



भा0कृ0अनु0प0-सरसों अनुसंधान निदेशालय
ICAR-DIRECTORATE OF RAPESEED MUSTARD RESEARCH
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F. No. 4-155/SP/2012/

Dated: 29-01-2016

TENDER NOTICE No.- 10

| Sr.No. | Name of Items | Estimated cost ₹ | Qty. | Earnest Money |
|--------|---------------|---------------------|------|---------------|
| 1. | PCR Machine | 4.50 Lakhs | 1 | ₹=9,000 |
| 2 | Thermal Cyler | 6.00 Lakhs | 1 | ₹=12,000 |

Note:- Tender document can be obtained from the AO of this office between 10.00 hours to 16.00 hours on any working day effective from the date of publication of the above said OTN (NIT) in the daily News papers upto 15-02-2016 on payment of non-refundable fee of Rs. 500/- for each item in cash or in the form of crossed Bank Draft drawn in favour of the Director, DRMR, Bharatpur (Raj.) 321 303. Tender form along with relevant detailed specifications and other terms & conditions related to the supply /payment etc. can be download from our website no. <http://www.drmr.res.in> with Tender fee amounting to Rs. 500/- each item. Tender document complete in all respects are to be submitted in two bids format Techno-commercial bids and Price bid separately under sealed cover. The Price of Indigenous items should be quoted for on FOR DRMR, Bharatpur & for Imported / Foreign Origin equipments should be quoted FOB strictly. The duly sealed consolidated envelope should be ensured to be put inside in the sealed Tender Box kept in Room no. 225 of the " Lab cum office building" at DRMR, Bharatpur (Raj.) or may be sent by Registered Post/Speed Post with acknowledgement due address to the Admn. Officer, DRMR, Sewar, Bharatpur (Raj.) latest by 1.00 PM on 20-02-2016 positively. The Techno commercial Bid will be opened on 20-02-2016 at 03:00 P.M. in presence of concerned bidders/their authorized representatives. Tender received **LATE will not be entertained.** The Director, DRMR, Bharatpur reserves the right to reject any or all the tenders at his discretion with out assigning any reasons whatsoever to any of the Tenderer concerned.


Admn. Officer

Specifications:-

1. Peltier based PCR system for high throughput amplification and precise control of temperature
2. PCR with single aluminum block to accommodate 96 x 0.1ml/0.2ml PCR Tube, 70 x 0.5 ml PCR tube and 96 well PCR plate (Skirted, Semi-skirted or Un-skirted plate).
3. Should be capable of testing temperatures at Denaturation, Annealing & Extension steps
4. **Should be able to test 10 - 12 different temperatures in gradient function**
5. Gradient technology should ensure identical ramp rates in both gradient and normal operation
6. Should have a Gradient temperature range from 30 – 99°C with 0.1°C minimum gradient spread
7. Lid Temperature range: 37 - 110 °C
8. Block temperature control range should be 4°C to 99°C with Temperature Accuracy: $\pm 0.2^{\circ}\text{C}$ to $\pm 0.3^{\circ}\text{C}$, Block Homogeneity: $\leq \pm 0.3^{\circ}\text{C}$ (20°C to 72°C); $\leq \pm 0.4^{\circ}\text{C}$ (90°C)
9. 'Fast, Standard and Safe' temperature control modes providing ultimate flexibility for different applications.
10. **Adjustable** user defined ramp rate to meet sensitive experimental conditions
11. Heating rate: 3 °C/s; Cooling rate: 2 °C/s
12. Flex lid technology with Thermal sample Protection (TSP) to accommodate PCR tubes with flat or domed caps
13. Should have large display with Intuitive Graphic programming
14. Should have Administrator and user login with or without PIN for enhanced security
15. **Inbuilt advance scheduling feature for users convenience will be a preference**
16. Preprogrammed protocol templates for easy selection
17. Should have Time and/or Temperature increment cycles in PCR program
18. Customized programming allows a maximum of 20 steps in a cycle and 99 cycles
19. Universal power failure protection. Auto Restart facility with user defined time interval when power fails and resumes
20. Instrument should display remaining runtime in larger font and the status of the run
21. Should have Two or more USB ports: for Protocol transfer, Self-test, USB, printer / mouse etc
22. Should have Log book function for error messages and new calibration
23. Power save Standby function
24. Cooling vents at bottom and rear allow placing other instruments in limited bench space
25. System should have provision to connect any TWO 96-well block, 64/32 dual block, and/ or flat block for in situ PCR application for high throughput.
26. Interface: USB, Ethernet, CAN in, CAN out
27. Maximum power consumption: 700 W
28. **System should have international certification.**
29. System should be quoted with suitable voltage stabilizer.
30. Company should have good number of installation and user list also attached with technical bid.

Note: The Company should provide minimum of 2 years comprehensive warranty (CMC) on the whole system. Quotation from firm must clearly indicate details of after sale service including response time at DRMR, Bharatpur and list of users (in ICAR) with updated telephone numbers and addresses and provide complete literature of equipment. The system should have Q3 certificate i.e Installation Qualification, Performance Qualification and operational Qualification on the site. The vendor should have a good service and application support backup. CE/ISO 9001 manufacturer certificate to be enclosed with the offer.

Thermal cycler

Specifications

1. The system must provide a block format with temperature gradient facility and should have a 96 well capacity for 0.2 ml PCR tubes/Plate/Strips. The thermal cycler must have 6 separate peltier blocks to provide independent temperature zones to run six different assays with varying annealing temperatures at the same time.
2. Each block to accommodate 16 wells and having the ability to set up PCR with a specific temperature differential of up to 5°C between blocks.
3. Run up to 6 separate temperatures in the same plate with user defined time to determine the optimal annealing temperatures.
4. Controlled with touch screen control panel.
5. Temperature control range should be from 4°C to 99.9°C.
6. Temperature control accuracy should be $\pm 0.25^\circ\text{C}$ (40–100°C) per well.
7. Temperature Uniformity should be $\leq 0.5^\circ\text{C}$.
8. Block Average Heating/ cooling rate: 3-4 °C/sec.
9. The system should have standard and fast run modes in a single instrument with the ability to use 0.2 ml PCR tubes or micro-well plates.
10. Choice of saving the methods up to 500-700 to the instrument or unlimited to a USB memory stick.
11. The system should support PCR volumes ranging from 10 to 90 microlitre.
12. The system can allow easy product updates via USB port.
13. Max. no. of cycles: 90-100.
14. Lid temperatures range 40-110°C and should have better mechanism to minimize sample evaporation.
15. Auto-restart option in the event of power failure up to 90-100 minutes.
16. The heating lid should have a cushion to accommodate both flat & dome capped tubes, which minimize sample evaporation.
17. Mouse or stylus free navigation capability with VGA colour touch screen allowing for easy intuitive graphical user interface programming.
18. Portability: The system must have a USB port to transfer methods from one machine to another.
19. System must be provided with compatible UPS of 2.0 KVA for at least 2 hours backup.
20. All necessary optimized reagents and plastic ware for standard and fast thermal cycling should be available.
21. The machine should be duly certified / authorized for PCR process and the vendor should produce the certificate for the same.
22. System must be provided with the following accessories:
 - i) One No AC (2 tons) of split type.
 - ii) One No. Laptop (6th generation i7 processor, 4-6 GB RAM, 1-2 TB Hard disc, Window 10, 2 GB graphics).
 - iii) One No. Multichannel Micropipette (8 channel, volume 10-20 μl).

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