

CENTRAL INSTITUTE FOR COTTON RESEARCH

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{Location: Near Indian Oil Depot, Panjari, Wardha Road, Nagpur – 441 108}

F. No.(47)St/NFBSFARA/Real Time PCR /GB/2011-12

Date: 24.12.2011

Sub: Quotation for the Purchase of **Real Time PCR** – reg.

Sir,

Sealed quotations are invited by the Director, Central Institute for Cotton Research for the purchase of following **Real Time PCR** on the terms and conditions prescribed below:

SN	Specification	Rate (In Rs.)	Qty.	Amount (In Rs.)
1.	Real Time PCR System (The detailed specification is enclosed)	@ Rs.	ONE	Rs.

Terms & Conditions:

1. The price should be inclusive of all taxes / VAT etc.
2. **EMD amount 3% of the quoted / estimated value** of the above item/system should be enclosed with quotation in the form of D.D. in favour of Director, CICR, Nagpur.
3. Sealed quotation along with the literature and pamphlets should reach this office on or before **18.01.2012**.
4. As the equipment/Instrument is urgently needed for our research work, the firms who will be able to make immediate supply F.O.R., Central Institute for Cotton Research, Panjari Farm, Wardha Road, Near Khapri, Nagpur should only quote the desired rates.
5. Envelops may please be super-scribed with the word "**Quotation for Real Time PCR**".
6. Instruments indigenous or imported will be purchased from only those parties, who can ensure and undertake to provide the satisfactory after-sales-service within the country. The supplier should also ensure to offer a complete detailed package on back up support, prompt commissioning, after- sales-service including workshop backup, timely supply of spares, timely repair of equipments, proper training to Scientists/ Technicians on use.
7. Guarantee/Warranty period offered and after sales service available should be clearly mentioned.
8. The quotation should be quoted by solely local authorized stockiest Service distributor against this equipment, who has necessary service backup facility.
9. Authorized Certificate should be enclosed with the quotation for this equipment.
10. Those who are unable to provide this local service facility will not be entertained.
11. The make, quality, and specifications may be stated in detail/must be as per details given by this office. In case supply is not made within a fixed period the office reserves the right to cancel the supply order.
12. The payment will be made only after completing delivery according to the specifications, quality, and quantity given in the quotation/purchase order.
13. Other terms and conditions of supply if any may also be stated.
14. Equipment/Instrument will be accepted only after giving satisfactory demonstrations.
15. The Director, CICR, reserves the right to accept or reject one or all quotations without assigning any reason thereof.

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16. The quotations, without the desired specification received after the due date are liable to be rejected.

Encl.: As Above (Specification)

Administrative Officer

Specification for Real Time PCR

Features	Real-Time PCR
Real time PCR system	Should be a fast gradient real time PCR system for Nucleic acid and protein analysis
Thermal Block	Should have Peltier-driven thermal block with resistive & convective heat exchange with a capacity of 96-well plate, 0.2 ml 8-strip tubes or individual tubes.
Temperature and Ramp rate	The system should have an automatic software controlled temperature Ramp Rate up to 2.5°C/second with a Temperature Range: 25-99°C & hot top heated lid.
Excitation source	The light source should be tungsten-halogen with five excitation and five emissions filters.
Scanning module	The system should have individual well scanning using fiber-optics for best uniformity and reproducibility.
Wavelength range	350 – 700 nm
Sensitivity	Detect a single copy of gene
Reaction volumes	reaction volumes 10ul – 100ul
Time (40 cycle)	Fast Chemistry: less than one hour.
Dynamic range	The system should have a dynamic range of 10 orders of magnitude
Detection system	The system should have a Photomultiplier Tube (PMT) based detection system.
Thermal Cycler Mechanism	Maximum Uniformity with even mechanism
Uniformity	Should have uniform temperature distribution. Should maintain iso-optical detection in all wells for maximum uniformity. Should have minimum equilibration time.
Chemistries	Should come with standard chemistries for gene expression, quantification, miRNA, mutation scanning, genotyping, methylation studies etc. and also be an open system for other kit suppliers.
	Absolute quantitation, Relative quantitation, Microarray Data Analysis, allelic discrimination (SNP), pathogen detection and Chromatin Immuno precipitation studies. Tm calling melting curve based analysis of known & unknown genetic variation & end point genotyping.
	The supplier should be able to provide optimized probes/assays & licensed Real time PCR 5prime/primetime probes for real time PCR assays.
Software	Unlimited user Software license with maximum feature should come absolutely free of cost for the life of the machine. DNA concentration measurement software as standard.
	The system Software should link up to six instruments with one computer.
License	The system should be licensed to perform Real Time PCR.
Computer	System should be supplied with Desktop computer Core i5with8.0GB RAM, 1.0 TB HDD inch LED with wireless key board & mouse
Light Source Lifespan	Life time warranty on light source.
Warranty	Two years Warranty on system & all parts