NIQ for one Refrigerated Incubator Shaker**

Sealed quotations are invited for the supply of one refrigerated incubator shaker with shaking platform and stationary platform in single machine in the Department of Biochemical Engineering and Biotechnology. The technical specifications for the incubator shaker are given below.

Specifications:-

- The temperature range should be 15°C below ambient to 80°C
- The temp uniformity should be  $\pm 0.5^\circ\text{C}$  (in flask)
- The chamber temperature accuracy should be  $\pm 0.1^\circ\text{C}$ .
- It should have a minimum of two shaking platforms and one stationary platform.
- The minimum platform size should be 18" X 18" universal platform which can hold approximately 16 of 250 ml OR 16 of 500 ml OR 9 of 1000 ml flasks (on each platform).
- It should have internal light for sample visibility.
- The range of rotation speed should be 15 to 500 rpm.
- It should have possibility of continuous/timed operation from 0.1 hour to 999 hours or 0.1 minute to 999 minutes.
- It should have LED display for viewing speed, operation time and temperature.
- Shaker should have visual/audible alarms to signal if unit operates  $\pm 10\%$  of set speed or if temperature deviates  $\pm 1^\circ\text{C}$  of set point.
- It should have sensor to stop platform motion due to unbalanced load.
- Auto restart facility should be there.
- It should have over-temperature safety feature
- Safety interlock should be there to prevent shaking when the door is open.
- International certification will be desirable.
- Clamps for 250 ml flask (8), 500 ml flask (6), microplate clamp (1) Test tube rack (1 no.) (17-20 mm, 4x 10 array)

**Terms and conditions:**

1. A minimum comprehensive warranty of 5 years from the date of installation of the instrument.
2. Comprehensive on-site training to the users after installation.
3. Catalogue in original with all technical specifications printed on the catalogue. Principal needs to declare the year of launch of the quoted model.

**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 three years of the systems to be delivered.
3. Special discount/ rebate wherever admissible keeping in view that the supplies made for educational purposes in respect of the public institution of national importance may please be indicated.
4. Vendors should attach the relevant product brochures and list of users for the model quoted.
5. Validity of the quotation should be at least three months.
6. Vendors will do the installation and demonstration of the equipment at IIT Delhi premises without additional charges.
7. Taxes, terms and conditions should be clearly mentioned.
8. In the case the items are proprietary products of the company, a proprietary item certificate stating the same may be provided.
9. Specifications form should be similar to the given specifications sheet.
10. A compliance statement for required specifications should be attached.
11. Payment terms and conditions should be clearly mentioned. No advance payment is encouraged by IIT Delhi.
12. 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 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.**

Sealed quotations in separate envelopes of Technical and Commercial bids kept in one sealed outer envelope (super-scribed "Quotation for 1 **Refrigerated Incubator Shaker**" should be addressed to **Dr. Preeti Srivastava, Department of Biochemical Engineering and Biotechnology, IIT-Delhi, Hauz Khas, New Delhi 110016** and should reach the **Department of Biochemical Engineering and Biotechnology, IIT-Delhi by 1500 hrs by January 23<sup>rd</sup>, 2015.**