



## UNIVERSITY OF KERALA

Kariavattom Campus, Thiruvananthapuram, Kerala, India - 695 581

**Co-Ordinator, PURSE Programme**

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09/05/PURSE/2015

06.03.2015

### Quotation Notice

Sealed competitive quotations are invited from manufacturers/authorized distributors/Indian Agents for the immediate supply of Real Time PCR for the use in the PURSE Central Facility, University of Kerala, Kariavattom

#### **Specifications for Real Time PCR (Thermal Cycler)**

1. Real time PCR with block of 96 x 0.2 ml tubes or plate to run typical 0.2ml tubes, strips, and plates. .
2. Peltier Cooling & Heating for uniform temp control
3. The base thermal cycler should be able to be used for standard PCR
4. Should be upgradable to 384 well platform
5. High speed gradient PCR system, Should be able to test 12 different temperatures in gradient function
6. Should be capable of Detecting FAM, Sybr Green, VIC, JOE, HEX, Yakima Yellow. Maximum Ramping speed : 5 °C per sec or more
7. Internal reference dye should be avoided. True 5 Color Multiplexing with use of 5 different fluorophores without the need of addition of any internal reference dye,
8. Fluorescence detection via LED excitation source with Photodiode detector
9. Six excitation and Six emission channels Each filter should correspond to one dye that ensures smooth differentiation of even dyes having high degree of spectral overlap.
10. Open system capable of running various chemistries so that Different chemistries using TaqMan, Molecular Beacon, SYBR green etc all can be performed.
11. Temperature range 0– 100 °C with accuracy of  $\pm 0.2$  °C and uniformity of  $\pm 0.4$  °C within 10 sec of arrival at 90 °C
12. Automatic allelic discrimination by end point fluorescence or threshold cycle.
13. End point analysis for upto 5 fluorophores or more
14. Should have mode for Melt curve analysis
15. The amplification traces should be viewed on the LCD screen in real time while a run is in progress with touch screen facility.
16. The system should be able to perform gene expression, PLUS/MINUS assay, SNP, allelic discrimination and dissociation curve analysis etc.
17. System should be compliant with the MIQE Guidelines

18. System should provide the option of software which is RDML compliant and compatible with all computer operating systems including Microsoft windows, Mac and Linux.
19. System should come with additional software which is capable to import and analyze data from any real time PCR platform.
20. Should come with suitable computer and 2 KVA Online UPS.

### **Terms and Conditions**

**PRICE:** Prices in CIP Trivandrum Airport

**PAYMENT:** 100% against delivery and successful installation subject to submission of performance guarantee.

**WARRANTY:** Minimum 5 years with annual maintenance contract (free of additional charge)

**INSTALLATION/DEMONSTRATION /APPLICATION TRAINING AT SITE:** Free of cost by the supplier.

**USER LIST:** The supplier should provide a list of current users (with contact no, Email address etc) for the quoted item in India.

**SERVICE FACILITY:** Supplier should mention their details of service setup and Manpower in Kerala who are responsible for after sales support. Response time should be within 24 hours  
The rate should be inclusive of all taxes, accessories to instrument like online UPS, PC, plates, and extended AMC to make total 5 years of maintenance service, transportation, installation and demonstration to users. Nothing extra will be paid in addition to the quoted rate.

The model number, make, and a printed literature of the product shall be submitted positively.

**DELIVERY TIME:** Proposed delivery schedule should be mentioned clearly.

Guarantee certificate, users manuals etc. are to be handed over to the user after successful commissioning of the system.

**SPARES AVAILABILITY:** The supply of spares is to be guaranteed for 10 years from the date of last manufacture.

The quotations complete in all respect should reach the “Co-Ordinator PURSE, University of Kerala, Kariavattom, Thiruvananthapuram – 695 581 before 3.30 PM on 21.03.2015.

Yours faithfully,

**Co-Ordinator PURSE  
University of Kerala**