

**OFFICE OF THE DEAN PLANNING AND DEVELOPMENT  
NATIONAL INSTITUTE OF TECHNOLOGY: TIRUCHIRAPPALLI - 620 015**

Date: 26/12/2013

**Tender Notification No.: NITT/F.No:RES002/PLAN2013-14/CST**

**Dated: 18.12.2014**

With reference to the above tender notification and the pre-bid conference held on 26.12.2013 at 3.00 PM in the office of the Dean, planning and development, the following amendments are made. All other terms and conditions mentioned in the tender document remains same.  
**Specifications for Real Time-PCR system**

Original Tender Specification	Amended Specification
<p>Real time PCR with block of 96 x 0.2 ml tubes or plate to run typical 0.2ml tubes, strips, and plates; Gradient capacity with dynamic ramping; Detection of 2 different fluorescent reporters in the same tube; Capacity to detect FAM/Sybr Green, and VIC, HEX, TET, CAL Fluor Gold 540 etc; Maximum Ramping speed : 5 OC per sec with an average ramp rate of 3.3oC/Sec.; Multiple Peltier Cooling &amp; Heating for uniform temp control; Dedicated channel for FRET experiments; Excitation –Emission range: 450- 580nm; No internal reference dye should be required. True 2 Color Multiplexing with use of 2 different fluorophores; Multiple filtered LEDs as an excitation source with 3 filtered Photodiodes for detection; Capacity to run various chemistries using Taq Man etc. Temperature range 0– 100 OC with accuracy of ±0.2 OC and uniformity of ±0.4 OC within 10 sec of arrival at 90 OC; Sample volume should be 1-50µl; Built in data analysis modules; Capacity to perform Automatic allelic discrimination by end point fluorescence or threshold cycle; Capacity to perform Gene expression analysis by relative quantity (ΔΔCt) or normalized expression (ΔCt); End point analysis for upto 2 fluorophores; Melt curve analysis possible; Comparison of upto 5000 Ct values from different data files should be possible; Compatible for HRM applications; Licensed for Research &amp; IVD applications; Compliant with the MIQE Guidelines; Should come with computer and software, compatible with common computer operating systems.</p>	<p>Real time PCR with block of 96 x 0.2 ml tubes or plate to run typical 0.2ml tubes, strips, and plates; Gradient capacity with dynamic ramping; Detection of 2/4 different fluorescent reporters in the same tube; Capacity to detect FAM/Sybr Green, and VIC, HEX, TET, CAL Fluor Gold 540 etc; Maximum Ramp rate of more than 3.3°C/Sec.; Multiple Peltier Cooling &amp; Heating for uniform temp control; Dedicated channel for FRET experiments; Excitation –Emission range: 450- 700 nm; No internal reference dye should be required. True 2/4 Color Multiplexing with use of 2/4 different fluorophores; LEDs as an excitation source with Photodiodes/CCD camera for detection. Mostly CCD preferred for detection; Capacity to run various chemistries using Taq Man etc. Temperature range 0– 100°C with accuracy of ±0.2°C and uniformity of ±0.4°C or better; Sample volume should be 5 - 50µl; Built in data analysis RT software; Capacity to perform Automatic allelic discrimination by end point fluorescence or threshold cycle; Capacity to perform Gene expression analysis by relative quantity (ΔCt) or normalized expression (ΔΔCt); End point analysis for upto 2/4 fluorophores; Melt curve analysis capability; Comparison of upto 5000 Ct values from different data files should be possible; Compatible for HRM applications; Licensed for Research applications; Compliant with the MIQE Guidelines; Should come with computer (optional) and software, compatible with common computer operating systems. 2 and 4 colour Multiplexing RT PCR can be quoted.</p>

*M. Premalatha*

**Dr.M.Premalatha  
Purchase Initiator**