

Call for quotation.

Sealed quotations are invited for a the following equipment, with the specifications given, in the Department of Biotechnology, University of Kerala, Kariavattom, Thiruvananthapuram **within 15 days of this notification.**

High speed gradient PCR system 230V/50 – 60Hz,

- Gradient PCR with Peltier technology based heating and cooling of ensuring precise control of temperature
- Should be upgradable to RT
- Sample capacity- Silver block for 96 x 0.2ml PCR Tube or 96 well PCR strips or 96 well plate
- Volume range: 10 μ l -100 μ l
- Should be capable of testing temperatures at Denaturation, Annealing & Extension steps
- Should be able to test 12 different temperatures in gradient function
- Gradient technology should ensure identical ramp rates in both gradient and normal operation
- Gradient temperature range from 30 –99 °C with 0.1°C minimum gradient spread
Block temperature control range must be 4°C to 99°C
- ‘Fast, Standard and Safe’ temperature control modes providing ultimate flexibility for different applications.
- Adjustable user defined ramp rate to meet sensitive experimental conditions
- Lid Temperature range: 37 - 110 °C
- Block Temperature Accuracy: $\pm 0.2^\circ\text{C}$
- Block Homogeneity: $\leq \pm 0.3^\circ\text{C}$ (20°C to 72°C); $\leq \pm 0.4^\circ\text{C}$ (90°C)
- Heating rate: 5 °C/s
- Appropriate technology with Thermal sample Protection (TSP) to accommodate PCR tubes with flat or domed caps
- Should have large Led display with Intuitive Graphic programming

- Display size: 7 – 10 inches
- Display dimension: 800 x 480 or higher
- Display Type: Full Touch Screen
- Should have Administrator and user login with or without PIN for enhanced security
- Inbuilt advance scheduling feature for user's convenience will be a preference
- Pre-programmed protocol templates for easy selection
- Should have Time and/or Temperature increment with cycles in PCR program
- Customized programming should allow a maximum of 20 steps and 99 cycles
- Auto Restart facility with user defined time interval when power fails and resumes Instrument should display remaining runtime in larger font and the status of the run Should have Two USB ports: for Protocol transfer, Self-test, USB, printer / mouse
- Should have Log book function for error messages and new calibration, E-mail Notification
- Power save Standby function
- Cooling vents at bottom and rear allow placing other instruments in limited bench space
- Interface: 2 x USB port ,Ethernet
- Three year warranty

Please send the quotations to the

**Head, Department of Biotechnology
University of Kerala,
Karivattom, Thiruvananthapuram.**