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ICAR - SUGARCANE BREEDING INSTITUTE
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**NOTICE INVITING TENDER THROUGH GOVERNMENT E-MARKETING (GeM)
TOWARDS THE PURCHASE OF GRADIENT qPCR AT ICAR-SUGARCANE
BREEDING INSTITUTE, COIMBATORE, TAMIL NADU**

Online Bids under two bid systems (viz. Technical Bid & Financial bid) is invited on behalf of the Director, ICAR-Sugarcane Breeding Institute, Coimbatore - 641007 (Tamilnadu) through GeM.

The details of tender is enumerated in the following annexures. Please read the annexures attached before bidding.

Annexure-I - "Terms for Delivery of Goods"

Annexure II - "Technical specifications of "GRADIENT qPCR"

IMPORTANT NOTES: -

1. Bids received on GeM portal only will be considered. Bids in any other form sent through sealed cover/email/post/fax etc. will be rejected.
2. The bidders are required to deposit an **EARNEST MONEY DEPOSIT (EMD) of Rs.25,000 /- (Rupees twenty five thousand only)** in the form of Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee from any of the commercial Banks payable to the Director, ICAR Sugarcane Breeding Institute, Coimbatore. Scanned copy of the same shall be uploaded by Seller in the online bid and hard copy of the same will have to be submitted to the Director, ICAR-Sugarcane Breeding Institute, Coimbatore 641 007 within 5 working days of bid opening, failing which the bid will be treated as incomplete & lead to rejection of the bid without making any reference to the bidder.
3. ICAR - SBI reserves the right to accept / reject any or all the tenders in part / full without assigning any reason thereof.
4. Any change / corrigendum/ extension of opening date in respect of this tender shall be issued through websites only and no press notification will be issued in this regard. Bidders are therefore requested to regularly visit our website for updates.
5. In case, any holiday is declared by the Government on the day of opening, the tenders will be opened on the next working day at the same time. The Institute reserves the right to accept or reject any or all the tenders.
6. The bidders are required to furnish / upload copies of the following documents:
7. Signed & scanned copy of Firm's registration.
8. Signed & scanned copy of GST Registration certificate.

9. Scanned copy of EMD.

10. Technical Bid : Signed and Scanned Copy of Completely filled Technical Verification data sheet (Technical Compliance Statement) must be submitted for each quoted configuration. **SIGNED AND SCANNED COPY OF MAKE AND MODEL OF ALL SYSTEMS, SUB SYSTEMS AND ADDITIONAL ITEMS SHOULD BE MENTIONED IN THE TECHNICAL BID AND COMPLETE TECHNICAL DETAILS ARE TO BE PROVIDED IN THE FORM OF BROCHURES AND WRITE-UPS, FAILING WHICH THE TECHNICAL BID OF THE FIRM WILL BE REJECTED SUMMARILY.**

11. Financial bid : Financial bid indicating item-wise price for the items mentioned in the technical bid is to be uploaded separately.

THE BIDS WITHOUT THE ABOVE DOCUMENTS WILL BE REJECTED SUMMARILY.

12. Bidders are required to furnish the following undertaking :

We agree to supply the above goods and allied services. We confirm that the same will meet the description, specification and other technical details as required in the tender enquiry.

We conform that we agree to all other terms and conditions of your tender enquiry including the terms of delivery, period of delivery and warranty provision.

We have furnished all the information, as required in the tender enquiry and attached the relevant documents.

(In case a tenderer desires to put some additional/modified stipulations, terms and conditions etc. the same may be clearly indicated).

Handwritten signature and date: 7/11/24
ADMINISTRATIVE OFFICER
Handwritten initials and date: 7/11/24

ANNEXURE-I

i. Terms of delivery:

Delivery site : ICAR-SUGARCANE BREEDING INSTITUTE, COIMBATORE-641007 (TAMIL NADU).

Performance Security: To ensure due performance of the contract, performance security is to be furnished by the successful bidder for an amount of 3% of the value of the goods as fixed by the Competent Authority in the form of Account payee Demand draft / Fixed Deposit Receipt / Bank Guarantee in favour of the Director, ICAR-Sugarcane Breeding Institute, Coimbatore payable at Coimbatore to be furnished within 15 days from the date of issue of award of contract.

- ii. Delivery period for goods:** Within **30 days** from the date of the purchaser's signing the contract.
- iii. Erection/installation and commissioning (if required, depending on the goods ordered) :** To be completed within **10 days** of delivery of the goods at site.
- iv. Payment Terms:** Payment will be made after delivery of the item and satisfactory installation of the item.

v. Price structure:

- a) The tenderer shall quote for the complete requirement of goods and services and for the full quantity as shown against in **Annexure –II**.
- b) The rates and prices quoted shall be in Indian Rupees only.
- c) Two percent (2.0%) of the total billed amount will be deducted towards TDS on GST and the same will be remitted to the GST Department concerned.

All duties, taxes and levies payable by the supplier under the contract shall be included in the quoted price. The purchaser will not pay any such duties, taxes and levies separately.

- a) The rates and prices quoted by the supplier shall remain firm and fixed during the currency of the contract and shall not be subject to variation on any account, whatsoever, including statutory variations, if any.

vi. Receipt of goods and terms of payment:

- b) Payment term for supply of goods, including erection/ installation and commissioning (as and if applicable): -**

Immediately on receiving the goods at site, the purchaser will verify the quantities of the items supplied as specified in the delivery challan of the supplier and also check for any superficial damage etc. in the goods so supplied and issue a provisional receipt accordingly. If the goods supplied do not require erection/installation and commissioning at site, the purchaser, within three

working days of issue of the provisional receipt, will issue acceptance certificate (of the goods) to the supplier, provided the goods supplied are acceptable in terms of the contract. However, if the goods supplied also need erection/installation and commissioning, the purchaser will issue acceptance certificate within two working days, after successful erection/installation and commissioning. The supplier will then send its invoice along with the purchaser's acceptance certificate and other accompanying documents to the paying authority for payment.

The paying authority will release the full payment to the supplier as due in terms of the contract, within fifteen working days of receipt of supplier's invoice, purchaser's receipt certificate and other accompanying documents, provided the same are in order.

After release of payment to the supplier as per sub-para (a) above and after successful completion of training of the operator(s) in terms of the contract, the purchaser will immediately issue a certificate to this effect to the supplier. The supplier will thereafter send its invoice for training charges, along with the above certificate to the paying authority. The paying authority will release the payment to the supplier in terms of the contract within fifteen days of receipt of supplier's invoice provided the invoice and the accompanying documents are in order.

**PAYING AUTHORITY: THE DIRECTOR, SUGARCANE BREEDING INSTITUTE,
COIMBATORE - 641 007.**

vii. Liquidated Damage Clause:

If any time during the performance of the contract, the supplier encounters conditions hindering timely delivery of the goods, the supplier shall promptly inform the purchaser in writing the fact of the delay and the likely duration of the same. After receipt of supplier's communication, the purchaser shall decide as to whether to cancel the contract for the un-supplied portion after the existing delivery period, or to extend the delivery period suitably issuing an amendment to the contract. If the supplier fails to deliver the goods and/or perform the services within the contractual delivery period for reasons other than circumstances beyond supplier's control (which will be determined by the purchaser) and the purchaser extends the delivery period, the purchaser will also deduct from the contract price, as liquidated damages, a sum equivalent to 0.5% (half per cent) of the delivered price of the delayed goods or unperformed services for each week of delay or part thereof until actual delivery or performance. The maximum limit of such deduction will, however, be 10% (ten per cent) of the contract price of the delayed goods or services.

Further, during such delayed period of supply and/or performance, the supplier shall not be entitled to any increase in price and cost, whatsoever, on any ground. However, the purchaser shall be entitled to the benefit of any decrease in price and cost on any ground, whatsoever, of the goods and services, supplied during the period of delay.

viii. Warranty Clause: THREE YEARS

ix. Dispute Resolution Mechanism

If any dispute or difference arises between the purchaser and the supplier relating to any matter connected with the contract, the parties shall make every effort to resolve the same amicably by mutual discussions. However, if the parties fail to resolve the dispute or difference by such mutual discussion within 30 days, either the purchaser or the supplier may give notice to the other party of its intention to refer the same to arbitration. The arbitration shall commence thereafter. The arbitration shall be conducted by a sole arbitrator, who will be appointed by the Secretary, ICAR and the procedure to be followed in this respect will be as per the Indian Arbitration and Conciliation Act, 1996. The venue of the arbitration shall be the place from where the contract is issued.

You are also required to fulfill the following conditions and furnish the details as indicated in subsequent paragraphs.

1. At the time of awarding the contract, the purchaser reserves the right to increase or decrease by up to 25%, the quantity of goods and services as specified in the list of requirements, without any change in the unit price or other terms and conditions.
13. Please furnish a certified copy your latest ITCC (INCOME TAX CLEARANCE CERTIFICATE).
14. Please indicate if you are currently registered with any Govt. organization and if registered, furnish all relevant details.
15. Please state whether business dealings with you presently stand banned by any Government organization and, if so, furnishes relevant details.
16. The supplier shall at all times indemnify the purchaser, at no cost to the purchaser, against all third party claims of infringement of patent, trade mark or industrial design rights arising from the use of the goods or any part thereof, with respect to the goods quoted by the supplier in its offer.
17. The contract shall be governed by the laws of India and interpreted in accordance with such laws.
18. The **QUOTATION / OFFER SHALL REMAIN VALID FOR ACCEPTANCE FOR A PERIOD NOT LESS THAN 180 DAYS** after the specified date of opening of the offers.
19. Notwithstanding the above, the purchaser reserves the right to accept or reject any quotation or annul the tendering process and reject all quotations at any time prior to award of the contract, without assigning any reason, whatsoever, and without incurring any liability or obligation, whatsoever, to the affected tenderer or tenderers.
20. The Successful Bidder shall have to furnish the **PERFORMANCE SECURITY** in the form of Account Payee Demand Draft / Fixed Deposit Receipt / Bank Guarantee from a Commercial bank in favour of the Director, ICAR-Sugarcane Breeding Institute, Coimbatore for an amount of 3% contract value, valid up to 60(sixty) days after the date of completion of all contractual obligations by the Supplier, including the warranty obligations.

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Gradient qPCR Specifications

- Peltier based Real time PCR system with 96 well block and it should accommodate 96 well plates & 8 tube strips
- Real-Time PCR system capable of qualitative and quantitative detection of nucleic acids and discovery of genetic variations. The equipment should be with inbuilt stand-alone analysis capabilities for quantification, genotyping and expression studies and also compatible with laptop/ desktop computer. Should have multi-function LED indicator bar at front for instrument status monitoring
- The equipment should have inbuilt - interactive touch screen to run an experiment with options for adjustable angle of rotation on one-axis between 12° and 55° for better visualization & color-blind compatible data accessibility. The block lid should have motorized movement for smooth plate set up
- System should be Gradient enabled. Capacity to test eight temperatures at once to quickly determine the optimal annealing temperature
- System should have gradient programmable span of 1-24 deg with gradient operational range of 35-100 deg C
- Minimum six excitation and six emission channels. Each filter should correspond to one color that ensures smooth differentiation of dyes having high degree of spectral overlap. Excitation – Emission range: 480 - 720nm with capacity to detect 5 or more different fluorescent reporters in the same tube
- System should be pre-calibrated for detecting FAM/SYBR® Green I, VIC/Hex/Yellow/JOE/TET, ROXTM, Texas Red , CAL Fluor Red 610, TEX 615,CY5, CY 5.5, Quasar 670, Quasar 705) and capable of calibration for new dye without hardware and filter change
- Temperature range of thermal block should be 0 - 100 °C and temperature accuracy should be about ± 0.25 °C to 0.35 °C and temperature uniformity of ± 0.3 °C
- Maximum ramping speed up to 4-5 °C per sec with an average of 3-3.5 °C
- No internal reference dye should be required. True 5 Color Multiplexing with use of 5 different fluorophores without the need of addition of any internal reference dye,
- Excitation source should be 6 filtered LED's & detection with 6 filtered Photodiodes
- System should have wide dynamic range, up to 10 orders
- System should have a dedicated FRET channel for protein thermal stability studies.
- The instrument should be factory calibrated and it should not require any periodical calibration for the lifetime of the instrument
- Should have capacity to run Melt curve analysis with high resolution melting as optional feature
- The system Software should be able to generate publication ready bar charts, volcano plots, box & whisker plot & annotate with p values
- The system software should be compatible with both Windows & MAC OS
- Should include suitable desktop (≥ 24 inch) with i10 Processor, 16GB RAM, 1 + 1TB SSD, original OS and UPS for the desktop. This should be proven model/brand. Must be installed with necessary software for real time PCR plate setup, data collection, statistics and graphing results
- Should provide 2 years of warranty for the instrument

- Should include 2KVA online UPS with at least 60 minutes battery backup for smooth operation of the instrument
 - Unit should have USB, Ethernet, Wi-Fi provisions
 - Open iron rack and interlink and input cable suitable for keeping the batteries
- Accessories of 100 no's PCR plates & 100 sealing films, 1000 Reactions of SYBR green master mix and 4 boxes of 8 tube PCR strips and flat caps should be provided.

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