

NATIONAL CENTRE FOR AQUATIC ANIMAL HEALTH
COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY
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Quotation Notice

Competitive quotations are invited for the supply of the following items for the use in this Centre. Sealed covers containing separate quotations super scribed "**Real Time PCR System**" due on **19-9-2009** should reach the under signed on or before **19-9-2009**. Quotations should be sent only by post or courier.

Real Time PCR system Specifications

1. The instrument should be a validated platform to perform Real-Time PCR analysis using in-built peltier based PCR machine for research applications. The supplied should enclose documentary support of the same
2. The instrument must provide specialized application specific software for data collection and analysis of fluorescence data for the application like absolute quantitation, relative quantitation (especially capability to create an RQ study with data from unlimited number of 96 well plates with out exporting the data to MS Excel), allelic desrimination/ single nucleotide polymorphism detection, plus/minus assay that utilize internal positive controls and Melt curve analysis
3. The system must have a LED excitation lamp with wavelength range from ~450 nm to 700 nm. The excitation source should have the capability to excite broad range of fluorophores. The excitation system may have emission dependent or emission independent band filter system.
4. The fluorescence detection should be performed using self calibrated photomultiplier tube/ diode. The optical system must utilize multiple filter sets to enable multiple wavelength detection.
5. The instrument software should utilize a multi componenting algorithm to provide precise de-convolution of multiple dye (multiplexing) signals with minimal cross talk – soft ware should include an experimental design wizard and reaction set up information including pipetting protocols.
6. The system should provide minimum five emission broadband pass filters. The system should be flexible enough to accept future dyes without any hardware changes with respect to filters and detectors.
7. The instrument should provide an upgrade path to perform fast thermal cycling when needed. The system should use universal thermal cycling conditions. The system should be open to chemicals and reagents from other vendors also. The system should be compatible with various detection chemistries
8. The system should have mechanism to avoid reaction mixture evaporation and temperature variation between tubes

9. The instrument must be supplied with a dedicated system compatible desktop running the windows XP operating system for data analysis.
10. The instrument must support reaction chemistries, the fluorogenic 5' nuclease assay using TaqMan probes, SYBR green double stranded DNA binding dye chemistry, scorpion and plexor chemistry
11. The instrument must be provided with a warranty for a period of two year from the date of installation. A factory trained service engineer must be available in station to perform installation and all repairs.
12. The vendor must provide comprehensive assay design and development guidelines for real time quantitative PCR and SNP genotyping assays
13. The vendor must be able to offer telephonic support and Field application/ service support to help solve chemistry and instrumentation problems encountered with real-time quantitative PCR and SNP genotyping. Documentary evidence towards these credentials must be enclosed.
14. Attending service within 48 hours from instrument breakdown
15. Pre-installation requisites regarding electrical power, environmental conditions, layout diagram of the equipment along with the list of users of the quoted model in India and abroad are to be provided along with the technical bid
16. The participating/ bidding firms shall provide an undertaking through their principals for the uninterrupted supply of accessories/ spare parts for the quoted model and to provide after sales service by qualified and trained expert engineers of the firms for a minimum period of 10 years excluding the warranty period
17. The participating/ bidding firms shall arrange demonstration of the quoted model and/ or collect samples from the Laboratory for analysis by the quoted model and submit the results to the laboratory for analysis by the quoted model and submit the results to the Laboratory before the technical evaluation as per the time frame fixed by the Laboratory
18. Manual for operation and maintenance of the instrument to be supplied in hard copy and soft copy
19. The vendor shall be ISO 9001 certified or equivalent firm
20. The vendor shall clearly specify terms and conditions of annual maintenance contract (AMC).

Terms and conditions

1. The Centre has the right to reject any quotation without assigning any reason.
2. The rates quoted should be with out sale tax other charges if any should be shown separately.
3. The rate quoted should be valid at least for a period of two months and no revision in rates will be considered.
4. Delivery should be made at the Centre in the address given above without any extra cost.
5. No advance will be paid for effective supply and payment will be made only satisfactory supply of the items.
6. The items should be supplied within 15 days from the date of supply order.
7. The item supplied should be of standard quality and items damaged within a period of 12 months should be replaced/repared to the satisfaction of the Centre at the supplier's own cost.
8. KGST and CST numbers and Income Tax PAN, if any, should be indicated.
9. Kerala State Store Purchase Rules as amended from time to time will be applicable to all quotations.

I.S. Bright Singh
(Principal Investigator)