



KERALA AGRICULTURAL UNIVERSITY

College of Agriculture, Vellayani

Thiruvananthapuram-695 522

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No. COAVNY/1533/2024-GL-B1(i)

Dated. Vellayani, 07-03-2025

TENDER NOTICE

Sealed competitive tenders are invited from the persons/firms for the “Purchase of drone” as per the specifications and terms& conditions detailed below.

Drone Specifications

| Item | Specifications |
|---|--|
| Imaging System resolution (Day light) | At least 1920 * 1080 Full Hd |
| Optical Zoom-in capacity | 5X |
| Weight (net weight including battery & Payload) | Less than or equal to 2 kilogram |
| Product compliant & ready for DGCA & No-permission No-takeoff guideline | Yes, Needed |
| Equipment Type Approval (ETA) from WPC Wing, Department of Telecommunication that drone is working in de-licensed frequency band(s) | Yes, Needed |
| Warranty (Minimum) | 2 year |
| Classification of UAV as per DGCA regulation for Civil Aviation requirement in India | Nano or Micro |
| Protection Class for Backpack | IP65 |
| Payload freedom (in flight) across verticle axis | 90 degree |
| Wind resistance (maximum) (Km/hr) | 20-24 |
| Operational endurance | >=30 minutes |
| Advanced flight modes | Remotely Piloted mode for video-based navigation (RPV Mode) Real-time Target Tracking of designated static and moving targets |
| Nominal Cruise speed (meter/second) | 4-6 |
| Payload freedom (in flight) across horizontal axis | 360 degree |
| Operational Altitude (above ground level) | >=200m |
| Minimum Radius Range covered from line of sight (for live transmission) | 1 kilometer |
| Video transmission during flight operation | Real-time |
| Minimum Technical life of UAV (number of landings) | 400 |
| Maximum Vertical aviation speed (meter/second) | 2 |
| Launch Altitude (above mean sea level) | >=2000m |
| Real-time video on-screen display parameters | UAV co-ordinates, true north |

| | |
|--|--|
| | indication, distance from home |
| Surveillance parameters displayed | Geographic map, UAV location, way points, flight plans |
| Image system provided | Day Light |
| Video recorded format on the gcs | Mp4 |
| On-flight captured modes | Video |
| Control System | Fully Autonomous |
| Ground Controlled software system for control provided | Yes |
| Port for data transfer from GCS hardware | USB |
| Data recording | SD card |
| Propulsion of UAV powered through | Battery powered |
| Data recording setup card | Inbuilt in camera |
| Map compatibility | Google, open source |
| Laptop/ Tablet/ Smart phone | Should be provided |
| Training | Should be provided |
| Number of Spare Battery | 3 |

| Cost of Tender form | |
|--|--|
| Particulars | Cost (Rs.) |
| Amount between Rs. 1,00,000/- and 10,00, 000/- | 0.2% of the quoted amount rounded to the nearest multiple of Rs.100/- subject to a minimum of Rs.400/- and maximum of Rs.1500/- + GST @ 18%(extra) |
| Amount more than Rs. 10,00, 000/- | 0.15% of the quoted amount rounded to the nearest multiple of Rs. 100/-subject to a maximum of Rs. 25000/- + GST @ 18%(extra) |

Last date & time of receipt of tender: **22.03.2025 2 PM**

Date & time of opening of the tender: **22.03.2025 3 PM**

TERMS AND CONDITIONS

1. The sealed envelope containing the tender should bear the superscription **Purchase of drone**” and should be addressed to the Dean of Faculty, College of Agriculture, Vellayani, Thiruvananthapuram-695 522.
2. The tender should be accompanied by an agreement in Kerala stamp paper worth Rs. 200/- (Rupees Two hundred only) and format can be downloaded from the website www.kau.in. Withdrawal of tenders after its acceptance or failure to execute the work in time or comply with the specification will entail cancellation of tender order and attract legal procedures as per the agreement.

3. Each tender should be accompanied by Earnest Money Deposit (EMD) of 1% of the amount quoted for the item (subject to minimum of Rs. 1500/-) by way of two crossed Demand Drafts separately for tender cost and EMD drawn in favour of the Dean of Faculty, College of Agriculture, Vellayani, Thiruvananthapuram-695 522 payable at State Bank of India, Vellayani. Late and incomplete tenders and tenders without EMD, tender cost and agreement will not be accepted. Firms who are exempted from the payment of EMD should furnish a copy of the currently valid certificates from Store purchase Department, Govt. of Kerala.
4. Tenders will be accepted up to 2 PM on 22.03.2025 Tenders received after the stipulated time will not be accepted.
5. Tenders will be opened at 3.00 pm on the same day at the presence of those bidders who are present at that time.
6. If the date of opening the tender happens to be a holiday due to unexpected circumstances like bandh, hartal etc., quotations will be opened on the next working day at the same place and time.
7. The rate quoted for the work should be inclusive of all charges, taxes and should be valid for one year w.e.f. the date of issue of supply order.
8. The Dean of Faculty, College of Agriculture, Vellayani has the right to accept or reject any or all of the offers without assigning any reason. The decision of the undersigned in finalizing the tenders will be the final and binding.
9. The bidder of the accepted tender should enter into an agreement with the Dean of Faculty, College of Agriculture, Vellayani on Kerala stamp paper worth Rs. 200/-. He should also submit a security deposit equal to 5% of the bid in the form of Term Deposit/Bank Guarantee/Demand Draft drawn in favour of Dean of Faculty, College of Agriculture, and Vellayani payable at State Bank of India, Vellayani when directed from this office. The format of the agreement can be downloaded from the above website.
10. The supply order will be placed immediately on the confirmation of the tender and availability of funds and invoice should be addressed to the Dean of Faculty, College of Agriculture, Vellayani after the successful completion.
11. The item should be supplied and installed within 10 days from the date of issue of supply order.
12. The period of warranty for the items should be stated separately.
13. Tenders insisting payment in advance either full or part are liable for rejection.
14. The payment as per the invoice will be made only after the supply & installation of the item as per the specifications and tenderer is liable to rectify/replace the defective articles/work immediately on receipt of intimation. TDS will be deducted from the

payment to the contractor under section 194 C of the Income Tax Act. The deduction rate will be 1% for individuals and HUF & 2% for others.

15. Any failure on the part of the bidder in the fulfilment of contractual obligations will result in the forfeiture of EMD/Security Deposit.
16. The item should be delivered and installed at the expenses of the successful bidder.
17. Rate quoted should be inclusive of all charges such as packing, forwarding, freight, loading/unloading/handling or installation charges, AMC and Government duties leviable, if any.
18. The supplier has to make his own arrangement for the ordinary / special tools, machinery, and other consumables required for successful completion of installation and testing.
19. The bidder should ensure on site service support for the supply/installation.
20. The maximum period required for delivery and installation of the article should be mentioned.
21. If any license or permit is required, Bidders must specify in their tender and also state the authority to whom application is to be made.
22. All subsequent Government orders connected to tenders and any revision in the rates of taxes would also be applicable to this tender.
23. All other technical and commercial terms and conditions as per the code rules in force in Kerala State will be applicable in this case also.
24. All the rules and regulations applicable to Government tenders will be applicable to this tender also.

Dr. Roy Stephen
DEAN OF FACULTY (AGRICULTURE)

To

Directorate of Information Systems (for publishing in the KAU website)/ Notice Board (College, Main gate)

Copy to:

Dr. Sreekala G.S., Assistant Professor, Department of Plantation Crops & Spices/
Spare

// Forwarded/order//

SECTION OFFICER