



**INDIAN INSTITUTE OF TECHNOLOGY KANPUR**  
**Department of Chemical Engineering**

**Contact:**  
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**Enquiry No: IITK/CHE/FIST/SGARG-1-REVISED**

**Enquiry Date: 11/05/2018**

**Closing Date: 01/06/2018**

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**Tender Notice**

**Sealed quotation(s) in Indian Rupees with all technical details so as to reach latest by 3:00 PM on June 1, 2018 are invited for the supply of following item**

**Real Time-PCR Machine**

**Essential components and features:**

**Specification:**

- 1) Should have latest generation Peltier-based thermal cycling system & advanced technology for thermal cycling flexibility.
- 2) Temperature range: Approximately 25 °C to 100 °C with a thermal accuracy of  $\pm 0.5$  °C or better
- 3) Ramp Rate of cooling and heating:  $> 3-5$  °C/ sec
- 4) Excitation by LED and detection by cooled CCD camera or CMOS or Photodiodes
- 5) Each well should receive the same amount of excitation light
- 6) Each well should receive excitation light for the same length of time
- 7) The system must offer 96-well format.
- 8) Sensitivity: Demonstrated down to 1 copy
- 9) Resolution: Should detect as little as 1.5-fold changes in target quantities in single-plex reaction
- 10) The instrument must be calibrated for FAM/SYBR Green, VIC/JOE, NED/TAMRA/Cy3, ROX/Texas Red and Cy5

- 11) The system should be capable of multiplexing six targets per well
- 12) The system must be completely open to use various chemistries and also compatible with consumables from other sources.
- 13) Should support both TaqMan and SYBR Green Chemistries.
- 14) System must offer minimum sample volume of approximately 10  $\mu$ L.
- 15) Should support both standard (40-cycles<2hours) and Fast (40-cycles<40 min) mode without change in the sample block or plastic-wares.
- 16) Minimum detection channels: 6
- 17) Excitation- Emission Range: Between 450-700 nm
- 18) Power Range: 230 Volts, 50 Hz operations/Single phase.
- 19) A branded Laptop i7 processor, 4 GB RAM (e.g. HP/Dell), Operating system: Windows 7 or 10 should be provided along with the system.
- 20) A suitable online UPS of 3 KVA power capacity with one hour of battery backup with high ampere SMF batteries should be provided.
- 21) On site demo for at least one chemistries at no extra cost
- 22) Demonstration and training at the installation site should be provided
- 23) Reagents for around 1000 reactions of SYBR green master mix, cDNA synthesis kit, RNA extraction kit, compatible 96 well plates (package of 100) and plate seal should be provided with the instrument distributed over the duration of the warranty period assuming approximately 200 reactions per year.
- 24) Free of charge training of students in equipment maintenance by the certified company engineers during the warranty period at IIT Kanpur.
- 25) The service personnel should respond within 24 hrs. and be on campus for 72 hrs. for repairs.
- 26) The real time PCR vendor should have more than 100 installations in India, preferably in national institutes and reputed CSIR/other government research laboratories.
- 27) Comprehensive Warranty (Labour & Parts): 5 Years. Recalibration of the instrument, if required, should be included in the warranty package.

### **Terms & Conditions:**

- 1) Quotations must reach undersigned by 01.06.2018 by 3.00 pm
- 2) Quotations should have a validity of minimum of 90 days.
- 3) Atleast 10 users list should be provided with satisfactory certificates.

- 4) Technical specification sheets, authorization certificate or proprietary certificate (if applicable) and Any other relevant documentation should be included with the quotation.
- 5) Quotations are required in duplicate: (1) TECHNICAL BID (2) FINANCIAL BID, in separate Sealed envelopes, both to be finally put in one single envelope with Tender Enquiry Number Mentioned clearly in all sealed envelopes.
- 6) The technical bid should include a signed copy of the compliance certificate against the tender specifications.
- 7) The tender specifications should be justified with company catalogue.
- 8) Please specify the maximum permissible educational discount, if any.
- 9) Delivery of system should be within 3-4 weeks on receipt of the final purchase order.
- 10) The downtime of service should be taken care within 48-72 hours on information, otherwise it is subjected to penalty.
- 11) The rate offered should show both F.O.B (specify city) in the country of origin and CIF (New Delhi)
- 12) Please clearly mention the tax rate (like GST etc.) and transportation charges up to IIT Kanpur, India.
- 13) After sales Service in India and warranty period should be clearly mentioned.
- 14) The Institute reserves the right of accepting and rejecting any quotation without assigning any reason.
- 15) Quotations by E-mail will not be accepted.

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Kindly mention the enquiry number on the sealed envelope carrying the quotation and send the sealed quotation(s) to the following address:

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