



Dr. Viji Vijayan
Assistant Professor
Department of Biochemistry
University of Kerala
Kariavattom Campus
Thiruvananthapuram
Kerala INDIA 695 581
vijivijayan@keralauniversity.ac.in
Ph: +91 9074529255



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BCH/UOK/Non-Plan/NBL/gradient thermal cycler/2022-23

Sealed quotations are invited from the reputed firms/ manufactures/distributors for the supply of **gradient thermal cycler** with relevant specifications on or before 8 December 2022 at 3.00 PM. Sealed quotations should be addressed to **Dr. Viji Vijayan, Principal Investigator, Setting up of neurobiology lab (Phase II) – Department of Biochemistry (Plan Fund), Department of Biochemistry, University of Kerala, Thiruvananthapuram - 695581** with superscription "**Quotation for the supply of gradient thermal cycler**". The quotations will be opened on 8 December 2022 at 11AM in the presence of such tenderers or their authorized representatives who may be present at that time.

Specifications for gradient thermal cycler

1. The thermal cycler should have 96 well block format and compatible with 0.2 ml PCR tubes, strip tubes and a 96 well plate
2. Should have a block ramp rate of 4°C/sec or better
3. Should have Peltier based heating and cooling
4. Peltier block should have three or more segmented temperature zones with a range of 20°C (10°C from zone to zone)
5. Should be enable to set upto three user-defined annealing temperatures simultaneously
6. Temperature range of the block should be 0°-100°C and should have heated lid with temperature adjustable upto 105°C
7. Instrument should have gradient feature to precisely set target temperatures for PCR optimization
8. Temperature accuracy: $\pm 0.25^\circ\text{C}$ (35°-99.9°C)
9. Temperature uniformity: $< 5^\circ\text{C}$ (30 sec after reaching 95°C)
10. Sample volume range: 10-80 μL
11. The instrument should have the ramp rate simulation feature to run other PCR instrument models with pre-programmed thermal simulation modes

12. Should have the security system to create username and password for each user as well as the password protection could be turned off under the administrative user
13. The thermal cycler should have the auto restart facility in the events of power failure
14. It should have a memory to store 1000 or above experimental protocols
15. Instrument should have USB provision
16. It should have provision for convenient remote access of monitoring using cloud or equivalent networks
17. Should have user-friendly touch screen LCD display (8 in or above)
18. Should be a CE certified model
19. Should have warranty for 3 years

Terms and conditions

1. The prices quoted should be that applicable for educational institutions.
3. The firm should extend service within 24 hours.
4. Prices are to be quoted FOR DESTINATION (Department of Biochemistry, University of Kerala, Kariavattom). The prices quoted should clearly indicate the 4 following charges: Price of the equipment including taxes; Price of optional accessories if any; Customs duty if any (after submission of custom and excise exemption certificate); Customs Clearance Charges, transportation charges and installation charges etc. If these details are not provided it will be considered that the price quoted is inclusive of all charges.
5. Technical Bid and Financial Bid must be placed in individual sealed envelopes and these envelopes must be placed inside a bigger envelope.
6. 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 single tender it will be summarily rejected.
7. Performance Certificate of the specified model should be attached along with the quotations.
8. The undersigned reserves the right to reject any or all of the tenders received without assigning any reason thereof.
9. 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.
10. **Specification compliance sheet to be provided along with the quotation.**
11. Quotations should also include all the supportive work for installation, loading and unloading of the equipment.
12. The interested bidders shall submit their best possible offer before last date to the undersigned.
13. Should be a certified company which has provided at least 5 installations of products within or outside India
14. The rate quoted shall be valid for a period of one year.

Sd/-

Dr. Viji Vijayan
Principal Investigator
Setting up of Neurobiology Lab (Phase II)
Department of Biochemistry