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No. : THSTI/NIT/23/18-19

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[NOTICE/CORRIGENDUM No. 1A](#)

**AMENDMENT TO TECHNICAL SPECIFICATIONS**

NIT NO. AND DATE : THSTI/NIT/23/18-19

Dated: 02 Jan 2019.

NAME OF INSTRUMENT : SITC of Real Time PCR Machine at THSTI, NCR Biotech Science Cluster

**REVISED SPECIFICATIONS: AS ATTACHED**

**Others terms and conditions will remain same.**

Section Officer  
THSTI

## Real Time PCR machine

### **Specifications;**

1. A high throughput system to accommodate 96 well plates, strips and tubes (0.1 or 0.2 ml)
2. Thermal Cycling System: Peltier-based system
3. The excitation source should be LED and detection should be by photodiode or CCD.
4. Should be capable of detecting 10 copies or better.
5. Sample Ramp Rate: 2.0°C or better under standard mode.
6. Peak Block Ramp rate: 4 °C or better
7. At least four emission filters to detect four of the following dyes in a single reaction tube: FAM, HEX, VIC, JOE, ROX, TAMRA, NED, Cy3, Texas-Red and Cy5 etc.
8. Should support sample runs with or without internal reference dye.
9. The system should support minimum reaction volume of 10 µL.
10. The system should have temperature range of 37°C-99.5 °C or better
11. Preferably with gradient facility to offer different temperature zones for PCR optimization
12. An open system capable of running various chemistries including TaqMan, SYBR Green etc.
13. The system should come along with software which works on the latest Windows or Mac OS for High Resolution Melting Curve Analysis, Automatic allelic discrimination by end point fluorescence or threshold cycle and gene expression analysis by relative quantity ( $\Delta\text{Ct}$ ) or normalized expression ( $\Delta\Delta\text{Ct}$ ). The vendor should have reagents for HRM Applications.
14. System should be supplied with latest, branded desktop computer/laptop or inbuilt user interface
15. System should come with 5 years comprehensive (CMC) on-site warranty.
16. Should be provided IQ, OQ, PQ & Calibration for the first year and next year onwards annually OQ/PQ and Calibration need to provided Free-of-Cost or in case if it is Chargeable quote the price for each year (up to 5 years).
17. Quoted instrument model should not be more than 7 years old.
18. Should have 5 or more installations in Government research institutions.