

**CENTRE FOR RURAL DEVELOPMENT AND TECHNOLOGY  
INDIAN INSTITUTE OF TECHNOLOGY-DELHI  
HAUZ KHAS, NEW DELHI-110 016**

Dated: 11-Jan-2012

**Notice Inviting Quotations**

Sealed quotations in separate envelopes of technical and commercial bid kept in one sealed outer envelope, are invited for purchase of a **Thermal cycler** and **Automatic Cell Counter (separate quotation for each instrument)** as per specifications given below. Your sealed quotation should reach **within 15 days** from the date of advertisement, **to the Head, Centre for Rural Development and Technology, Indian Institute of Technology, Delhi (IIT Delhi), Hauz Khas, New Delhi-110016**. Your quotation must be super-scribed “**Quotation for Thermal cycler**” and “**Quotation for Automatic Cell Counter**”

**1. Specifications desired for the purchase Thermal cycler**

1. The quoted system should be latest and fast gradient PCR system.
2. The quoted system should be authorized system for PCR applications.
3. Gradient Thermal Cycler with Peltier heating and cooling based system for advanced demands.
4. Block to be supplied: High speed gold anodized silver block for 96 x 0.2ml PCR tubes, plates or strips with linear as well as exponential gradient feature for quick optimization of new protocols.
5. Should have gradient span of 40°C and linear gradient tool for programming of equal temperature increments between the 12 columns of the block.
6. Should have a temperature range of 3-99 °C with control accuracy of ± 0.1 °C.
7. Should have a maximum ramp rate of 6.0°C/sec and average ramp rate of 5.0°C/sec.
8. Should have temperature uniformity down to +/- 0.15 °C.
9. Should have high performance smart heated lid for improving temperature uniformity in the range of 30 – 99 °C.
10. Should have auto-restart feature in the event of power failure.
11. Software should have options like Quickstart of the last five programs, gradient temperature graph, toggle between spreadsheet and graphical mode, adjustable ramp rates, extended self test, service files, PC control, pre-installed protocols etc.
12. The system should be a licensed PCR and have at least 2 years warranty.
13. The system software should be CFR11 compliant.

## 2. Specifications desired for the purchase Automatic Cell Counter

1. Automatic Cell Counter with High sensitivity counting and viability studies for algae, yeast and fungal spores.
2. The system should have at least a 10 x magnification and must support both Trypan blue Viability and Fluorescence dyes such as PI, FDAs, SYTO 9, DAPI, SYTOX-GREEN, GFP (suitable optics module with Excitation/Emission range of 475 nm/535 nm & Excitation/Emission range of 525 nm/595 nm). Other optics module may be quoted as option.
3. The system must support Cell /organism size 3-25  $\mu\text{m}$ , cell Concentration Range:  $2.5 \times 10^5$  to  $1 \times 10^7$  cells/ mL and sample volume up to 50  $\mu\text{l}$ .
4. Image modes provided with bright field and minimum two fluorescence channels. The necessary filters for counting and viability of Yeast, Algae, Fungal spores and Human Platelets must be included within the offer.
5. The system must support interchangeable filters for the two fluorescence channels for any kind of measurement / viability studies.
6. System must include high sensitivity lamp module with 6 high sensitivity lamps.
7. Capable of acquiring both bright field and fluorescent images from the same sample.
8. Image analysis software for analyzing the cell size & number, distribution and fluorescence intensity.
9. 500 disposable slides to be provided with the instrument along with different pack size of disposable slides to be offered as optional.
10. Suitable voltage stabilizer to be supplied free of cost along with the instrument.

### **Terms & Conditions:**

1. The quotations must have validity of at least four months.
2. Sealed quotations should be in separate envelopes of technical and commercial bid kept in one sealed outer envelope.
3. Quotation must include insurance and air-freight charges, delivery period of the items addresses to The Indian Institute of Technology, Delhi, India (FOB, New Delhi).
4. The products will be used for educational purposes. Any applicable academic institution discounts should be offered and stated.
5. Detailed Brochures should accompany the offer.
6. If the bidder is an authorized dealer then the authorized Indian dealership certificate from the principles should be enclosed.
7. Two year comprehensive warranty.
8. Payment will be through irrevocable letter of Credit.
9. In case the items are proprietary products of the company, a proprietary item certificate stating the same must be provided.
10. Institute reserves the right to accept or reject any or all the quotations without assigning reasons thereof.
11. Details of User List with phone number and email ID should be provided.