



**DEPARTMENT OF BIOTECHNOLOGY**  
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MUKESH DOBLE  
Professor and Head

Date: 02.12.2013

**Ref: BT/RAMS/2013/68/SPL**

**Dt. 02.12.13**

**Due Dt.13.12.13**

1. Quotations are invited in duplicate for the various items shown below/overleaf/ enclosed list.
2. The quotations duly sealed and super scribed on the envelope with the reference No. and due date, should be addressed to the undersigned so as to reach him on or before the due date stipulated above.
3. The quotations should be valid for sixty days from the due date and the period of delivery required should also be clearly indicated.
4. If the item is under DGS & D Rate Contract, Rate Contract Number and the price must be mentioned. It may also please be indicated whether the supply can be made direct to us at the rate contract price. If so, please send copy of the R.C. (Please note that we are not Direct Demanding Officers).
5. Relevant literature pertaining to the items quoted with full specifications (and drawing, if any) should be sent along with the Quotations, wherever applicable. Samples if called for should be submitted free of charges and collected back at the supplier's expenses.
6. **Local Firms:** Quotations should be for free delivery to this Institute. If quotations are for Ex-Godown, delivery charges should be indicated separately.
7. **Firms outside Chennai:** Quotations should be for F.O.R Chennai. If F.O.R. Consigner stationer freight charges by passenger train/lorry transport must be indicated. If Ex-Godown, Packing, forwarding and freight charges must be indicated.
8. The rates of Sales/General Taxes and the percentage of such other taxes legally leviable and intended to be claimed should be distinctly shown along with the price quoted. Where this is not done, no claim for Sales/General Taxes will be admitted at any stage and on any ground whatsoever. **The taxes leviable should take into consideration that we are entitled to have concessional sales tax applicable to non-government educational institutions run with no profit motive for which a Concession. Sales tax certificates will be issued at the time of final settlement of the bill.**
9. Goods should be supplied carriage paid and insured.
10. Goods shall not be supplied without an official supply order.
11. **Payment:** Every attempt will be made to make payment within 30 days from the date of receipt of bill/acceptance of goods, whichever is later.

## **REAL TIME PCR SPECIFICATION**

1. PCR System with a **5 Dye Detection System**.
2. Should have 10 days spectrally calibrated readily, which includes FAM/SYBR Green I, VIC/JOE, NED, TAMRA, Cy3, Texas Red, and Cy5.
3. Any future dyes should be added without any hardware change in the future.
4. Future upgradeability to fast real time PCR Wherein can work with a sample of up to 5 microliter.
5. Five excitation and five emissions filters CCD Camera for detection.
6. The data collection and instrument control software should provide multicomponenting, algorithm for deconvulsion of multiple dyes, enabling addition of future dyes without changing the hardware.
7. System should be delivered with data collection, absolute quantitation and relative quantitation software.
8. Relative quantitation software can perform the simultaneous analysis and visualization of upto ten 96 well plate data.
9. Internal passive reference (IPR) for better data analysis.
10. Primer express software, which is capable of designing the primers and probes at universal thermal cycling conditions essential for multiplex reactions.

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**Head of the Department**