

# UNIVERSITY OF KERALA

(Established as University of Travancore by the Travancore University Act in 1937 and reconstituted as University of Kerala by the Kerala University Act of 1957 and presently governed by the Kerala University Act of 1974 passed by the Kerala Legislative Assembly.

Accredited by NAAC with A++ grade)

## DEPARTMENT OF BOTANY



KARIAVATTOM  
THIRUVANANTHAPURAM 695 581  
KERALA, INDIA

Phone +91-471-2308301

Tele-fax: +91-471-230 8301

Web site: [www.keralauniversity.ac.in](http://www.keralauniversity.ac.in)

e mail: [botany@keralauniversity.ac.in](mailto:botany@keralauniversity.ac.in)

No. 14/BOT/466/22

14.10.22

### QUOTATION NOTICE

Quotations are inviting for the following item in the Department of Botany, University of Kerala, Kariavattom, Thiruvananthapuram.

#### Specification for PCR Machine

Required quantity- 1 No.

#### Specifications

- The system will be a 96 x 0.2ml well Thermal Cycler.
- Three different assays with varying annealing temperatures at the same time.
- Ability to set up PCR with a specific temperature differential of up to 10 degree centigrade between blocks; (5°C zone-to-zone, with 3 VeriFlex" zones).
- Run up to 3 separate temperatures in the same plate with user defined time to determine the optimal annealing temperatures.
- The system will support PCR volumes ranging from 10 to 100 microlitre.
- Display: 8-inch color TFT LCD
- Instrument Memory: 2,000 MB onboard memory; onboard capacity >1,000 protocols.
- The system to provide access to stored protocols or transfer protocols to Memory stick.
- The system to support Block Temperature Range starting from 0°C - 100°C.
- Temperature Uniformity <0.5°C 20 Sec's after reaching 95°C.
- Temperature Accuracy of 0.25 °C (35-99.9 °C).
- System will have a programmable heat lid cover from 50 degree to 105 degree centigrade for efficient PCR optimization.
- System will have sample ramp rate of 3°C/sec and Block ramp rate of 4°C/sec
- The instrument will connect by Wi-Fi or LAN to the internet and remote monitor run status by free mobile App.
- The instrument software will be designed to allow programming an Auto- Delta program, which can increment and decrement set-point times and/or temperatures by a fixed amount every cycle.

#### Terms and Conditions


- The price quoted should be that applicable for the educational institutions.
- The items should have an onsite warranty for at least 2 years.
- Prices are to be quoted FOR DESTINATION (Department of Botany, University of Kerala, Kariavattom). The prices quoted should clearly indicate the following charges: Price of the

equipment; Price of optional accessories if any; Customs duty (after submission of custom and excise exemption certificate); Customs Clearance Charges, transportation charges and installation charges. If these details are not provided it will be considered that the price quoted is inclusive of all charges.

- Technical Bid and Financial Bid must be placed in individual sealed envelopes and these envelopes must be placed inside a bigger envelope.
- Only one model can be quoted in a tender. If the tenderer wants to quote for more than one model separate tenders should be submitted. If more than one model is quoted in a single tender it will be summarily rejected.
- The undersigned reserves have the right to reject any or all of the tenders received without assigning any reason thereof.
- If any of the components is found to be defective during the warranty period, the vendor has to replace the defective item immediately at their own cost. Supplier authorization letter and specification compliance sheet to be provided along with the quotation. The interested bidders shall submit their best possible offer before last date to the undersigned.

The bid technical and financial separately complete in all respects may be submitted to Professor & Head, Department of Botany, University of Kerala, Kariavattom, Thiruvananthapuram 695 581, on or before 28.10.2022, 3.00 pm



  
**Dr. E.A. Siril**  
**Professor and Head**

**PROFESSOR AND HEAD**  
Department of Botany  
University of Kerala, Kariavattom  
Thiruvananthapuram - 695 581