

कीट विज्ञान संभाग  
Division of Entomology  
भारतीय कृषि अनुसंधान संस्थान, नई दिल्ली- 110012  
I.C.A.R.-Indian Agricultural Research Institute New Delhi-110012

मिसिल संख्या: Ento/ST /2024-25/ Minor Equipment/

दिनांक Dated : 12/02/2025

**NOTICE FOR E-PROCUREMENT THROUGH GEM**

**(GEM BID NO.GEM /2025/B/5940642)**

निदेशक, भाकृअनुप - भारतीय कृषि अनुसंधान संस्थान, नई दिल्ली द्वारा निम्नलिखित वैज्ञानिक उपकरण की आपूर्ति एवं कार्य हेतु प्रतिष्ठित निर्माताओं/अधिकृत डीलरों/आपूर्तिकर्ताओं से दो बोली प्रणाली (तकनीकी एवं वित्त बोली) के अन्तर्गत ऑन-लाइन क्यूटेशन GeM पर आमंत्रित की जाती हैं। क्यूटेशन/निविदा प्रस्तुत करने की अंतिम तिथि 05.03.2025, समय 02.00 PM बजे तक है। क्यूटेशन/निविदा को दिनांक 05.03.2025 को 2.30 PM बजे निर्धारण समिति के समक्ष खोला जाएगा।

On-line Bids on GeM are invited from reputed Manufactures/Supplier/Authorized Dealer in two bid system (Technical bid & Financial bid) for purchase of following Scientific Equipment on behalf of Director, ICAR-Indian Agricultural Research Institute, New Delhi. The last date for submission of Bid is 05.03.2025 at 2.00 PM. The bid will be opened on 05-03-2025 at 02.30 PM by the prescribed committee.

विस्तृत नियम व शर्तों को भारतीय कृषि अनुसंधान संस्थान की वेबसाइट [www.iari.res.in](http://www.iari.res.in) पर देखें एवं ऑन-लाइन के लिए इसे [www.gem.gov.in](http://www.gem.gov.in) पर भी देखा जा सकता है। Please visit [www.iari.res.in](http://www.iari.res.in) for Details Rules and Regulation and log on [www.gem.gov.in](http://www.gem.gov.in) for online bidding.

क्र.सं. S.No.	वैज्ञानिक उपकरण का नाम Name of Scientific Equipment	मात्रा Quantity
1.	GEM Bid for Purchase of Leaf Area Meter with accessories <b><u>(GEM BID NO.GEM /2025/B/5940642)</u></b>	एक One



Bid Number/बोली क्रमांक (बिड संख्या):  
GEM/2025/B/5940642  
Dated/दिनांक : 12-02-2025

**Bid Document/ बिड दस्तावेज़**

<b>Bid Details/बिड विवरण</b>	
<b>Bid End Date/Time/बिड बंद होने की तारीख/समय</b>	05-03-2025 14:00:00
<b>Bid Opening Date/Time/बिड खुलने की तारीख/समय</b>	05-03-2025 14:30:00
<b>Bid Offer Validity (From End Date)/बिड पेशकश वैधता (बंद होने की तारीख से)</b>	30 (Days)
<b>Ministry/State Name/मंत्रालय/राज्य का नाम</b>	Ministry Of Agriculture And Farmers Welfare
<b>Department Name/विभाग का नाम</b>	Department Of Agricultural Research And Education (dare)
<b>Organisation Name/संगठन का नाम</b>	Indian Council Of Agricultural Research (icar)
<b>Office Name/कार्यालय का नाम</b>	Indian Agricultural Research Institute, New Delhi
<b>क्रैता ईमेल/Buyer Email</b>	alam.singh@icar.gov.in
<b>Total Quantity/कुल मात्रा</b>	1
<b>Item Category/मद केटेगरी</b>	Leaf Area Meter (Q3)
<b>Minimum Average Annual Turnover of the bidder (For 3 Years)/बिडर का न्यूनतम औसत वार्षिक टर्नओवर (3 वर्षों का)</b>	2 Lakh (s)
<b>OEM Average Turnover (Last 3 Years)/मूल उपकरण निर्माता का औसत टर्नओवर (गत 3 वर्षों का)</b>	10 Lakh (s)
<b>Years of Past Experience Required for same/similar service/उन्हीं/समान सेवाओं के लिए अपेक्षित विगत अनुभव के वर्ष</b>	3 Year (s)
<b>MSE Exemption for Years of Experience and Turnover/ अनुभव के वर्षों से एमएसई छूट</b>	No
<b>Startup Exemption for Years of Experience and Turnover/ अनुभव के वर्षों से स्टार्टअप छूट</b>	No
<b>Document required from seller/विक्रेता से मांगे गए दस्तावेज़</b>	Experience Criteria,Past Performance,Bidder Turnover,OEM Authorization Certificate,OEM Annual Turnover *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer
<b>Do you want to show documents uploaded by bidders to all bidders participated in bid?/</b>	No

Bid Details/बिड विवरण	
Past Performance/विगत प्रदर्शन	10 %
Bid to RA enabled/बिड से रिवर्स नीलामी सक्रिय किया	No
RCM Applicable/लागू आरसीएम	Yes
Type of Bid/बिड का प्रकार	Two Packet Bid
Time allowed for Technical Clarifications during technical evaluation/तकनीकी मूल्यांकन के दौरान तकनीकी स्पष्टीकरण हेतु अनुमत समय	2 Days
Inspection Required (By Empanelled Inspection Authority / Agencies pre-registered with GeM)	No
Evaluation Method/मूल्यांकन पद्धति	Total value wise evaluation
Arbitration Clause	No
Mediation Clause	No

**EMD Detail/ईएमडी विवरण**

Required/आवश्यकता	No
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**ePBG Detail/ईपीबीजी विवरण**

Advisory Bank/एडवाइजरी बैंक	HDFC Bank
ePBG Percentage(%) / ईपीबीजी प्रतिशत (%)	0.01
Duration of ePBG required (Months) / ईपीबीजी की अपेक्षित अवधि (महीने).	12

(a). EMD & Performance security should be in favour of Beneficiary, wherever it is applicable./ईएमडी और संपादन जमानत राशि, जहां यह लागू होती है, लाभार्थी के पक्ष में होनी चाहिए।

**Beneficiary/लाभार्थी :**

ICAR-IARI New Delhi-12  
 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)

**MII Purchase Preference/एमआईआई खरीद वरीयता**

MII Purchase Preference/एमआईआई खरीद वरीयता	No
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**MSE Purchase Preference/एमएसई खरीद वरीयता**



MSE Purchase Preference/एमएसई खरीद वरीयता

Yes

1. 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.
2. 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 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.
3. 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.
4. Purchase preference will be given to MSEs having valid Udyam Registration and whose credentials are validated online through Udyam Registration portal 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 themselves of the Purchase preference, the bidder must be the manufacturer / OEM of the offered product on GeM. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises and hence resellers offering products manufactured by some other OEM are not eligible for any purchase preference. 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 and Buyer will decide eligibility for purchase preference based on documentary evidence submitted, while evaluating the bid. 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 MSE Seller shall be given opportunity to match L-1 price and contract will be awarded for 25% (selected by Buyer) percentage of total quantity. The buyers are advised to refer the OM No. F.1/4/2021-PPD dated 18.05.2023 OM No.1 4 2021 PPD dated 18.05.2023 for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017. Benefits of MSE will be allowed only if seller is validated on-line in GeM profile as well as validated and approved by Buyer after evaluation of documents submitted.
5. Past Performance: The Bidder or its OEM {themselves or through re-seller(s)} should have supplied same or similar Category Products for 10% 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. 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.

### Section 9(3) Of GST/जीएसटी की धारा 9(3)।

Where ever RCM is applicable, sellers (Regular GST registered seller who opted out of FCM , unregistered seller, seller registered under composition scheme)will be forced to put Zero GST and GST cess in their bids. Buyer will have liability of paying the GST and GST cess to the government on the specified rate mentioned by them in this Bid.

### Leaf Area Meter ( 1 pieces )

### Technical Specifications/तकनीकी विशिष्टियाँ

\* जेम केटेगरी विशिष्टि के अनुसार / As per GeM Category Specification

Specification	Specification Name/विशिष्टि का नाम	Bid Requirement/बिड के लिए आवश्यक (Allowed Values)/अनुमत मूल्य
Classification	<b>Type</b>	Portable Leaf Area Meter for Field Model, Leaf Area Meter for Both Field and Lab Model
Construction	Material of Transparent Belts	N.A.
	Components	Conveyor with LED Light and image acquisition device
Sample Specifications	Leaf or Sample Width	14.0 ( <b>centimeter</b> )
	Leaf or Sample Area (cm <sup>2</sup> )	Unlimited, N.A.
	Leaf or Sample Thickness	60.0 ( <b>millimeter</b> )
	Leaf or Sample Length (cm)	>120
Technical Specifications	Battery Voltage	3.7, 16.0 ( <b>Volt</b> )
	Data Storage Device	32 Gb
	Display Size	9.7 ( <b>inch</b> )
	Area Units	cm <sup>2</sup>
	<b>Display Type</b>	LCD
	Interface	USB 2.0
	RAM	2.0, 4.0 ( <b>gigabyte</b> )
	Operating System	Windows
Other	Additional Features	Calculates diseased area and Percentage of Diseased area, Measures area, Saves and displays images, Easy calibration, GPS Location, Length, Width, Aspect Ratio
Warranty	<b>Warranty</b>	1.0 ( <b>year</b> )
Certification and Standards	Certification	MSME, ISO
Test Report	Test Report to be submitted to the buyer on demand	No
	Availability of Test Report from Central Govt/NABL/ILAC accredited lab to prove conformity to specification	No

**Additional Specification Parameters - Leaf Area Meter ( 1 pieces )**



Specification Parameter Name	Bid Requirement (Allowed Values)
Specification of Leaf Area Meter with accessories Type: Leaf Area Meter for field and lab model	Leaf Image Analysis System for image acquisition and analysis of broad leaves. It should comprise of hardware for image acquisition (scanner) and Software for analysis of scanned image alongwith accessories. The software version should imitate the functionality of portable leaf area meters
Accessories:- ? Calibration, scanner installation & utilization for software manual, TWAIN driver and technical support for leave image acquisition.	It should have capability to measure the leaf area, length and width in a simple manner as done with those devices (in the horizontal and vertical directions), perimeter, holes area and some other measurements
? Blue background for colour analysis	Software ? Should be capable to measure total leaf area, individual leaf area, leaf length, Maximum & Average width (horizontal & vertical), Leaf Perimeter, Aspect ratio, Form coefficient, Holes area (total & individual), analysed region area, Image edition, Leaf or foliar disk analysis, Debris filtering, Interactive or batch analysis etc ? Leaf Scanner software should be compatible with TWAIN Driver/Software
Warranty :- ? One year from the date of Installation	Scanner ? Should be lightweight (less than 1.5 kg) so that it is portable and sld be possible to use in field as well as in lab ? A permeant calibration to increase the measurement precision ? Scanner Area 21.6 x 28 cm ? Optical resolution: 4800DPI with minimum pixel size 0.005 mm ? Interface USB2, TWAIN 32 bit ? Light source : RGB LED?
? Software should be licensed version, non-transferable and must be auto-upgradable for other analysis (higher versions)	Blue background for colour analysis ? Light weight, portable accessory to measure Chlorophyll content of leaf with readings in CCI & SPAD, measurement should be ratio of optical transmission at 931 nm to optical transmission at 653 nm with data storage capacity of atleast 150,000 readings.

\* Bidders offering must also comply with the additional specification parameters mentioned above.

#### Input Tax Credit(ITC)/इनपुट कर क्रेडिट(आईटीसी) and/ तथा Reverse Charge(RCM)/रिवर्स प्रभार (आरसीएम) Details

ITC on GST/जीएसटी पर इनपुट कर क्रेडिट	ITC on GST Cess/जीएसटी उपकर कर क्रेडिट	RCM Applicabl e/लागू आरसीएम	GST as per RCM/रिवर्स प्रभार के अनुसार जीएसटी	GST Cess 1 as per RCM/रिवर्स प्रभार के अनुसार जीएसटी उपकर 1	GST Cess 2 as per RCM	Optional RCM/वैकल्पिक रिवर्स प्रभार
NA	NA	Yes	18%	1%	1 (INR) - Per Unit	No

#### Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
1	SANJEEV KUMAR	110012,IARI Pusa Campus New Delhi 110012	1	15

## **Buyer Added Bid Specific Terms and Conditions/क्रता द्वारा जोडी गई बिड की विशेष शर्तें**

### **1. Generic**

After award of contract – Successful Bidder shall have to get Detailed Design Drawings approved from buyer before starting fabrication. Successful Bidder shall submit Detailed Design Drawings for Buyer's approval, within 15 days of award of contract. Buyer shall, either approve the drawings or will provide complete list of modification required in the drawings within 15 days. Seller shall be required to ensure supply as per approved Drawings with modifications as communicated by Buyer. If there is delay from buyer side in approval of drawing– the delivery period shall be refixed without LD for the period of delay in approval of Drawing.

### **2. OEM**

**IMPORTED PRODUCTS:** In case of imported products, OEM or Authorized Seller of OEM should have a registered office in India to provide after sales service support in India. The certificate to this effect should be submitted.

### **3. Scope of Supply**

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

### **4. 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.

### **5. Warranty**

Warranty period of the supplied products shall be 1 years from the date of final acceptance of goods or after completion of installation, commissioning & testing of goods (if included in the scope of supply), at consignee location. OEM Warranty certificates must be submitted by Successful Bidder at the time of delivery of Goods. The seller should guarantee the rectification of goods in case of any break down during the guarantee period. Seller should have well established Installation, Commissioning, Training, Troubleshooting and Maintenance Service group in INDIA for attending the after sales service. Details of Service Centres near consignee destinations are to be uploaded along with the bid.

## **Disclaimer/अस्वीकरण**

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. If any clause(s) is / are incorporated by the Buyer regarding following, the bid and resultant contracts shall be treated as null and void and such bids may be cancelled by GeM at any stage of bidding process without any notice:-

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. (However, in bids for attached categories, trials are allowed as per approved procurement policy of the buyer nodal Ministries)
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.

**All GeM Sellers / Service Providers are mandated to ensure compliance with all the applicable laws / acts / rules including but not limited to all Labour Laws such as The Minimum Wages Act, 1948, The Payment of Wages Act, 1936, The Payment of Bonus Act, 1965, The Equal Remuneration Act, 1976, The Payment of Gratuity Act, 1972 etc. Any non-compliance will be treated as breach of contract and Buyer may take suitable actions as per GeM Contract.**

This Bid is also governed by the General Terms and Conditions/ यह बिड सामान्य शर्तों के अंतर्गत भी शासित है

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./जेम की सामान्य शर्तों के खंड 26 के संदर्भ में भारत के साथ भूमि सीमा साझा करने वाले देश के बिडर से खरीद पर प्रतिबंध के संबंध में भारत के साथ भूमि सीमा साझा करने वाले देश का कोई भी बिडर इस निविदा में बिड देने के लिए तभी पात्र होगा जब वह बिड देने वाला सक्षम प्राधिकारी के पास पंजीकृत हो। बिड में भाग लेते समय बिडर को इसका अनुपालन करना होगा और कोई भी गलत घोषणा किए जाने व इसका अनुपालन न करने पर अनुबंध को तत्काल समाप्त करने और कानून के अनुसार आगे की कानूनी कार्रवाई का आधार होगा।

---Thank You/धन्यवाद---



## Specification of Leaf Area Meter with accessories

### **Type: Leaf Area Meter for field and lab model**

Leaf Image Analysis System for image acquisition and analysis of broad leaves. It should comprise of hardware for image acquisition (scanner) and Software for analysis of scanned image alongwith accessories. The software version should imitate the functionality of portable leaf area meters.

It should have capability to measure the leaf area, length and width in a simple manner as done with those devices (in the horizontal and vertical directions), perimeter, holes area and some other measurements

#### Software

- Should be capable to measure total leaf area, individual leaf area, leaf length, Maximum & Average width (horizontal & vertical), Leaf Perimeter, Aspect ratio, Form coefficient, Holes area (total & individual), analysed region area, Image edition, Leaf or foliar disk analysis, Debris filtering, Interactive or batch analysis etc
- Leaf Scanner software should be compatible with TWAIN Driver/Software

#### Scanner

- Should be lightweight (less than 1.5 kg) so that it is portable and should be possible to use in field as well as in lab
- A permeant calibration to increase the measurement precision
- Scanner Area 21.6 x 28 cm
- Optical resolution: 4800DPI with minimum pixel size 0.005 mm
- Interface USB2, TWAIN 32 bit
- Light source : RGB LED

#### Accessories:-

- Calibration, scanner installation & utilization for software manual, TWAIN driver and technical support for leave image acquisition.
- Blue background for colour analysis
- Light weight, portable accessory to measure Chlorophyll content of leaf with readings in CCI & SPAD, measurement should be ratio of optical transmission at 931 nm to optical transmission at 653 nm with data storage capacity of atleast 150,000 readings.

#### Warranty :-

- One year from the date of Installation
- Software should be licensed version, non-transferable and must be auto-upgradable for other analysis (higher versions)

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