

DIVISION OF GENETICS

ICAR-INDIAN AGRICULTURAL RESEARCH INSTITUTE NEW DELHI-110012

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File No. ICAR/IARI/Gen/28/2022-23/

Dated: 26/12/22

E-PROCUREMENT THROUGH GEM TENDER NOTICE

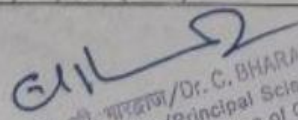
On behalf of Secretary, ICAR/Director, ICAR-IARI, PD/Head/In—Charge, Division of Genetics & SST invites online e-tenders through Gem Portal under BOQ bid system for purchase of the Climate controlled walk-in growth chambers AT THE DIVISION OF GENETICS , I.A.R.I., NEW DELHI-110012 , if necessary as per requirement in the interest of ICAR-IARI, subject to satisfactory performance of the Vendor and its willingness to continue on existing terms and conditions, as per requirements.

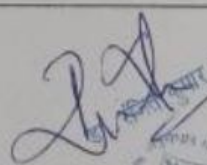
1. Tender Schedule:

Tender No.	Gem/2022/B/2907451
Date of release of tender through Gem portal	26/12/2022
Bid submission start date & time	26/12/2022 12:00PM
Last date & time for submission of bid	23/01/2023 15:00 P.M
Date & time for opening of technical bid	23/01/2023 15:30 PM
Cost of estimated bid value (in Rupees)	12500000/-
Address for Communication	Asstt.Admn.Officer, Division of Genetics, IARI, Pusa, New Delhi.12

Technical Specifications for "Climate controlled walk-in growth chambers"

	Category	Specification detail
1	Growth Chamber type	"Walk-in" type Plant growth chamber
2	Number of Tiers	1
3	Total internal area	Minimum 82 ft ²
4	Total Plant Growing Area	Minimum 56 ft ²
5	Plant growing height	≥ 7 ft
6	Door	One or more; with sealed thermal-pane observation window ≥ 1 ft ² of fitted with a movable light cover.
7	Other door facility required	with magnetic gasket providing tight seal door frame
8	Outer material	26-gauge embossed/ enamel baked galvanized steel or better
9	Inner chamber	Rust-free durable reflective/white galvanized coated steel or Stainless steel (SS 304, SUS t1.0 or better;) or better metal with drainage facility.
10	Insulation	Foamed-in-place polyurethane; CFC-free; ≥4 inch thick; Applicable to walls, door and roof. A balloon type, NSF-listed PVC gasket should be permanently foamed in place on opposite sides of tongue edges to accomplish air-tight seal between panels.
11	Temperature range and maintenance	Range 10 to 42°C or better with lights on; 4-42°C (or better) with light off; Heating through hot gas by-pass accompanied with stainless steel electric heaters or better. A temperature sensor catalogue must be provided for reference.
12	Temperature uniformity	±1°C or less
14	Humidity range required (unit needs to be fitted with a suitable humidifier)	Up to 95% or more (between 15 to 30°C or better) with ultrasonic humidifier. Water purifier and other required accessories should be provided for ultrasonic humidifier. The catalogue/brand name should be provided for ultrasonic humidifier and sensor.
15	Humidity uniformity	±10%
16	Air circulation	Forced vertical air-flow only
17	Refrigeration system	Remote Air Cooled (RAC)-type; Air-cooled condensing unit with hot gas bypass system with continuous running compressor. With solenoid/modulating valves for quiet and long-life operation and heating and cooling system adapted to temperature control range.
18	Refrigerant	CFC/HCFC-free
19	Carbon Dioxide control	CO ₂ addition and removal system with sensor up to 2000ppm. CO ₂ cylinder and regulator should be provided
20	Controller type	Microprocessor based programmable logic controller with LED/LCD/TFT display, with password protection facility, with audio- visual alarm for high and low value display set, with facility to regulate lights in day/night manner and with variable scheduling for day and night timings.
21	Data handling unit for remote access	Branded laptop with 14 inch screen, latest I9 processor, 64gb RAM, 1 TB SSD, graphics card, installed with latest versions of windows OS and MS office. Should provide communication software for remote monitoring via local network.
22	Safety feature required	Over temperature alarm and protection device; compressor over temperature detector with over pressure protection; Over current protection and Compressor delay start protection.
23	Total PAR Light Intensity required (PPFD)	Minimum 1000 μmol m ⁻² s ⁻¹ at 15-20 cm from light source.


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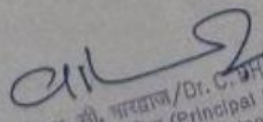
24	Type and Quality of light source	Balanced broad spectrum (covering all spectrum PAR optimized white (warm) only LED flat light (covering all light spectrum for appropriate plant growth).
25	Type and number of light fixtures (module/panel)	2 to 4 (or more) top-mounted counter balanced light fixtures inside the chamber covering a total area not less than 56 ft ² . Light fixture/module/panel lighting downwards should be configured for uniform light throughout the chamber floor.
26	Intensity regulator	Facility to regulate light intensity 10-100% applicable to all light fixtures.
27	Electrical operation	The equipment should be functional under standard Indian electricity supply condition (i.e. 220-230V (single phase) or 440V (three phase), 50 Hz and with auto-restart facility after power failure.
28	Warranty	Minimum 3 years (comprehensive).
29	Other Mandatory requirements	<ul style="list-style-type: none"> The plant growth chamber needs to be supplied with a suitable Servo voltage stabilizer (for stabilized electricity supply to equipment) Without exact mention of specification details and description for all points and exact image of the plant growth chamber model (being proposed) the presented model will be liable for disqualification in technical verification round.
30	Manufacture, Availability, Assembly and Testing	<ul style="list-style-type: none"> The mode and its specification and its available modifications/accessories must be presented in the manufacturer's (ISO certified) catalogue on day before the first date of public display of the tender call. A certificate from manufacturer certifying that the quoted/proposed model/unit has already been pre-tested with all the accessories/fitting as per the claim and required specification, needs to be provided while responding to the tender call. Mere copy pasting from the asked specification list (completely or partially) will definitely lead to disqualification in technical verification round if for all above requirements exact specification is not mentioned. Provide user list (with contact details) where same/nearly same unit has been delivered.
31	ICAR-IARI reserves the right to accept or discard if any specification other than what has been mentioned is presented and also the validity of the document presented in support of claims or exact specification/description as required.	
33	All documents/catalogue to proof the claims and descriptions needs to be furnished without which the claims will not be acceptable.	
34	Vendors must provide authorised documents of distributorship/dealership from OEM for selling the specific equipment in ICAR-IARI New Delhi.	
35	Assurance for on-site physical verification (and repair if possible) by authorized technical person within 3-4 working days in case of any future complaints about the equipment malfunction.	
36	If required, bidder should arrange a demonstration of the equipment during technical evaluation and committee will verify all the asked technical specification during demonstration.	

Technical specifications are generic in nature



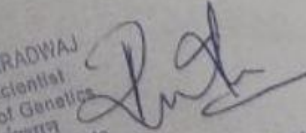
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EMD Amount	250000
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ePBG Detail

Advisory Bank	State Bank of India
ePBG Percentage(%)	3.00
Duration of ePBG required (Months).	6

(a). EMD EXEMPTION: The bidder seeking EMD exemption, must submit the valid supporting document for the relevant category as per GeM GTC with the bid. Under MSE category, only manufacturers for goods and Service Providers for Services are eligible for exemption from EMD. Traders are excluded from the purview of this Policy.

(b). EMD & Performance security should be in favour of Beneficiary, wherever it is applicable.

Beneficiary:

DIRECTOR

Indian Agricultural Research Institute, New Delhi, Department of Agricultural Research and Education (DARE), Indian Council of Agricultural Research (ICAR), Ministry of Agriculture and Farmers Welfare (Director Iari)

Splitting

Bid splitting not applied.

MII Purchase Preference

MII Purchase Preference	Yes
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MSE Purchase Preference

MSE Purchase Preference	Yes
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1. If the bidder is a Micro or Small Enterprise as per latest definitions under MSME rules, the bidder shall be exempted from the requirement of "Bidder Turnover" criteria and "Experience Criteria" subject to meeting of quality and technical specifications. If the bidder is OEM of the offered products, it would be exempted from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. In case any bidder is seeking exemption from Turnover / Experience Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer.
2. If the bidder is a Startup, the bidder shall be exempted from the requirement of "Bidder Turnover" criteria and "Experience Criteria" subject to their meeting of quality and technical specifications. If the bidder is OEM of the offered products, it would be exempted from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. In case any bidder is seeking exemption from Turnover / Experience Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer.
3. The minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be as indicated above in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the bidder is less than 3-year-old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.
4. Experience Criteria: In respect of the filter applied for experience criteria, the Bidder or its OEM (themselves or through reseller(s)) should have regularly, manufactured and supplied same or similar Category Products to any

Central / State Govt Organization / PSU / Public Listed Company for number of Financial years as indicated above in the bid document before the bid opening date. Copies of relevant contracts to be submitted along with bid in support of having supplied some quantity during each of the Financial year. In case of bunch bids, the category of primary product having highest value should meet this criterion.

5. OEM Turn Over Criteria: The minimum average annual financial turnover of the OEM of the offered product during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the OEM is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.

6. Preference to Make In India products (For bids < 200 Crore): Preference shall be given to Class 1 local supplier as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a Class 1 local supplier is denoted in the bid document. If the bidder wants to avail the Purchase preference, the bidder must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which no purchase preference shall be granted. In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor; if the OEM is a company and by a practicing cost accountant or a chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make-in -India) order 2017 dated 04.06.2020. Only Class-I and Class-II Local suppliers as per MII order dated 4.6.2020 will be eligible to bid. Non - Local suppliers as per MII order dated 04.06.2020 are not eligible to participate. However, eligible micro and small enterprises will be allowed to participate. In case Buyer has selected Purchase preference to Micro and Small Enterprises clause in the bid, the same will get precedence over this clause.

7. Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service. If L-1 is not an MSE and MSE Seller (s) has/have quoted price within L-1+ 15% (Selected by Buyer) of margin of purchase preference /price band defined in relevant policy, such Seller shall be given opportunity to match L-1 price and contract will be awarded for 25%(selected by Buyer) percentage of total QUANTITY.

8. Estimated Bid Value indicated above is being declared solely for the purpose of guidance on EMD amount and for determining the Eligibility Criteria related to Turn Over, Past Performance and Project / Past Experience etc. This has no relevance or bearing on the price to be quoted by the bidders and is also not going to have any impact on bid participation. Also this is not going to be used as a criteria in determining reasonableness of quoted prices which would be determined by the buyer based on its own assessment of reasonableness and based on competitive prices received in Bid / RA process.

9. Past Performance: The Bidder or its OEM {themselves or through re-seller(s)} should have supplied same or similar Category Products for 30% of bid quantity, in at least one of the last three Financial years before the bid opening date to any Central / State Govt Organization / PSU / Public Listed Company. Copies of relevant contracts (proving supply of cumulative order quantity in any one financial year) to be submitted along with bid in support of quantity supplied in the relevant Financial year. In case of bunch bids, the category related to primary product having highest bid value should meet this criterion.

Title1

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)

Brand Type	Unbranded
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Technical Specifications

Specification Document	View File
BOQ Detail Document	View File

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	Arvind Kumar Ahlawat	110012,IARI Pusa Campus New Delhi 110012	1	30

Buyer Added Bid Specific Terms and Conditions

1. Generic

OPTION CLAUSE: The Purchaser reserves the right to increase or decrease the quantity to be ordered up to 25 percent of bid quantity at the time of placement of contract. The purchaser also reserves the right to increase the ordered quantity by up to 25% of the contracted quantity during the currency of the contract at the contracted rates. Bidders are bound to accept the orders accordingly.

2. Scope of Supply

Scope of supply (Bid price to include all cost components) : Supply Installation Testing and Commissioning of Goods

3. Turnover

Bidder Turn Over Criteria: The minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the bidder is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.

4. Turnover

OEM Turn Over Criteria: The minimum average annual financial turnover of the OEM of the offered product during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the OEM is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria. In case of bunch bids, the OEM of CATEGORY RELATED TO primary product having highest bid value should meet this criterion.

5. Forms of EMD and PBG

Successful Bidder can submit the Performance Security in the form of Fixed Deposit Receipt also (besides PBG which is allowed as per GeM GTC). FDR should be made out or pledged in the name of Director IARI

A/C (Name of the Seller). The bank should certify on it that the deposit can be withdrawn only on the demand or with the sanction of the pledgee. For release of Security Deposit, the FDR will be released in favour of bidder by the Buyer after making endorsement on the back of the FDR duly signed and stamped along with covering letter. Successful Bidder has to upload scanned copy of the FDR document in place of PBG and has to ensure delivery of hard copy of Original FDR to the Buyer within 15 days of award of contract.

6. Warranty

Timely Servicing / rectification of defects during warranty period: After having been notified of the defects / service requirement during warranty period, Seller has to complete the required Service / Rectification within 15 days time limit. If the Seller fails to complete service / rectification with defined time limit, a penalty of 0.5% of Unit Price of the product shall be charged as penalty for each week of delay from the seller. Seller can deposit the penalty with the Buyer directly else the Buyer shall have a right to recover all such penalty amount from the Performance Security (PBG). Cumulative Penalty cannot exceed more than 10% of the total contract value after which the Buyer shall have the right to get the service / rectification done from alternate sources at the risk and cost of the Seller besides forfeiture of PBG. Seller shall be liable to re-imburse the cost of such service / rectification to the Buyer.

7. Service & Support

Availability of Service Centres: Bidder/OEM must have a Functional Service Centre in the State of each Consignee's Location in case of carry-in warranty. (Not applicable in case of goods having on-site warranty). If service center is not already there at the time of bidding, successful bidder / OEM shall have to establish one within 30 days of award of contract. Payment shall be released only after submission of documentary evidence of having Functional Service Centre.

8. Past Project Experience

Proof for Past Experience and Project Experience clause: For fulfilling the experience criteria any one of the following documents may be considered as valid proof for meeting the experience criteria: a. Contract copy along with Invoice(s) with self-certification by the bidder that service/supplies against the invoices have been executed. b. Execution certificate by client with contract value. c. Any other document in support of contract execution like Third Party Inspection release note, etc. **Proof for Past Experience and Project Experience clause:** For fulfilling the experience criteria any one of the following documents may be considered as valid proof for meeting the experience criteria: a. Contract copy along with Invoice(s) with self-certification by the bidder that service/supplies against the invoices have been executed. b. Execution certificate by client with contract value. c. Any other document in support of contract execution like Third Party Inspection release note, etc.

Disclaimer

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority in Buyer Organization, whereby Buyer organization is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any eccentricity / restriction arising in the bidding process due to these ATCs and due to modification of technical specifications and / or terms and conditions governing the bid. Any clause(s) incorporated by the Buyer regarding following shall be treated as null and void and would not be considered as part of bid:-

1. Definition of Class I and Class II suppliers in the bid not in line with the extant Order / Office Memorandum issued by DPIIT in this regard.
2. Seeking EMD submission from bidder(s), including via Additional Terms & Conditions, in contravention to exemption provided to such sellers under GeM GTC.
3. Publishing Custom / BOQ bids for items for which regular GeM categories are available without any Category item bunched with it.
4. Creating BoQ bid for single item.
5. Mentioning specific Brand or Make or Model or Manufacturer or Dealer name.
6. Mandating submission of documents in physical form as a pre-requisite to qualify bidders.
7. Floating / creation of work contracts as Custom Bids in Services.
8. Seeking sample with bid or approval of samples during bid evaluation process.

9. Mandating foreign / international certifications even in case of existence of Indian Standards without specifying equivalent Indian Certification / standards.
10. Seeking experience from specific organization / department / institute only or from foreign / export experience.
11. Creating bid for items from irrelevant categories.
12. Incorporating any clause against the MSME policy and Preference to Make in India Policy.
13. Reference of conditions published on any external site or reference to external documents/clauses.
14. Asking for any Tender fee / Bid Participation fee / Auction fee in case of Bids / Forward Auction, as the case may be.

Further, if any seller has any objection/grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller within 4 days of bid publication on GeM. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations.

This Bid is also governed by the General Terms and Conditions.

In terms of GeM GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws.

---Thank You---