



PERIYAR UNIVERSITY

SALEM- 636011, TAMIL NADU
NAAC A Grade - State University - NIRF Rank 90

TENDER NOTICE

No. PU/R/PL&D3/Biotech/5125-IV/2018

Date: 16.07.2018

Sealed tenders (Two cover system) will be received by the Registrar, Periyar University, Periyar Palkalai Nagar, Salem – 11 upto 10.30 A.M. on **07.08.2018** for the **Purchase of Real Time PCR System for DST-“FIST Program” Project in the Department of Biotechnology** from reputed firms. The intended tenderers should show their credentials and get concurrence of the Registrar before purchase of tender schedules. Tender schedules can be had from the undersigned from **20.07.2018 to 06.08.2018** between 10.00 A.M and 3.00 P.M on payment of demand draft drawn in any nationalized bank in favour of the Registrar, Periyar University, payable at Salem as detailed below. Tender should reach this office on or before 10.30 A.M. on **07.08.2018**. Specifications are Overleaf.

Tenders to be opened on **07.08.2018** at 11.30 A.M in our office.

The EMD in the form of demand draft should be drawn in any Nationalised bank in favour of the Registrar, Periyar University, payable at Salem.

Sl.No	Description	Qty.	Cost of tender documents	EMD	Time of completion of supply
1.	Real Time PCR System (Specifications are Overleaf)	1 No.	Rs. 6,720/- (Cost – Rs.6000/- GST- Rs. 720/-)	EMD at 1% of the Instrument Value	15 days

REGISTRAR

RT-PCR**Technical Specification**

1. A dedicated multicolor Real Time PCR system (excitation and emission) with latest generation Peltier-based 96-well plate/tube in-built PCR to support:
 - a. Gene-Expression analysis,
 - b. Pathogen Quantitation,
 - c. SNP Genotyping,
 - d. Plus/Minus Assays that utilize internal positive control,
 - e. Dissociation Curve Analysis,
 - f. Multiplexing and complete End-Point Assays.
2. Bright White LED for better excitation
3. Six decoupled filters with minimum 4plex multiplexing (Four targets in one tube).
4. System should be capable of running 2 to 3 individual programming in the same run with different set of temperature.
5. Max block ramp rate should be 6.5°C/sec with temp uniformity of 0.4°C and sample ramp rate of 3.66°C/sec.
6. CMOS Camera for detection. The data collection and instrument control software should provide multicomponenting algorithm for deconvolution of multiple dyes, enabling addition of future dyes without changing the hardware.
7. The built-in emission filters to readily support broader range of fluorophores with a greater sensitivity for longer wavelength (red) dyes. The system should be readily configured and optimized for use of any of the following dyes or a combination thereof at any time, without any change in the hardware: FAM™/SYBR® Green, VIC®/JOET™/HEX/TET, ABY®/NED™/ TAMRATM/Cy®3, JUN®, ROXT™/Texas Red®.
8. Total reaction volume of minimum 10 µL to 30 µL, although lower would be preferred to economize the reagent consumption.
9. System should run in FAST and standard mode.
10. Vendor should provide option to remote monitor runs, easily access to your data with the help of cloud.
11. Application software like dedicated primer and probe design software as well as relative quantitation analysis software to analyze multiple 96-well-plates of data simultaneously must be included as standard supply in the quoted price.
12. A complete line of reagents including TaqMan universal PCR Master Mixes and SYBR® Green I Master Mixes, and disposables including tubes and 96-well plates for use with the system must be quoted. The manufacturer should quote a choice of ready-made assay kits or ready-to-make assay kits for Gene Expression as well as SNP analysis.

13. The installation specifications must demonstrate the ability of the system to distinguish between samples containing 5,000 and 10,000 template copies with a confidence level of 99.7% using an RNascP instrument verification plate or alike. The system must be calibrated optically for the pure dyes during installation at sight.
14. Computer: A business line computer (either notebook or tower) should be provided with the system.
15. Vendor should also supply complete range of TayMan readymade and custom design assays.
16. The supplier should be able to supply all the reagents and consumables for the operation of the system.