

Indian Institute of Technology - Kanpur
Department of Biological Sciences & Bioengineering

Enquiry Number: BSBE/BA/WT-DBT/NC2, dated 26/07/2013 and **Revised 31/07/2013**

Sub.: Inquiry for the supply of Real-Time PCR Facility.

Opening date: July 26th 2013 at 10:00 AM

Closing date: August 6th 2013 at 5:00 PM (**extended to August 9th at 5:00 pm**)

Sealed quotes (technical bid and price bid separately sealed) are invited for the Real-time PCR Facility as per the specifications given in the next page.

Your quote should mention/include the following:

- Maximum discount if any should be offered and mentioned.
- Quoted price should include the cost for installation, warranty and required accessories (see below).
- Validity of the quote at least for 90 days.
- FOB (indicating port of shipment) and CIF (New Delhi) values should be quoted separately if import is required. For quotes in INR, the price quote should be for delivery at Kanpur.
- The quote should cover insurance for transport up to Kanpur.
- Indian agency commission if applicable (should be certified by the principal if no agency commission is applicable) in case of import.
- Authorization certificate from the principal if you are a local agent.
- Terms and conditions for the payment, including the banker's name of the principal and the account number, if any, for electronic transfer.
- Include proprietary item certificate if applicable.
- Technical literature to support your product (in technical bid).
- Users' list with contact address.

Note: Offers should quote for all five components (item no. 1 to item no. 5) of this facility (see next page for details). Quotes that do not offer all four components will be disqualified.

The quote should reach the undersigned on or before **5 pm on August 9th, 2013**. The envelope should be marked as "Real-time PCR facility".

Dr. Bushra Ateeq
Department of Biological Sciences & Bioengineering
Indian Institute of Technology,
Kanpur 208016 (UP)

Email: bushra@iitk.ac.in

Real-Time PCR facility

Essential components and features:

Item No. 1: Real Time-PCR Machine - (Quantity 1)

Specification:

Should have latest generation Peltier-based thermal cycling system & advanced technology for thermal cycling flexibility.

The system must offer 96-well format with 0.2 ml. Should be supported by 96 well plates and strips. The system must be open to accept consumables from other vendors also.

Should support both TaqMan and SYBR Green Chemistries.

System must offer minimum sample volume of 10 µL

Should have feature for Gene Expression analysis using relative standard curve and comparative CT for relative quantitation and standard curve for absolute quantitation, MicroRNA Expression and allelic Discrimination (SNP genotyping).

Should support both standard (40-cycles<2hours) and Fast (40-cycles<40 min) mode without change in the sample block or plastic-wares.

Four color detection for flexible applications.

Excitation by single high powered blue LED and fluorescence emission through filters on a photodiode with multicomponenting algorithm.

Should have emission filters for use with FAM/SYBR Green I, VIC/ JOE, NED, TAMRA and ROX dyes.

Power Range: 230 Volts, 50 Hz operations/Single phase.

Item No. 2: Thermal Cycler (Quantity 1)

Specification: Must have latest generation Peltier-based thermal cycling system.

Should offer at least 6 independent temperature blocks.

Should have ability to run Fast or standard PCR methods.

Must support PCR volume 10–80 µl.

Should have touch screen for setting and viewing of temperature profiles.

Should have option of saving the method to the instrument or to a USB.

Item No. 3: Supporting Computer System (Quantity 1)

Specification: Should have 3rd gen Intel Core i5-3330S processor, 4GB DDR3 SDRAM, 1600MHz-1X4GB; 3.5" 1TB 7200RPM SATA Hard Drive, 1X1TB;

18.5" Widescreen Flat Panel Monitor.

Pre-Installed with OS, and software to analyze Quantitative PCR data analysis and Primer design.

Power Management: Screen Blanking, Hard Disk and System Idle Mode in Power On, Set up Password,

Power supply SMPS Surge protected.

Item No. 4: Power back-up UPS (Quantity 1)

Specification: A suitable online UPS of 3 KVA power capacity with one hour of battery backup should be provided that must support all three instruments (Real Time-PCR Machine, Thermal Cycler and Computer).

Item No. 5: Ultra-violet Transilluminator for post-PCR analysis (Quantity 1)

Specification: Dual wavelength UV Transilluminators with 254 and 365 nm UV for illumination for DNA visualization and a UV shield for user protection.

Item No. 6: Equipment table assembly (Quantity 1)

Specification: Sturdy laboratory table with heavy iron frame and granite table top. Measurements: 12.5 ft length, 2 ft width and 2 ft 11 inches height.

Warranty:

For items No 1 and 2: Minimum 5 years.

For items No. 3, 4 and 5: Minimum 1 year