

Ref: INS/F-5144/2018-2019(N)

Date : 16/05/2018

ENQUIRY

Dear Sirs,

Please let us have your lowest Quote/Proforma Invoice indicating cost including packing ,insurance,estimated airfreight charges,handling charges,etc.CIF/CIP upto inStem Stores for the following materials.

Sl.No	Cat.No	Item Description	Make/Model	Item Qty	UOM
1		QuantStudio 5 Real-Time PCR System (96-well, 0.2 mL block) Specifications attached		1.00	μl

Remarks: The Tenders can also to be quoted in foreign currencies- USD/Euro/JPY/GBP/SGD/CAD or any other currencies approved/traded by RBI.

OTE: **inStem is a public funded research institute and is entitled to concessional rate of GST @ 5% for items applied for research purpose. The offer should be submitted after fully considering the above notification.**

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 seperately.**

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 **30/05/2018 till 5.30pm**

Important Note

10.Shipping by AIRFREIGHT ONLY-CARGO MODE

11.Port of Entry for Customs clearance is -BANGALORE

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



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Autonomous institute of the Department of Biotechnology, Government Of India



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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.

nStem is exempted in paying customs duty(except advalorem duty of 5% + 2% cess and 4% CVD 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 Institute For Stem Cell
Biology and Regenerative Medicine

A handwritten signature in black ink, appearing to read 'Namratha A'.

Namratha A

GKVK, Bellary Road, Bangalore-560065,INDIA

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INSTITUTE FOR STEM CELL BIOLOGY AND REGENERATIVE MEDICINE

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Technical Specification for RT PCR System.

1. An integrated system for both Real-Time PCR & post-PCR (end-Point) analysis using in built peltier based PCR Machine.
2. The system should provide Touch Screen feature that can store protocols for quick run starts from the instrument without the need for a computer. However, it should be possible to use computer for system control, operation, analysis, net-working of multiple system and a USB port for data export
3. **Thermal cycling condition** – Peltier based
4. **Optical System** : Detection by CCD/CMOS/Photodiode camera and excitation by LED lamp .The light source should have a median lifetime of at least 5 years life span in the instrument. Should have an System which combines 6 excitation (450–680 nm) and 6 emission (500–730 nm) filter sets to enable collection of up to 10 or more unique combinations of wavelengths during a single run for multiplexing as many as 6 targets. System should able to collect data for all filters for all wells regardless of plate setup.
5. **Sensitivity** : The system should be able to detect 1 copy of template for a single reaction
6. **Chemistry support**: The instrument should be open system capable of running various chemistries so that different chemistries using TaqMan, SYBR green etc.
7. **Data**: The instrument software provides raw fluorescent data and multicomponent (segregated by dye type) data for troubleshooting of experiment.
8. **Dyes Calibrated**: System should provide an option to use more than 10 different Dyes combinations. The system should provide addition of new dyes without any hardware change within the wavelength range. Preferably to use any calibrated dye or ROX as passive reference dye for normalization. The usage of the same can be optional.
9. **Reaction volumes** : 10-100 μ L for 96 well
10. **Ramp Rate** should be adjustable and $>5^{\circ}\text{C}$
11. **Temperature Range** : 4°C – 100°C
12. **Uniformity** : $\pm 0.25^{\circ}\text{C}$
13. **Option for having different temperature zones across the block**
14. **Uniformity** : $\pm 0.25^{\circ}\text{C}$
15. Option for having different temperature zones across the block



16. **Consumable support:** Vendor should be able to supply all the necessary consumables to perform real-time quantitative PCR and SNP genotyping, including PCR reagents designed for use with the fluorogenic 5' nuclease assay, PCR reagents designed for use with SYBR Green chemistry, fluorogenic probes, reaction plates and adhesive plate sealing covers. PCR reagents are also available with an optional passive internal reference ROX dye to minimize well-to-well variability. The supplier should also be able to design and provide the TaqMan assays for the DNA/small RNA (Custom Assays) templates of our interest
17. **Installation Specification:** Performance verification during installation must be done which demonstrates instrument's ability for quantifying different template copies with a 1.5 fold sensitivity and must with a 99.7% confidence level.
18. **Software Application :**
Absolute quantitation
Relative quantitation
High resolution Melt curve.
Allelic discrimination/SNP (Single Nucleotide Polymorphism) detection
Plus/minus assays that utilize internal positive controls
Protein thermal shift
19. **Primer & probe designing:** Software that designs probes and primers in a manner such that PCR is carried out under universal thermal cycling parameters irrespective of template DNA to eliminate the optimization of PCR condition for running 96 different samples on a single 96 well plate in a single run should be provided.
20. Dedicated software and kits for protein thermal shift studies must be provided along with the instrument.
21. **Training, service and application support:** Vendor should have a good service and application support back up along with Instruments to provide an effective application related troubleshooting and support. The Vendor should provide comprehensive Training at training centre on the operation of the instrument, Chemistry options and software

