

## SPECIFICATION FOR THERMAL CYCLER/ PCR

S No	Thermal Cycler/PCR Specification	
1	Features	High throughput 3x32or 96-well (0.2 ml) format
2	Max block ramp rate	6.0°C/sec or better
3	Max sample ramp rate	4.4°C/sec or better
4	Temperature accuracy	±0.25°C (35°–99.9°C) or better
5	Temperature range	0°–100.0°C or better
6	Temperature uniformity	<0.5°C (20 sec after reaching 95°C) or better
7	PCR volume range	10–100 µL
8	Instrument memory	USB, onboard (800+ PCR methods)
9	Display interface	At least 8.4-inch color TFT LCD
10	Power	100–240 V, 50–60 Hz, max: 950 VA
11	Data connectivity	Cloud or mobile via Ethernet or Wi-Fi
12	Temperature calibration	Calibrated to standards traceable to the National Institute of Standards and Technology
13	Additional Features:	<ul style="list-style-type: none"><li>• Onboard Tm Calculator</li><li>• Thermal Simulation mode</li><li>• Option to upgradable blocks with independent temperature zones</li><li>• Installation at least 50</li><li>• Password protection</li><li>• Cloud connects</li></ul>
14	Blocks options	Upgrade or Optional Interchangeable block for 96 well, 2 x 96-well (0.02 mL);

### Conditions for tenderer:

1. All accessories should be from the same Original Equipment Manufacturer for the main unit.
2. Instruments must be ISO certified and a copy should be enclosed. (The ISO Certificate must be issued by any organization accredited by the Bureau of Indian

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- Standard or accredited by the international accrediting forum "IAF" (Certificate to be attached).
3. Should be USA FDA and European CE be approved by 4 digits notified body.
  4. Other necessary certifications if any required will be provided by the bidder for the smooth functioning of the machine.
  5. Installation process should be performed by O.E.M trained service engineers/ service representatives on OEM letterhead or Service Report within 15 days of supply, with the mandatory provision of providing preventive services visit of OEM trained Service Engineer/ Service Representative quarterly per year till the completion of warranty period (i.e., 20 visits for the first 05 years) & further quarterly visits (04 visits/year) year till the completion of CMC period.
  6. The equipment should have a Brand name/ Model Number embossed/etched on the equipment.
  7. All the technical specifications in the compliance statement must be supported by Original Literature from the firm/ O.E.M with highlighting Numbering & flagging of all technical certificates.
  8. Offered Equipment should have a strong Government Installation base.
  9. Offered Equipment should have a Regional Sales Service Centre of the Original Equipment Manufacturer in the region for a 95 % uptime guarantee.
  10. For the offered main unit, the essential, optional required consumables'/accessories' shelf life should be declared on the Original Equipment Manufacturer's letterhead.
  11. In case of technical snag/failure/breakdown the response time for the inspection should be within 24 hours and repair within 05 days otherwise provide a service machine/ alternate arrangement to be made till the period of recovery of the breakdown of the unit, failing which attracts penal action as per the decision of institute/ hospital.
  12. For offered equipment the Training of technical staff and users should be performed by Original Equipment Manufacturer trained Service Engineers at the proper designated place- at bidders' cost.
  13. Company should quote their latest model and need to provide an affidavit for the same.
  14. As a tendering process the Demonstration of the offered Equipment is Mandatory at hospital/institute premises or other designated places at the bidder's cost.

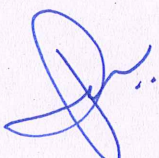
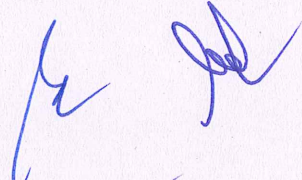
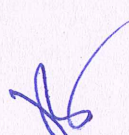
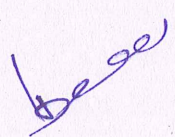
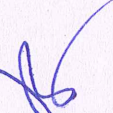
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21. System configured application-specific educational video tutorials shall be provided as standard with the system.
22. Details of service outlet in India to render services during 5 years warranty period.
23. The principals must give a certificate if the supplier/vendor is changed during the course of the guarantee/warranty period, the principals would be responsible for the upkeep/maintenance of the quote/supplied equipment, besides honouring all the terms and conditions of CMC/AMC in letter and spirit.

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