



Bid Number: GEM/2022/B/2817613
Dated: 05-12-2022

Bid Document

Bid Details	
Bid End Date/Time	20-12-2022 16:00:00
Bid Opening Date/Time	20-12-2022 16:30:00
Bid Offer Validity (From End Date)	90 (Days)
Ministry/State Name	Ministry Of Agriculture And Farmers Welfare
Department Name	Department Of Agricultural Research And Education (dare)
Organisation Name	Indian Council Of Agricultural Research (icar)
Office Name	Indian Institute Of Farming System Research
Total Quantity	2
Item Category	Agricultural spray drone (Q3)
Years of Past Experience Required for same/similar service	1 Year (s)
MSE Exemption for Years of Experience and Turnover	No
Startup Exemption for Years of Experience and Turnover	No
Document required from seller	Experience Criteria *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
Bid to RA enabled	No
Type of Bid	Two Packet Bid
Time allowed for Technical Clarifications during technical evaluation	2 Days
Evaluation Method	Total value wise evaluation

EMD Detail

Advisory Bank	State Bank of India
EMD Amount	90000

ePBG Detail

Required	No
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(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:

oicstore

Indian Institute Of Farming System Research, Department of Agricultural Research and Education (DARE), Indian Council of Agricultural Research (ICAR), Ministry of Agriculture and Farmers Welfare
(Om Kumar Tomar)

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. 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.

2. 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.

3. 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.

Agricultural Spray Drone (2 pieces)

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

Brand Type	Registered Brand
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Technical Specifications

[* As per GeM Category Specification](#)

Specification	Specification Name	Bid Requirement (Allowed Values)
Standards & Certification	Model Should be DGCA Certified	Yes
Generic	Control Mode	Autonomus
Drone	Flight Time(With payload)	15.0, 18.0, 16.0, 20.0
	Hovering Time(Without payload)	20.0
	Take off weight (Max)	25.0, 24.0
	Height, (Above Ground Level)	10.0
Spray System	Tank Volume	10.0
	Material of Tube	PVC
	Material of Nozzle	Polypropylene housing with metal tips, Polypropylene housing with Plastic tips, Polypropylene housing with Ceramic tips
	Operating Payload	10.0
	Nozzle	High Pressure Flat Spray, Electrostatic Centrifugal
	Nozzle Quantity	2 pcs, 4 pcs, 6 pcs
	Material of Tank	HDPE
Battery	Charging Time	60.0
	Life Cycles(max)	150

Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	Om Kumar Tomar	250110,ICAR-INDIAN INSTITUTE OF FARMING SYSTEMS RESEARCH, NH-58, ROORKEE ROAD, MODIPURAM, MEERUT, U.P. PIN- 250110	2	15

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 Commissioning of Goods and Training of operators and providing Statutory Clearances required (if any)

3. 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.

4. 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.

5. Certificates

Bidder's offer is liable to be rejected if they don't upload any of the certificates / documents sought in the Bid document, ATC and Corrigendum if any.

6. Certificates

ISO 9001: The bidder or the OEM of the offered products must have ISO 9001 certification.

7. Buyer Added Bid Specific ATC

Buyer Added text based ATC clauses

Parameter	Specification
Approval	Should be DGCA approved
Payload capacity	10kg as payload
Tank capacity for spray	10 ltr
Frame type	Foldable
Number of propellers/Motors/Arms	Hexacopter with 6 Number of propellers/Motors/Arms Factor of Safety need to be at least 1.5

Material of construction	<ol style="list-style-type: none"> 1. Main Body connection arms- Carbon fiber 2. Propeller- Carbon x or carbon fiber composite 3. Landing gear- Aluminium or similar material resistant to chemicals with tensile strength of minimum 200 MPa 4. Tank- Chemical resistant material like HDPE or PP 5. Tubes and connectors- Chemical resistant
Type certified	Yes (as per drone rules 2021)
Flight types	<ol style="list-style-type: none"> 1. Autonomous (with control from ground control station using google or other equivalent maps with support for use of software like mission planner or equivalent having waypoint navigation system) 2. Loiter (Semi-auto with control from ground control system)
Battery	Lithium Ion or Lithium polymer
Battery fly time	Upto 20 mins with payload
Spraying capacity	Upto 8 acrs per hr
Maximum take off weight	Upto 25 kg with payload
Video output and control range	In LOS up to 2km with provision of live video streaming HDMI 1080p@ 30 fps
Image	Should be able to take high resolution photograph from GCS
Flight altitude range	<p>Up to 1500 m above mean sea level (MSL) and</p> <p>Up to 10 m above ground level (AGL)</p>
Hovering accuracy	± 0.8 m vertical and ± 0.5 m horizontal with GPS Positioning
Radio Frequency	2.4 GHz (ETA required)
RADAR based obstacle detection and collision avoidance	<ol style="list-style-type: none"> I. RADAR based Obstacle Avoidance in flight modes: Autonomous, Loiter both. II. Range of Detection: Minimum 10 meters III. Sensors: Radar in Terrain Following & Collision Avoidance IV. Rerouting: Drone must have capability to reroute itself or give control to pilot.
Required Terrain following (altimeter)	Up to 12 meters or higher
Nozzle Type	High pressure nozzles with flat jet
Nozzle Qty	Minimum 4 Numbers
Safety features	<ol style="list-style-type: none"> I. Communication link failsafe, II. tank failsafe, III. Battery failsafe, IV. Geo Fence failsafe, V. Range failsafe.
Drone approvals and legal compliances	DGCA approved, UIN enabled
Documents requirement	<ol style="list-style-type: none"> I. DGCA approval certificate for the drone. II. ETA approval certificate for the Data transmission system used in drone.
Operating temperature range	upto 50°C

Live video streaming on Ground control system	HD video transmission
Service	<ol style="list-style-type: none"> I. All maintenance, service and spares should be available in India. II. Time: for at least 3 years from purchase of Drones III. Provision of Upgradation should be available if required for multi spectral sensor and other features in future. IV. Should have service support in Uttar Pradesh V. Should have service support for pilot training
Required conditions:	<ul style="list-style-type: none"> · Company shall provide assistance in obtaining the UIN (Unique Identification no) · 3rd Party Insurance should be there. Accidental cover, Hull all risk, Pilot cover and payload cover · Company should provide necessary training/workshop for operating the drone. · Company should have delivered DGCA compliant drone of similar category to any Government Department or Institute Related to Agriculture.
Warranty	At least 1 Year on site warranty in India

Disclaimer

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority in Buyer Organization. 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 incorporated by the Buyer such as demanding Tender Sample, incorporating any clause against the MSME policy and Preference to make in India Policy, mandating any Brand names or Foreign Certification, changing the default time period for Acceptance of material or payment timeline governed by OM of Department of Expenditure shall be null and void and would not be considered part of bid. Further any reference of conditions published on any external site or reference to external documents/clauses shall also be null and void. 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. Also, GeM does not permit collection of Tender fee / Auction fee in case of Bids / Forward Auction as the case may be. Any stipulation by the Buyer seeking payment of Tender Fee / Auction fee through ATC clauses would be treated as null and void.

[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---