



National Center for Biological Sciences

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ENQUIRY

Ref: NCB/IC18-28/180748.

August 13, 2018

Dear Sirs,

Please let us have your Quotation for the following :

S.No.	Item Description	Qty	UOM
1	Real- Time PCR Detection System	1.00	NO

(As per attached Annexure)

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. Country of origin

4. Place of shipment

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

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

7. Please indicate freight and insurance charges separately.

8. Please indicate the Warranty Period and Delivery Period

9. Kindly expedite sending your Quote/Proforma Invoice/Invoice by courier so as to reach us latest by 03/09/2018 by 5.30PM.

Important Note:

10. Shipping by AIRFREIGHT ONLY – CARGO MODE

11. Port of Entry for Customs clearance is – BANGALORE

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

13. 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.

14. NCBS is exempted in paying customs duty (except ad valorem 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

Head Purchase

Ref:NCB/F-180748/18-19(T)

Date: 13-08-2018

Specifications For “Real-Time PCR Detection System”

- Real time PCR with block of 96 x 0.2 ml tubes or plate to run typical 0.2ml tubes, strips, and plates which are universal format
- Set up your system quickly Minimize sample and reagent use up to 5-target multiplexing with sample volumes as low as 10 μ l
- Optimize reactions in a single run, thermal gradient feature
- Analyze data faster , visualize all run data at once and export only the data you need in the format you want.
- The base thermal cycler should be able to be used for standard gradient PCR
- Gradient capacity in Real-time to help in optimization of protocols.
- Detection of FIVE different fluorescent reporters in the same tube and ideally should be supported with some International publication for the number of multiplexing capability.
- Should be upgradable to 384 well platform to support high throughput
- Six or more excitation and corresponding emission channels wherein each filter should correspond to one dye that ensures smooth differentiation of even dyes having high degree of spectral overlap.
- Should be capable of Detecting Cy5, FAM/Sybr Green, VIC/JOE, TAMRA/Cy3, Texas Red, Quasar705
- Maximum Ramping speed : 5 $^{\circ}$ C per sec or more
- Should have Dynamic Ramping feature.
- Peltier Cooling & Heating for uniform temp control
- Should have Reduced-mass honeycomb sample block-fast ramping and settling produce the shortest time to target temperature
- Should have Thermal gradient (Row wise Range30-100 C, Programmable span of 1 to 24 C) available for assay optimization
- Should have one channel dedicated for FRET experiments without compensating five colour multiplexing capability
- Excitation –Emission range: 450- 730nm or more to accommodate most available number of dyes
- Set up your system quickly — easy installation and factory-calibrated optics.
- should monitor real-time traces without a computer attached using LCD touch screen (Stand Alone feature)
- easy installation and factory calibrated optics
- LED excitation source with Photodiode detector or PMT
- Open system capable of running various chemistries so that Different chemistries using TaqMan, Molecular Beacon, SYBR green etc all can be performed.
- Temperature range 0– 100 $^{\circ}$ C with accuracy of ± 0.2 $^{\circ}$ C and uniformity of ± 0.4 $^{\circ}$ C within 10 sec of arrival at 90 $^{\circ}$ C
- Minimum sample vol : 1-50 μ l to avoid consumption of reagents

- Should detect ≤ 10 fmol of fluorescein to support more accurate results
- Should have multiple scan modes with a FAST scan option for reading all wells in 3 seconds
- System should support applications including absolute quantitation, melt-curve analysis, simultaneous analysis data for relative quantitation of 10 plates of 96 wells each, multiplex-PCR, allelic discrimination (SNP), dissociation curve analysis, endpoint analysis and gene expression analysis
- Comparison of upto 5000 Ct values from different data files should be possible
- Software should have express load feature which allows entry of data after experiment.
- Should have O-ring seal to protect thermal electric modules.
- Real-time PCR should be licensed for Research applications.
- Configure the system to fit your needs — run without a computer, run up to 4 systems from 1 computer
- User friendly and with a Touch screen
- Warranty of 2 years

Shabeen