

# Savitribai Phule Pune University

UNIVERSITY OF PUNE

परिशिष्ट 'क'

DEPARTMENT OF BIOTECHNOLOGY  
UNIVERSITY OF PUNE  
GANESHKHIND, PUNE-411007

To,

Ref. No./Biotech/18-19/425  
Date : 08/10/18

Quotations are invited for the supply of following goods/carrying out the work, so as to reach this office on or before 25/10/18

Sr. No.	Description of Material/Item/Work	Approximate Quantity	Rate Per unit	Amount (Rs.)	Remarks
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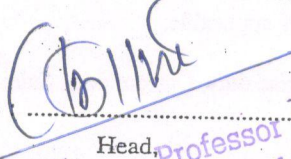
1. Real-Time PCR 1  
with accessories.

Specifications and Terms & Conditions as per attached.

1. Octroi Exemption Certificate will be issued for the goods supplied from the places outside Pune Municipal Corporation Limits.
2. Excise duty/Exemption Certificate/Sale Tax form will be issued if applicable.

Note : For other terms and conditions see overleaf.

Signature



Head,

Department of Biotechnology,  
University of Pune,  
Ganeshkhind, Pune-411007.

Signature : .....

(Supplier)

(With Stamp)

Please paste this label on the envelope containing your sealed quotation.

Enq. No. BT/200 / Date : .....

Last date of submission .....

Atn : .....

Your quotation will not be considered unless this label is used on the envelope.

To

The Head  
Deptt. of Biotechnology

[P.T.O.]

# Savitribai Phule Pune University



DEPARTMENT OF BIOTECHNOLOGY  
Ganeshkhind,  
Pune-411007 (INDIA).

Ref. No. Biotech / 18-19 / 425

Date : 08/10/18

## Specifications for Real-Time PCR

- An automated high throughput continuous detection and quantitation of nucleic acid by real-time PCR technique using in-built Peltier based thermal cycler. With a simplified workflow, intuitive software, it should offer exceptional reproducibility with minimal well-to-well variation.
- Real-time amplification and measurement of nucleic acids from purified samples using 96-well system.
- Measurement mode - Real-time measurement, on-line continuous display of readings for Fluorescence, Temperature changes and progression of amplification.
- System should be supplied with software for absolute and relative quantification, T<sub>m</sub> calling, melting curve-based genotyping and endpoint genotyping, HRM Analysis software.
- System should be capable of using Gene Scanning software, Multiple Plate Analysis software, gene expression analysis or mutation detection in monoplex or multiplex assays.
- The system should be an open platform supporting all fluorescent chemistries and numerous applications & should be open for reagents of any make.
- Compatibility to Standard 96 x 0.2 ml PCR tubes or plates or 8 well strips (0.2 ml).
- Gradient capacity in Real-time along with user programmable gradient feature. The system should be readily available with a gradient function of up to 20 °C-40 °C.
- Temperature stability  $\pm 0.2^{\circ}\text{C}$  of programmed target temperature with a programmable temperature range 37-98°C.
- Max ramp rate heating 4-5°C and average ramp rate cooling 2-3°C.
- System should be capable of multiplexing with at least 4-6 different fluorescent reporters without any passive reference dye needed. System should be pre-calibrated for at least 4-6 dyes. System should collect data for all 4-6 filters for all wells regardless of plate setup.
- The system should have an array of 8 or more high performance optics in a shuttle system or non-movable system to direct light by lenses to samples for loss-free excitation and emission scanning for best uniformity and reproducibility.
- Detection should be by CCD camera or PMT or photodiodes.
- 9-10 logs of dynamic range or higher. Sensitivity of the system should be demonstrated down to 1 copy.
- System should detect as little as 2-fold changes in target quantities in single-plex reaction.
- Machine operations should either be stand alone and through computer.
- Shall include the latest software required for data acquisition and offline analysis with multiple perpetual licences.
- Installation, testing, validation, demonstration/technical presentation should be conducted. The vendor should provide comprehensive training on the operation of the instrument, chemistry options and software. This training should be provided free of cost including samples and consumables.
- The following accessories must be supplied with the equipment:
  - a) A computer of a reputed make having following configuration: Processor-Intel Core i7 7<sup>th</sup> generation (or better), 8GB RAM, 1TB HDD, suitable graphic card with a licensed Windows 7/10 professional OS.
  - b) Reagents for 500 reactions of SYBR green master mix, compatible 96-well plates (package of 50) and plate sealers should be provided with the instrument.
  - c) Suitable on-line UPS (about 2 KVA) is required to support the instrument.
- The system should come with 5 years warranty on device system & 10 years long-term warranty of high performance optics.
- The accessories excluding consumables should be under comprehensive warranty for period of 3 year from the date of installation. The service personnel should respond within 24 hrs. and be on campus in 72 hrs. for repairs.

Thank you,  
Sincerely,

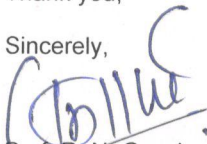
Prof. R.N. Gacche  
Head

### Terms and Conditions

1. Department of Biotechnology, Savitribai Phule Pune University, Pune 411007 herein after is referred as 'BUYER/' 'PURCHASER' and tenderer is referred as 'BIDDER/' 'SUPPLIER'.
2. The bidder should submit offers in two parts - Part A should include the technical bid in a sealed envelope marked as "Technical Bid". Part B should be submitted as financial/commercial/Price bid in a sealed envelope marked as "Financial Bid".
3. Mention our enquiry number & quotation for Real-Time PCR system on the sealed envelope.
4. Date of validity should be minimum of 90 days from the last date of submission of the quotation.
5. Quotation must be sent along with covering letter on your letterhead quoting your tax registration Nos. (GST) etc.
6. Conditional quotation will not be accepted.
7. Quotation will be rejected in case of even a single correction or overwriting. Only clear and uncorrected quotation will be accepted.
8. Pre-installation requirements for the instrument (power specifications, space required, etc) should be clearly mentioned in the technical bid.
9. Payment will be made after satisfactory installation of the systems.
10. Tax will be deducted as per prevailing rules. The supplier shall pay & bear all other liabilities, taxes & duties not specifically agreed by the purchaser in the offer.
11. Delivery period should be between 6-8 weeks.
12. Rates quoted should be inclusive of all taxes (with tax details) and warranty. GST/Other Govt. Taxes, levies are to be indicated separately. Bidder should mention GST registration number and the PAN number in the offer.
13. This instrument and accessories are being purchased for research purpose only. We are entitled to avail concessional rate of GST @5% as per Govt. Notification. The necessary GST exemption certificate will be provided.
14. Compliance report should be attached along with quotation.
15. Submit catalogue of the material with quotation if necessary.
16. Please send your quotation along with authorise dealers' / manufactures' Certificate, by only surface mail/ by hand to The Head, Department of Biotechnology, Savitribai Phule Pune University, Ganeshkhind, PUNE : 411 007.
17. Buyer will evaluate the technical and commercial acceptable offers after the scrutiny of the bids by its approved Technical and Purchase Committees. The technical and purchase committee reserves the right to select the appropriate specifications of the Real-Time PCR system to be procured.
18. The Savitribai Phule Pune University reserves the right to accept the offer in full or in parts or reject summarily or partly.
19. The successful bidder should deliver the material as per the purchase order at Department of Biotechnology, Savitribai Phule Pune University, Pune.
20. Insurance should be covered up to the Department of Biotechnology, Savitribai Phule Pune University, Pune.

Thank you,

Sincerely,



Prof. R. N. Gacche  
Head

Professor & Head  
Department of Biotechnology  
Savitribai Phule Pune University  
Pune - 411 007.