



# राष्ट्रीय पादप जीनोम अनुसंधान संस्थान

(जैव प्रौद्योगिकी विभाग, विज्ञान एवं प्रौद्योगिकी मंत्रालय, भारत सरकार का स्वायत्त अनुसंधान संस्थान)

## NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

(An Autonomous Institution of the Department of Biotechnology, Ministry of Science and Technology, Government of India)

अरुणा आसफ अली मार्ग, पो. बाक्स नं. 10531, नई दिल्ली-110067  
Aruna Asaf Ali Marg, Post Box Number 10531, New Delhi-110067

संख्या: 8/2016-17/रा.पा.जी.अनु.सं./एस एण्ड पी

दिनांक: 11/01/2017

**विषय / Subject:** मुहरबंद कोटेशन का निमंत्रण / Invitation of Sealed Quotations

Sealed Tenders are invited on behalf of Director, NIPGR from the Original Equipment Manufacturer or their authorized dealers for the purchase of **01 no. of Real Time PCR System** for the laboratory of our Institute, as per the following specifications in two bid system.

### Technical Specifications

- Real time PCR with block of 96 x 0.2 ml tubes or plate to Run typical 0.2ml tubes, strips, and plates.
- **Should have a gradient capacity with Dynamic ramping.**
- Detection of 2 different fluorescent reporters in the same tube.
- Should be capable of Detecting FAM/Sybr Green, and VIC, HEX, TET, CAL Fluor Gold 540 etc.
- Maximum Ramping speed : 5 °C per sec with an **average ramp rate of 3.3degC/Sec.**
- Should have 6 Peltier Cooling & Heating for uniform temp control
- Should have one channel dedicated for FRET experiments
- Should have a mass reduced honeycomb block to offer better average ramp rate and 10 sec of settling time.
- Excitation –Emission range: 450- 580nm
- No internal reference dye should be required. True 2 Color Multiplexing with use of 2 different flourophores without the need of addition of any internal reference dye,
- **Should have 3 filtered LEDs as an excitation source with 3 filtered Photodiodes for detection.**
- Dynamic range of 9 orders.
- 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 °C with accuracy of  $\pm 0.2$  °C and **uniformity of  $\pm 0.4$  °C within 10 sec of arrival at 90 °C**
- Sample volume should be 1-50 $\mu$ l
- Should have built in data analysis modules with advance features like well highlighting, QC flags and custom data view assist with quick analysis.
- Should be capable to perform Automatic allelic discrimination by end point fluorescence or threshold cycle.
- Should be capable to perform Gene expression analysis by relative quantity ( $\Delta$ Ct) or normalized expression ( $\Delta\Delta$ Ct).
- End point analysis for upto 2 fluorophores
- Should have mode for Melt curve analysis
- Comparison of upto 5000 Ct values from different data files should be possible
- System should be compatible for HRM applications.
- Should have the feature of Email notification with data file after run completion.
- Software should have express load feature which allows entry of data after experiment.
- Should be Licensed for Research & IVD applications.
- System should be compliant with the MIQE Guidelines
- **System should provide an additional qbase plus software license which is RDML compliant**
- Software should be compatible with all computer operating systems including Microsoft windows, Mac and Linux.
- **Software should be capable to import and analyze data from any real time PCR platform.**
- **3 years warranty**
- **10 years factory calibrated system with certificate.**

**Optional:** Should come with suitable computer and 2 KVA Online UPS

You are therefore requested to please send your offer in **two bid system** indicating the maximum discount offered, installation charges along with a copy of authorization certificate, issued by the Principals/OEM. The quotations must accompany a Demand Draft amounting to ₹ 20,000/- (Rupees Twenty Thousand only), being the EMD in the name of Director, NIPGR, New Delhi and must be sent in a **Sealed Envelope** duly super-scribed on top of envelope as “**Quotation for 01 no. of Real Time PCR System**” so as to reach to the undersigned latest by **31/1/2017 (3:00 PM)**, the same shall be opened on same day at **3.30 PM**.

धन्यवाद,

(कय एवं भण्डार अधिकारी)

**Encl:** Terms & Conditions (Annex – I)

## Annexure – I

### नियम और शर्तें:

1. Every tender shall be accompanied with the tender cost of ₹ 500/- (Rupees Five Hundred only) in the form of Demand Draft drawn in favor of “**Director, NIPGR**” payable at New Delhi in separate sealed envelope along with the tender. In case the tender cost is not submitted, the tender will not be considered.
2. Every tender shall be accompanied with the required Earnest Money Deposit in the form of Demand Draft drawn in favour of the “**Director, NIPGR**” payable at New Delhi. Any tender not accompanied by such earnest money will be rejected straight away.
3. The rates quoted in the tender shall remain valid for a period **180** days from the date of issue of Award Letter. No tenderer can withdraw/or modify his tender or revoke the same within the said period. If a tenderer on his own withdraws or revokes the tender or revises or alters or modifies the tender for any item or condition within the period mentioned in the tender notice, his earnest money deposit shall stand forfeited. Notwithstanding foregoing, the Institute reserves the right to take other actions as deemed appropriate. In case the successful tenderer after award of acceptance of work fails to perform as per work order or violates any condition of tender, the security deposit/performance security will be forfeited/encashed.
4. NIPGR does not bind itself to accept the lowest or any tender and reserves the right to reject any or all tenders without assigning any reason.
5. In two-bid system the tenders should be submitted containing (a) Technical Bid consisting of all technical details along with commercial terms and conditions and (b) Financial Bid indicating item wise price for the items mentioned in technical bid. The technical bid and financial bid should be sealed by the bidder in separate covers duly super scribed and both these covers must be put in a bigger cover which should also be sealed and duly super scribed. NIPGR will not pay any expense, whatsoever incurred by tenderer for the preparation and submission of tenders.
6. The notice inviting tender, will form part of the contract agreement to be executed by the successful tenderer with the NIPGR.
7. All the correspondence on the tender shall be addressed to the Director, NIPGR, Aruna Asaf Ali Marg, New Delhi and any communication addressed to anyone else shall not in any manner be binding upon the NIPGR, Aruna Asaf Ali Marg, New Delhi.
8. The tenderer shall submit a copy of PAN/TIN numbers allotted to them.
9. NIPGR reserves the right to change the quantities of the units while issuing the letter of award of work.
10. The successful tenderer shall be required to deposit an amount equal to 10% of the Tender value as Performance Security after adjusting the Earnest Money Deposit within 10 days from the date of issue of letter of acceptance. Performance Security may be deposited in the form of Demand Draft or Bank Guarantee from State Bank of India Or any Scheduled bank which shall be valid till completion of the warranty period of quoted / ordered items. In case of violation of any condition of Tender, the Security Deposit / BG will be forfeited / revoked.
11. The rates shall be inclusive of Transportation, loading, unloading, taxes etc., nothing extra will be paid.
12. The supplier should be responsible for any damage and site clearance and nothing extra shall be paid.

(कय एवं भण्डार अधिकारी)