



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 : 8/2018-19/रा.पा.जी.अनु.सं./एस एंड पी

दिनांक: 16/5/2018

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 Machine** for the laboratory of our Institute, as per the following specifications in two bid system.

Technical Specifications

- 1) Real time PCR with block of 96 x 0.2 ml tubes or plate with Peltier based heating and cooling for uniform temperature control. The unit should be upgradable to 384 well plate platform.
- 2) Should be complete touch screen and intuitive interface.
- 3) Gradient capacity in Real-time with operational range 30–100 °C and Programmable span 1–24 °C.
- 4) 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.
- 5) True 5 Color Multiplexing with use of 5 different fluorophores, without the need of addition of any internal reference dye.
- 6) LED excitation source with Photodiode detector.
- 7) Should be capable of Detecting Cy5, FAM/SYBR Green, VIC/JOE, TAMRA/Cy3, Texas Red, Quasar705, TET, LC RED640, LC Red705; and should detect ≤ 10 fmol of fluorescein.
- 8) Open system capable of running various chemistries so that different chemistries using TaqMan, Molecular Beacon, SYBR green etc all can be performed.
- 9) Temperature range 0–100 °C with accuracy of ± 0.2 °C and uniformity of ± 0.4 °C within 10 sec of arrival at 90 °C. Maximum Ramping speed: 5 °C per sec.
- 10) Minimum sample volume: 10 μ l.
- 11) Should have multiple scan modes with a FAST scan option for reading all wells in 3 seconds.
- 12) Automatic allelic discrimination by end point fluorescence or threshold cycle.
- 13) Gene expression analysis by relative quantity (Δ Ct) or normalized expression ($\Delta\Delta$ Ct).
- 14) Should have mode for Melt curve analysis.
- 15) End point analysis for upto 5 fluorophores.
- 16) Software should have express load feature which allows entry of data after experiment.
- 17) The software should allow multi-plate study analysis and comparison of upto 5000 Ct values from different data files.
- 18) The software should allow high-resolution graphing and data visualization tools, statistical analysis of data (e.g. t-tests and one-way ANOVA), and reference gene selection analysis tool.
- 19) Software should be compatible with Microsoft windows operating systems.
- 20) The company must provide SYBR Green mix for 2500 reactions (20 μ l reaction), one 96 well calibration plate, 96 well clear white plates for real-time reactions (50 plates), cDNA synthesis kit (500 reaction), and plastic seal covers for 96 well plate (200 pcs.).
- 21) The equipment must be a regular product with a catalogue number.
- 22) Two (2) years warranty.
- 23) Ten (10) years factory calibrated system with certificate.
- 24) 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 prices and taxes should be quoted separately in the Price Bid.** The quotations must accompany a Demand Draft amounting to ₹ 22,000/- (Rupees Twenty Two 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 Machine**" so as to reach to the undersigned latest by **05/6/2018 (3:00 PM)**, the same shall be opened on same day at **3.30 PM**.

धन्यवाद,

(क्रय एवं भंडार अधिकारी)

Encl: Terms & Conditions (Annex – I)

Annexure – I

नियम और शर्तें:

1. The tender document can be obtained from our Office on payment of ₹ 500/- (Rupees Five Hundred only) from 16/5/2018 to 04/6/2018 (01:00 P.M.). The tender document is also available on <https://eprocure.gov.in> and www.nipgr.ac.in and can be downloaded free of cost.
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 to be binding upon the NIPGR, Aruna Asaf Ali Marg, New Delhi.
8. The tenderer shall submit a copy of PAN/TIN/GST 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.
13. The bidder shall show the rate of GST and tax component in the financial bid separately. The GST shall be paid @ 5% as per GOI notification Nos. 45/2017 & 47/2017 dated 14/11/2017. The exemption certificate shall be provided at the time of placing Supply Orders.

(क्रय एवं भंडार अधिकारी)