



Indian Institute of Technology, Kanpur

Department of Chemical Engineering

Dr.Sri Sivakumar

Assistant Professor

Tel.: +91 512 2597697; Fax: +91 512 2590104

E-mail: srisiva@iitk.ac.in

Request for submission of quotation for " REAL TIME Polymerase Chain Reaction "

Sealed quotations are invited from dealers/distributors on or before 9th September 2013 with all technical specifications for the supply of items;

Enquiry No: 17/CESE/SS

Opening date: 30th August 2013

Closing Date: 09th September 2013

The quote should be submitted to the Department of Chemical Engineering, IIT Kanpur.

The following specifications are as under:

SPECIFICATIONS FOR REAL TIME PCR

- An automated system for both real-time PCR and post-PCR (end-point) analysis using in-built Peltier based PCR machine. Fast Real Time PCR with run time of less than 45 minutes. The machine should provide five color multiplexing. The system must be open for all chemistries including SYBR Green, Taqman, Molecular Beacons and Scorpion Probes.
- System should support applications including absolute quantitation, simultaneous analysis data for relative quantitation of 10 plates of 96 wells each, multiplex-PCR, allelic discrimination (SNP), dissociation curve analysis as well as pathogen detection and plus/minus assay. The system must provide advanced single source detection, the system must be able to detect wavelength from 350 -750nm range.

- The system must be able of custom filter alignment(e.g. mismatch excitation and emission filters: FAM excitation / ROX emission)
- The system must offer user customizable filter wheel design, to accommodate custom excitation and emission filter pairs. The standard filter set should include FAM/SYBR Green I/ Eva Green, HEX/JOE/VIC, ROX/Texas Red, Cy3 and Cy5.
- The system must offer 10 logs of linear magnitude range. The software must allow analysis of multiple gene expression plates simultaneously.
- The detection source should offer large dynamic range of detection and a low signal to noise ratio, allowing low to high abundance targets to be accurately quantified. The system must have an inbuilt computer to save the data in event of external computer crash
- The system must offer 96-well format with 0.2 ml. Should be supported by 96 well plates and strips from the same manufacturer. The system must be open to accept consumables from other vendors also.
- The Instrument must be a true five color multiplexing, fast Instrument. Consumables and Plastic ware should be supplied for at least 400 reactions.
- The system must offer minimum sample volume of 10 μ L. Use of Internal passive reference should be optional.

Terms & Conditions of the quotations are as under:

1. The quotations should be submitted in the properly sealed envelope, addressed to the undersigned. The enquiry no. and date should invariably be quoted on the top of the envelope.
2. The time allowed for carrying out the above note work is 10 days.
3. The rate quoted should be inclusive of sales tax and other taxes including freight charges (if any).
4. Quotations should have a validity of a minimum of 90 days.
5. The Institute reserves the right of accepting or rejecting any quotations without assigning any reason thereof.

Kindly send your quotation before respected date in the following address:

Sri Sivakumar

Assistant Professor

Department of Chemical Engineering

Indian Institute of Technology Kanpur

Kanpur, Uttar Pradesh, PIN 208 016

India

Tel.: +91 512 2597697; Fax: +91 512 2590104