



National Center for Biological Sciences  
Tata Institute of Fundamental Research

GKVK, Bellary Road, Bangalore 560 065. India

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Ref: NCB/IC17-57/161935

ENQUIRY

August 01, 2017

Dear Sirs,

Please let us have your Quotation for the following :

S.No.	Item Code	Item Description	Qty
1	FCQBE000100	Real-Time PCR Detection System with accessories	2.00

Please also indicate specifically the following:

1. The bids / quotation addressed to "THE HEAD – PURCHASE" with Tender / Enquiry Ref No. and Item description should reach us before submission date and time. The bids/quotation are liable to be rejected, if not addressed to "THE HEAD – PURCHASE".

2. **EXIM CODE - 8 digit Customs Tariff Number – HSN (Harmonised System Nomenclature)**

3. **Payment Terms: 90% on acceptance and installation ; balance 10% against receipt of Performance Bank Guarantee for 10% order value with six months claim period.**

**The Performance Bank guarantee should be valid for defect liability period/Warranty period.**

4. The Quotations may be submitted in INR/USD/EURO/GBP/JPY/SGD or any other tradable currency in India.

5. Country of origin

6. Place of shipment

7. Name, address, telephone number and fax numbers of your bankers

8. Your account number and swift number with the bank (required for payment purposes if the order materializes on your firm)

9. **Please indicate freight and insurance charges separately.**

10. Please indicate the Warranty Period and Delivery Period

11. Kindly expedite sending your Quote/Proforma Invoice/Invoice by courier so as to reach us latest by 21/08/2017

**Important Note:**

12. Shipping by AIRFREIGHT ONLY – CARGO MODE

13. Port of Entry for Customs clearance is – BANGALORE

14. Please use International Freights which arrive directly into Bangalore. Ex. Lufthansa Airlines Cargo, Singapore Airlines Cargo

15. NO SHIPMENT SHOULD BE MADE THROUGH COURIER COMPANIES LIKE FEDEX, TNT, UPS,DHL ETC. SHIPMENTS SENT THROUGH FEDEX, TNT, UPS, DHL, ETC. WILL NOT BE ACCEPTED BY NCBS.

16. NCBS is exempted in paying customs duty (except advolerum duty of 5% + 2% cess and 1% Cus Sec & High Edu.CESS on CIF value).

PLEASE NOTE THAT PAYMENT WILL BE MADE THROUGH SIGHT DRAFT THROUGH BANK (CASH AGAINST DOCUMENTS). DOCUMENTS WILL BE RELEASED FROM THE BANK IMMEDIATELY ON RECEIPT OF THE INTIMATION. BANK CHARGES INSIDE INDIA SHALL BE TO NCBS ACCOUNT AND OUTSIDE INDIA SHALL BE TO YOUR ACCOUNT. ALSO DO NOT INCLUDE CHARGES TOWARDS CUSTOMS DUTY IN YOUR PRICES SINCE NCBS WILL BEAR THIS EXPENDITURE.

Yours faithfully

For and on behalf of

National Centre for Biological Sciences

  
NISHAR



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### Specifications for Real – Time PCR Detection System – Qty: 2 No's

1. Real time PCR with block of 96 x 0.2 ml tubes or plate to run typical 0.2ml tubes, strips, and plates.
2. Should be flexible system for plastic consumables and reagents.
3. The base thermal cycler should be able to be used for standard PCR.
4. Should have gradient function in real time to support optimization
5. System should be capable of doing 5 color true multiplexing
6. Six excitation and six emission channels and each filter should correspond to one dye that ensures smooth differentiation of even dyes having high degree of spectral overlap.
7. Should be capable of Detecting Cy5, FAM/SyBr Green, VIC/JOE, TAMRA/Cy3, Texas Red, Quasar705 and other commercially available universal dyes
8. Maximum Ramping speed not less than 5 °C per sec
9. Peltier Cooling & Heating for uniform temp control
10. Channel dedicated for FRET experiments is preferred
11. Excitation –Emission range: 460- 720nm
12. System should have LED as an excitation source and Photodiodes for detection.
13. Should have dynamic range of 9 orders or above.
14. Open system capable of running various chemistries, reagents and plastic ware so that different chemistries using TaqMan, Molecular Beacon, SYBR green etc all can be performed.
15. Temperature range 0– 100 °C with accuracy of  $\pm 0.2$  °C and uniformity of  $\pm 0.4$  °C within 10 sec of arrival at 90 °C
16. System should have the working volume of 10 $\mu$ l-50 $\mu$ l
17. System must be capable to detect  $\leq 10$  fmol of fluorescein or even less
18. Should have multiple scan modes with a FAST scan option for reading all wells in 3 seconds
19. Automatic allelic discrimination by end point fluorescence or threshold cycle.
20. Gene expression analysis by relative quantity ( $\Delta C_t$ ) or normalized expression ( $\Delta\Delta C_t$ ).
21. End point analysis for upto 5 fluorophores
22. Should have mode for Melt curve analysis
23. Comparison of up to 5000 Ct values from different data files should be possible
24. Software should have express load feature which allows entry of data after experiment.
25. Real time PCR should be licensed for Research applications and license copy must be provided.
26. Software for data analysis should be able to run offline on multiple computers.
27. The PCR machine should be accompanied with a Compatible PC.