



ICAR - SUGARCANE BREEDING
INSTITUTE
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TAMIL NADU

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**NOTICE INVITING TENDER THROUGH GOVERNMENT e-MARKETPLACE (GeM)
FOR PURCHASE OF PARTICLE BOMBARDMENT INSTRUMENT 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 (Tamil Nadu) through GeM.

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

Annexure-I	General Terms & Conditions
Annexure-II	Technical Specification of the PARTICLE BOMBARDMENT INSTRUMENT

IMPORTANT NOTES: -

- I. 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.
- II. The bidders are required to deposit **Bid security/ Earnest Money Deposit (EMD) of Rs.80,000/- (Rupees eighty 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 - 641007, **within 5 working days of bid opening date**, failing which the bid will be treated as incomplete & lead to rejection of the bid without making any reference to the bidder. The Bid Security/EMD should be valid for 45 days beyond the bid validity.
- III. ICAR-SBI reserves the right to accept / reject any or all the tenders in part / full without assigning any reason thereof.
- IV. Any change / corrigendum/ extension of opening date in respect of this tender shall be issued through GeM/Institute Website only and no press notification will be issued in this regard.
- V. 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.
- VI. The bidders are required to furnish / upload copies of the following documents:

1. Signed & scanned copy of Firm's registration.
2. Signed & scanned copy of GST Registration certificate.
3. Signed & scanned copy of PAN Card.
4. **Technical Bid** : Signed and Scanned Copy of Completely filled Technical Verification data sheet (Technical Compliance Statement) and the Brochure also to be submitted for each quoted configuration.
5. **Financial bid** : Financial bid indicating item-wise price for the items mentioned in the technical bid is to be uploaded separately.

NOTE:

EACH OF THE ABOVE DOCUMENTS ARE TO BE UPLOADED AS A SEPARATE FILE. THE BIDS WITHOUT THE ABOVE DOCUMENTS WILL BE REJECTED SUMMARILY.

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.

We confirm that our offer will remain valid for acceptance for **180 days** after the date of opening of tenders.

ANNEXURE-I**i. Terms of delivery:**

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

- ii. **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 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. The Performance security should be **valid up to 60(sixty)** days after the date of completion of all contractual obligations by the Supplier, including the warranty obligations.
- iii. **Delivery period for goods:** Within **15 days** from the date of the purchase order
- iv. Erection/installation and commissioning (if required, depending on the goods ordered) are to be completed within **10 days** of delivery of the goods at site.
- v. **Payment Terms:** Payment will be made after delivery of the item and satisfactory installation of the item.
- vi. **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. 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.
 - d. 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.
 - e. 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.
 - f. TDS on Income Tax/GST will be deducted as per existing rules and the same will be remitted to the department concerned.
- vii. 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 without any change in the unit price or other terms and conditions.
- viii. 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.

- ix. 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.
- x. **Receipt of goods and terms of payment:**

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.

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

xi. 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.

xii. Warranty Clause: Three Years

xiii. 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.

ANNEXURE-II

TECHNICAL SPECIFICATION:

Main Equipment (Particle Bombardment)

- Biolistic transformation system which uses a burst of high-pressure helium gas to accelerate nucleic acid-coated gold or tungsten microparticles of size ranges from 0.6–1.6 μm to velocities necessary to transfect cells, tissues, or organelles.
- The system should include helium pressure regulator, solenoid, spacer rods, macro-carrier launch assembly, target shelf, at least 5 macro-carrier holders, tubing and etc. such that the delivery of particles/genes should not require any additional accessory for its functioning.
- The system should be compatible to stable and transient transfection with the experimental conditions such as *In situ*, *In vitro*, *Ex-vivo* and *In-vivo* (plants, animals and algae).
- System should be benchtop with chamber having maximum weight of 15 kg or less for easy handling and target area should be large covering at least 40 cm^2 or better with pressure range of 450-2200 PSI or better with pressure regulation through mechanically controlled rupture disks.
- Instrument should cover the target types such as animals: cell and organ culture; plants: small intact plants, plant cell culture, explants; algae, yeast, bacteria, other microbes; organelles (chloroplasts and mitochondria).
- System should include the bombardment chamber (main unit), connective tubing for attachment to vacuum source, and all components (helium regulator, solenoid valve, and connective tubing) necessary for attachment and delivery of high pressure helium.
- Vacuum should be <0.4 inches mercury/minute leakage and should work with minimum vacuum level of 26 up to 28 inches of mercury (Hg)
- Operating temperature should be in the range of 0°C to 35°C and 0-95% non-condensing humidity.
- The firm should also provide a vacuum source capable of evacuating the bombardment chamber to a minimum of 5 inches or better of mercury for operation.
- Instrument should provide an oil-filled, rotary vane vacuum pump, either single or dual stage, with a pumping speed of 90–150 liters/minute.
- Instrument should supply with optimization kit including all the **necessary accessories** of the equipment listed below-

Accessories:

1. Biolistic voltage converter (1 No)
2. Stop screens (2 No Pkg each with 500 numbers)
3. Macrocarriers (2 No Pkg each with 500 numbers)
4. Rupture Disks 900 Psi (5 No Pkg each with 100 numbers)
5. Rupture Disks 1100 Psi (5 No Pkg each with 100 numbers)
6. Macrocarrier Holders (2 No Pkg each with 5 numbers)

7. 0.6 μm Gold Microcarriers (2 x 0.25 μg)
8. 1.0 μm Gold Microcarriers (2 x 0.25 μg).
9. Laminar air flow (1 No) and Helium cylinder (1 No) -Horizontal Laminar air flow of size W4.5' x D2.5' x H2.5' or higher with cleanliness class 100, 0.3 micron and above retention with minimum noise level of <65 decibel having worktable made up of completely 304 Grade Stainless Steel with no wooden or plastic or beading on the table surface. Front door made up of glass with 5 mm minimum thickness and sliding type, UV Rays & Ethanol + resistance, UV lamp, Illumination with 4 feet LED tube light, Attachments: Digital Manometer and HEPA filter meter, 5/15 Amp power point, IP-44 electrical socket, Gas inlet and Castor wheels, Power Supply - Single phase 230V, 50 Hz, blower system - dynamically and statically balanced with negligible to low vibrations, to be supplied complete with cord and plug to work on 230Volts, 50 Hz. Single phase.
10. Instrument should supply **one desktop computer** having i7 processor, minimum of 24-inch display, 32 GB or more RAM and minimum 1 TB (SSD) storage capacity installed with latest windows operating system.
11. The instrument should supply with online 3 KVA UPS for at least one hour power back up.
 - The instrument should supply with minimum 3 years warranty period.
 - Supplier should provide details of current user list and number installations within India.

Digitally signed by
DINESH NAGPAL
Date: 30-09-2026
09:50:16

CHIEF ADMINISTRATIVE OFFICER