

कृषि भौतिकी संभाग
भारतीय कृषि अनुसंधान संस्थान
नई दिल्ली-12

DIVISION OF AGRICULTURAL PHYSICS
ICAR-Indian Agricultural Research Institute, Pusa, New Delhi-110012

File No. **AP/7-34/2019-20/**

Dated: **23/08/2019**

Tender Notice

Online quotations are invited from reputed Manufacture/Dealer/Supplier in two bid system (Technical bid & Financial bid) for purchase of following Scientific Equipment/Items on behalf of Director ICAR-Indian Agricultural Research Institute, New Delhi. The last date for submission of Bid **13-09-2018** at 01.00 PM. The bid will be opened on dated **14-09-2018** at 15:00 hrs by the prescribed committee.

Please visit www.iari.res.in for Details Rules and Regulation and Log on www.eprocure.gov.in for online.

Sl. No.	Name of Scientific Equipment/ Item	Quantity
1.	Thermal Imaging Camera with accessories	One

Instructions to the bidder and terms & conditions of tender:

The rates quoted shall be valid for a minimum period of 180 days from the last date fixed for submission of bid.

1. The rates quoted shall be free of cost delivery and installation at the Division/Unit of Agricultural Physics, IARI, New Delhi – 110012. However, equipment quoted in foreign currency must be quoted on FOB/ CIP basis
2. Custom Duty Exemption Certificate (CDEC) will be issued only when the bid is quoted in foreign currency in case of foreign made items only and meant for IARI
3. Full specifications of the item/article quoted for shall be given in the quotation.
4. If taxes, duties or any other charges over and above the rates quoted livable, actual percentage of such taxes/duties/other charges should be clearly indicated.
5. **EMD of Rs.36000/-(Thirty Six Thousand Only)** should be in the form of D.D./Pay Order/Fixed Deposit Receipt/Bank Guarantee from commercial bank drawn in favor of Director, IARI payable at New Delhi. The original EMD should be submitted to the Tender Inviting Authority on or before the last date and time of offline bid submission. The details of D.D./Pay Order/Fixed Deposit Receipt/Bank Guarantee physically sent, should tally with the details available in the scan copy and the data enter during the bid submission time otherwise the uploaded bid will be rejected.
6. No interest on security deposit and earnest money deposit shall be paid by the Institute to tender.
7. The EMD shall be refunded to the unsuccessful bidders after finalization of the

quotation. In case of successful bidder, it can be adjusted towards security deposit which is 5-10% of the order value in the form of D.D./Pay Order/Fixed Deposit Receipt/Bank Guarantee from commercial bank drawn in favor of Director, IARI payable at New Delhi and shall remain valid for 60 days beyond the date of completion of all contractual obligation of supplier including warranty obligation for the equipment/goods costing Rs.1.00 lakhs (Rs. One Lakh) or more. Here would however, be no performance security deposit for equipment/goods costing less than Rs. 1.00 lakh (Rs. One Lakh).

8. One year warranty has to be invariable provided by the firm. In case, there is any variation in the warranty period given in the specification of the item/equipment, the warranty period shall be the final as given in the specification.

9. Payment will be made by mode of e-payment to the supplier/firm after satisfactory completion of work and receipt of pre-receipt bills triplicate.

10. The Director IARI, New Delhi reserves the right to accept or reject any or all the quotations either in full or in parts without assigning any reason.

11. Cost of data logger and sensor for each unit need to be mentioned separately.

12. Quotations not complying with the above conditions are liable to be rejected.

13. TIN/VAT/PAN/C.S.T. Nos. Scanned copy of TIN/VAT/PAN/C.S.T. Nos may be attached with the bid.

14. In case, any dispute arising out of this contract shall be subject to the jurisdiction of Indian laws & Court at New Delhi. Sole arbitrator is appointed by the Secretary, ICAR, and New Delhi. His decision will be final and binding on both parties (Supplier and Purchaser)

15. The successful bidder has to execute the indented Job/Work as mentioned in the supply order placed with them within the stipulated period as given in the supply order placed by this office failing which 2% per week and maximum of 10% deduction as liquidated damage charges will be made from the bill in case the job is not completed within the given stipulated period.

Firms should have 3 years experience in this line, proof should be enclosed.

Sl. No.	Description / Specification of the Equipment/ Item
1.	Thermal Imaging Camera with accessories

Technical Specifications for Thermal Imaging Camera with accessories

Feature	Type
Thermal Imager	Uncooled VOxMicrobolometer
Resolution (minimum)	640 ×512
Lens Options	13 mm to 20mm
Spectral Band	7.5 -13.5 μm
Frame Rates	25Hz or more
FOV	30° or more
Temperature Range	-20 to +50 degree C or wider
Type	Radiometric with geotagger
Size	No dimension should exceed 10cm
Weight	150gm or less
Image storage	SD CARD
Type	Radiometric with geotagger.
Connection options	USB
Compatibility	UAV platform DJI-Phantom 4 pro and Inspire 2 and Matrice 100 and Matrice600 Pro.
Accessories	
Aerial Panel	<ul style="list-style-type: none"> • Quadcopter with inbuilt GPS and required accessories • Weight : not more than 2500gm gimbal, battery, propellers • Maximum take off weight 3500gm or more • Diagonal Size :650mm or less • Expansion bay weight :45gm or less • Battery compartment weight :160gm or less • Gimbal with RGB camera weight :250gm or less • Hovering accuracy (P-Mode with GPS) : Vertical :0.5m and Horizontal :2.5m • Max. Angular Velocity :Pitch: 300°/s, Yaw: 150°/s • Max. Tilt Angle :35° • Max. Speed of Ascent:5 m/s • Max. Speed of Descent:4 m/s • Max. Wind Resistance:10 m/s • Max Speed :17m/s or more • Hovering time min 20 min with no payload, 16min with 500gm payload and 12min with 1kg payload • Intelligent flight battery with 5700mAh, 22.8v LiPo 6S, max wt 700gm, max charging power 180W • Remote Controller ,videooutput, mini-HDMI, Built in battery power supply, with charger • Display unit with 4G; WiFi with min storage 128GB • Mobile processing unit (Windows OS, 14in, min.512GB hard disk, min 16GB ram and min 2.7GHz CPU) backlit keyboard) Data Processing software for images taken from air borne platform (optional)
	<ul style="list-style-type: none"> o Two Extra batteries for IR camera and Aerial Panel o Module for holding IR Camera on Aerial panel : One o Video module (may be quoted as optional) : One
Other Essential Conditions	
	<ul style="list-style-type: none"> ▪ Camera should be compatible with aerial panel and should be plug and play within no time.

- Seller must provide integrated system of thermal camera with panel
- IR imaging Camera should have Geo tagging feature/ Module with data transfer capability from aerial panel.
- Data captured should be compatible to process in any Image Processing Software with geotagging
- On site training on data acquisition and processing
- Minimum 1year warranty
- Must have documentary evidence of supplying similar items