



KERALA VETERINARY AND ANIMAL SCIENCES UNIVERSITY
BIOSCIENCE RESEARCH AND TRAINING CENTRE
Thonnakkal, Thiruvananthapuram, Kerala

Tender Notice

No. KVASU/BRTC/06/2024 [SP-I/ E]

Dated: 26.07.2025

Sealed Tenders are invited for the purchase of **Gradient Thermal Cycler** (Imported-specifications attached) at the Bioscience Research and Training Centre, Thiruvananthapuram, Kerala under the State Plan Project 2025-26 (Scheme code SP/25-26/VI-10).

Last date for the receipt of Tender is on **11.08.2025, 2.00 P.M.** and will be opened at **2.30 P.M.**, on the same day in the presence of bidders or their authorized representatives.

All the rules / regulations applicable to Government tenders will be applicable to this Tender also. EMD and Agreement in the Kerala stamp paper as detailed below should be furnished along with the Tender. Further details, if any can be had from office of the undersigned during working hours.

Equipment Name: Gradient Thermal Cycler

Units required: 1 (One)

Technical Specifications

1. The equipment should have true gradient capability for end-point PCR applications with inbuilt algorithm for gradient control.
2. The block format should have a sample capacity of 96 x 0.2ml tubes, 0.2ml tube strips or one 96-well plate and use Peltier heating and cooling.
3. Block material should be made of high-performance aluminum or silver ensuring uniform heating across wells.
4. The system should support a temperature range of 4°C to 100°C.
5. It should have a programmable gradient function with gradient capability of up to $\pm 24^{\circ}\text{C}$ across the block and an operable gradient range between 30°C and 100°C.
6. The system must support a maximum ramp rate of $\geq 4.0^{\circ}\text{C}/\text{sec}$ with an average ramp rate of $2.5^{\circ}\text{C}/\text{sec}$.
7. The temperature accuracy and uniformity must be $\pm 0.5^{\circ}\text{C}$ or better across the sample block.
8. Should allow a programmable temperature differentials of 1-25°C across the gradient block
9. The instrument should include a high-resolution color touchscreen interface for easy programming, protocol editing, and user navigation.
10. It should have a built-in library of standard and specialized PCR protocols, including long PCR, fast PCR, reverse transcription PCR, and gradient optimization.
11. The instrument should provide identical hold times for all the 8 rows during gradient PCR, with only the annealing temperatures varying across the gradient.
12. It should support reaction volumes from 1 μL to 100 μL .

13. The system should have an internal memory to store more than 500 user-defined programs, with provisions for additional storage and file transfer via a USB.
14. The thermal cycler should support both block mode and calculated temperature control mode
15. The software should allow export of run logs and system error logs via USB
16. The instrument should have a quick boot-up time, not exceeding 1 minute from power-on to ready status.
17. Power requirements should be compatible at 220–240 V AC and 50 Hz.
18. The unit should be quiet in operation.
19. The system should have an instant incubation mode to maintain a constant temperature for ligation or restriction digests without cycling.
20. The instrument should be equipped with a pressure-adjustable heated lid capable of reaching up to 110°C, compatible with flat or domed caps.
21. The lid should include a secure closure mechanism for uniform pressure distribution and user safety.
22. The system should operate under ambient temperature conditions of 15°C to 30°C and relative humidity up to 80% non-condensing.
23. The unit should be compatible with commonly available 0.2 mL PCR tubes, strips, and plates without requiring proprietary consumables.
24. Provide dust cover and power cable as standard accessories.
25. The supplier must include installation, calibration, demonstration, and user training at the time of delivery.
26. The supplier must have authorized service support based in Kerala for the quoted model. A supporting document from the manufacturer should be submitted with the bid.
27. A list of installations of the same model within Kerala (preferably in academic or research institutions) should be provided.
28. The instrument must carry a valid CE certification for PCR application. A copy of the certificate must be attached.
29. The vendor should specify the onsite warranty period and provide optional AMC pricing for 3 years post warranty.

TERMS AND CONDITIONS

1. The envelopes containing the tender should bear the superscription "Tender for the supply of Laboratory Equipment- **Gradient Thermal Cycler**", and should be addressed to The Co-ordinator, Bioscience Research and Training Centre, Thonnakkal, Thiruvananthapuram, Kerala – 695 317.
2. Each tender should be accompanied by an EMD of 2.5% of the total quoted amount in the form of Demand Draft in favour of the Co-ordinator, Bioscience Research and Training Centre, Thonnakkal, Thiruvananthapuram - 695 317 payable at the State Bank of India, Mangalapuram.
3. Firms who are exempted from payment of EMD should furnish attested copy of the currently valid certificate from the Store Purchase Department, Government of Kerala.
4. The tender should also be accompanied by an agreement in Kerala stamp paper worth Rs. 200/- as per format appended in the tender form. Late and incomplete tenders and tenders without EMD and agreement in Kerala stamp paper will not be accepted.
5. Tenders should be submitted in the tender forms. The tender form can be downloaded from the University website (attached along with this tender notice) and cost of tender form is Rs. 0.2% of total cost of the equipment (min. Rs. 400/- +GST @18% and Rs.50/- and above will be rounded to next hundred and vice versa). The cost of tender form can be remitted to the A/c No. 39963071138 (IFSC: SBIN0005317, SBI, Mangalapuram) of the Co-ordinator, Bioscience Research and Training Centre, Thonnakkal, Thiruvananthapuram at the time of submission of tender through online transfer. The details of online transfer should be noted in the tender.
6. Successful bidder on confirmation of the tender will have to furnish a Performance Security of 10% of the total cost of the equipment and execute an agreement in Kerala Stamp paper worth Rs.200/-. Performance Security in the form of Bank Guarantee drawn in favour of Co-ordinator, Bioscience Research and Training Centre, Thonnakkal, Thiruvananthapuram, payable at S.B.I., Mangalapuram is to be furnished.
7. The exact specification details of make, model, name of manufacturer etc., of the equipment offered must be clearly specified. Copies of detailed technical literature and illustrated brochures of equipment tendered are to be furnished along with the offer. The operating manuals are to be supplied along with the equipment. The specification of the accessories should be provided.
8. We are exempted from the payment of customs and excise duty for our procurements and hence prices quoted should be exclusive of these.
9. The rates quoted should be only in Indian currency. The rate of only one model should be quoted. The prices quoted should be inclusive of all taxes, cess, accessories etc., which are or may become payable by the contractor under existing or future laws or rules of the country of origin/supply or delivery during the course of execution of the contract. The rate quoted must also include the transportation and installation charges. The tenders should clearly indicate the net cost of the machine and taxes/levies separately.
10. The equipment should have a warranty for a minimum of one year from the date of installation. Details of warranty offered should be clearly stated in the tender. Period

of firmness of the quoted prices should be clearly stated in the offer. AMC beyond warranty for a period of 3 years should be quoted.

11. Withdrawal of tenders after its acceptance or failure to supply the equipment during the specified period or not according to the specifications will entail cancellation of the tender and purchase will be effected from elsewhere at the expense of the contractor. The successful bidder should supply the items at Bioscience Research and Training Centre, Thiruvananthapuram within a month from the date of supply order. Otherwise, the items will be purchased elsewhere and any loss incurred thereby will be payable by the defaulter. In such events, the University reserves the right to remove the defaulters name from the list of Kerala Veterinary and Animal Sciences University suppliers permanently or for a specified period.
12. The articles should be of good quality, properly packed and in conformity with the item quoted in the tender. If the article is found to be inferior quality or not in conformity to the specification as per tender will be summarily rejected and the supplier will have to take back the material at his quote within 15 days of intimation.
13. In case when the successful tenderers having made partial supplies fail to fulfill the contract in full, all or any of the material not supplied will be purchased by means of tender quotation or negotiation or from the next lowest tenders who had offered to supply already and the loss if any, caused to the University together with such sum as may be fixed by the University towards the damages shall be recovered from the defaulting tenderers.
14. The authorized dealers must submit a certificate from the principals stating that they are the authorized dealers of the company's product in India.
15. The Co-ordinator, Bioscience Research and Training Centre, Thonnakkal, Thiruvananthapuram reserves the right to reject any tender without assigning any reason thereof.
16. Late tenders and tenders without EMD, tender form and agreement will be summarily rejected. All rules pertaining to Govt. Tenders will be applicable to this tender also.

- Note:**
1. The warranty period for the equipments should be for a minimum period of one year from the date installation, unless otherwise specified.
 2. Should be an ISO Company and instruments manufactured should comply in Indian/International standard
 3. The company should not have been black listed by any Government organization.
 4. Client list should be enclosed along with the offer.
 5. Validity of the tender should be for 8 months.
 6. Authorized dealers should ensure prompt servicing of the equipment.
 7. Bidder should have a local support office in India for immediate support.
 8. The manufacturer should be in the same business for the last 5 years.





Co-ordinator

CO-ORDINATOR
Bioscience Research & Training Centre
Kerala Veterinary and Animal Sciences University
Thonnakkal, Thiruvananthapuram-695317