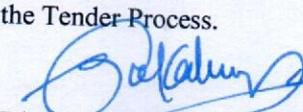


1. General Instructions (Necessary support documents are to be enclosed)

- A. The tender process will be of two bid system-Technical Bid and Financial bid process. The tenderer should submit two separate sealed covers mentioning Technical Bid & Financial Bid. The tenderer which qualifies in Technical Bid only will be eligible to participate in Financial Bid.
- B. The Bid Must Contain the Requisite Tender Document Cost of Rs.1000/- and EMD of Rs. 80,000/-as per the advised mode in the technical bid document only. The Bid documents can be obtained from the office of the undersigned on payment of requisite fee or can be downloaded from website <http://Sambalpur.odisha.gov.in> / www.odishaforest.in from 11:00 Hours of 07.03.2025 to 17:00 Hours of 17.03.2025 for bidding.
- C. EMD should be in the shape of Demand Draft issued by a nationalized or scheduled bank in favour of "The Divisional Forest Officer, Redhakhol Forest Division, "Payable at Redhakhol. The bid document is available on working day in the office of the undersigned.
- D. The bidder must have valid GSTIN and must furnish the GST Registration certificate, GST Clearance certificate, PAN, IT and GST returns for 2021-22 to 2023-24 in the bid documents.
- E. Last date of bid submission (by messenger / Courier / Post)- 17.03.2025 at 05.00 PM in the office of the Divisional Forest Office, Redhakhol Forest Division.
- F. Date of bid opening – 18.03.2025 at 01.30 PM in the office of the Divisional Forest Officer, Redhakhol Forest Division, Redhakhol.
- G. Tenderers have to mention the Company, Model, Manufacture year and detailed Technical Specifications of the Procurement of one (01) number UAV (DRONE) with battery combo pack (Battery kit, Speaker and RTK module)in the Technical Bid. The Tender Evaluation Committee will scrutinize and verify the model & Specifications on the same date and will open the Financial Bids of technically qualified bidders.
- H. The decision of the Tender Evaluation Committee shall be final. The committee has right to alter/modify/add/delete any terms and conditions of the tender call notice. The committee also reserves the right to cancel the Tender process at any point of time without mentioning the reasons thereof.
- I. The Cost of tender paper of Rs. 1000/- and EMD cost of Rs.80,000/- in the shape of Demand Draft issued by a nationalized or scheduled commercial bank should be enclosed in technical bid only and not in financial bid.

Terms & Conditions:

1. The bidders shall mention details of the Company, Model, Manufacture year and detailed Technical Specifications of the UAV (DRONE) WITH COMBO PACK (BATTERY KIT, SPEAKER, LANDING PAD AND RTK MODULE) sets in the Technical Bid.
2. The bidders can also indicate any superior technical specifications.
3. The successful bidder must give training for minimum 7 days to the staff for use of the Procurement of one (01) number UAV (DRONE) with battery combo pack (Battery kit, Speaker and RTK module) sets.
4. The Bidder must satisfy all the Eligibility Criteria to participate in the Tender Process.


Divisional Forest Officer,
Redhakhol Forest Division.

UAV (DRONE) WITH COMBO PACK (BATTERY KIT, SPEAKER, LANDING PAD AND RTK MODULE) ALONG WITH TRAINING AT FIVE LOCATIONS

Specification

Quantity: 1 Unit

- i. 1/2-inch CMOS 48MP wide-angle camera, a zoom camera, and a thermal camera,
- ii. 56× Hybrid zoom camera
- iii. 4/3 CMOS Wide Camera
- iv. 56× Hybrid Zoom
- v. 640 × 512 px Thermal Camera
- vi. 45-min Max Flight Time
- vii. Centimeter-level Positioning with RTK
- viii. High-Volume Loudspeaker
- ix. Wide Equivalent Focal Length: 24mm, 48MP
- x. Zoom Equivalent Focal Length: 162mm, 12MP, 56× Hybrid Zoom
- xi. Thermal DFOV: 61°, Equivalent Focal Length: 40mm, Resolution 640 × 512

Wide Camera

- i. Sensor: 1/2-inch CMOS, Effective pixels: 48 MP
- ii. Lens: FOV: 84°, Format Equivalent: 24 mm, Aperture: f/2.8, Focus: 1 m to ∞
- iii. ISO Range: 100-25600
- iv. Shutter Speed: Electronic Shutter: 8-1/8000 s
- v. Max Image Size: 8000×6000
- vi. Still Photography Modes: Single: 12 MP/48 MP, timed: 12 MP/48 MP, JPEG: 2/3/5/7/10/15/20/30/60 s*, Panorama: 12 MP (raw image); 100 MP (stitched image), Smart Low-light Shooting: 12 MP * Shooting 48MP photo does not support 2s interval
- vii. Video Resolution H.264, 4K: 3840×2160@30fps, FHD: 1920×1080@30fps
- viii. Bitrate: 4K: 85 Mbps, FHD: 30 Mbps
- ix. Supported File Formats ex FAT
- x. Photo Format: JPEG
- xi. Video Format MP4 (MPEG-4 AVC/H.264)

Tele Camera

- i. Sensor 1/2-inch CMOS, Effective pixels: 12 MP
- ii. Lens FOV: 15°, Format Equivalent: 162 mm, Aperture: f/4.4, Focus: 3 m to ∞
- iii. ISO Range: 100-25600
- iv. Shutter Speed Electronic Shutter: 8-1/8000 s
- v. Max Image Size 4000×3000
- vi. Photo Format JPEG
- vii. Video Format MP4 (MPEG-4 AVC/H.264)
- viii. Still Photography Modes: Single: 12 MP, Timed: 12 MP, JPEG: 2/3/5/7/10/15/20/30/60 s, Smart Low-light Shooting: 12 MP
- ix. Video Resolution H.264, 4K: 3840×2160@30fps, FHD: 1920×1080@30fps
- x. Bitrate: 4K: 85 Mbps, FHD: 30 Mbps
- xi. Digital Zoom 8x (56x hybrid zoom)

Thermal Camera

- i. Thermal Imager Uncooled VOX Microbolometer
- ii. Pixel Pitch- 12 μm
- iii. Frame Rate- 30 Hz
- iv. Lens DFOV: 61°, Format Equivalent: 40 mm, Aperture: f/1.0, Focus: 5 m to ∞
- v. Sensitivity $\leq 50 \text{ mk@F1.1}$
- vi. Temperature Measurement Method Spot Meter, Area Measurement
- vii. Temperature Measurement Range -20° to 150° C (-4° to 302° F, High Gain Mode), 0° to 500° C (32° to 932° F, Low Gain Mode)
- viii. Palette White Hot/Black Hot/Tint/Iron Red/Hot Iron/Arctic/Medical/Fulgurite/Rainbow 1/Rainbow 2
- ix. Photo Format- JPEG (8-bit), R-JPEG (16-bit)
- x. Video Resolution- 640×512@30fps
- xi. Bitrate- 6 Mbps
- xii. Video Format- MP4 (MPEG-4 AVC/H.264)
- xiii. Still Photography Modes: Single: 640×512, Timed: 640×512, JPEG: 2/3/5/7/10/15/20/30/60 s
- xiv. Digital Zoom- 28x
- xv. Infrared Wavelength- 8-14 μm
- xvi. Infrared Temperature Measurement Accuracy $\pm 2^\circ \text{C}$ or $\pm 2\%$ (using the larger value)

Battery- One with drone and two with combo pack

- i. Capacity- 5000 mAh
- ii. Standard Voltage-15.4 V
- iii. Max Charging Voltage-17.6 V
- iv. Type- LiPo 4S
- v. Chemical System- LiCoO₂
- vi. Energy- 77 Wh
- vii. Weight- 335.5 g
- viii. Charging Temperature- 5° to 40° C (41° to 104° F)

Charger

- i. Input- 100-240 V (AC Power), 50-60 Hz, 2.5 A
- ii. Output Power- 100 W
- iii. Output Max- 100 W (total) When both ports are used, the maximum output power of each interface is 82 W, and the charger will dynamically allocate the output power of the two ports according to the load power.

Charging Hub

- i. Input- USB-C 5-20 V, 5.0 A
- ii. Output Battery Port- 12-17.6 V, 8.0 A
- iii. Rated Power 100 W
- iv. Charging Type- Three batteries charged in sequence
- v. Charging Temperature Range- 5° to 40° C (41° to 104° F)

RTK Module – 1Nos

- i. Dimensions- 50.2×40.2×66.2 mm (L×W×H)
- ii. Weight- 24±2 g
- iii. Interface- USB-C
- iv. Power Approx.- 1.2 W
- v. RTK Positioning Accuracy RTK Fix: Horizontal: 1 cm + 1 ppm; Vertical: 1.5 cm + 1 ppm

Speaker – 1nos

- i. Dimensions- 114.1×82.0×54.7 mm (L×W×H)
- ii. Weight- 85±2 g
- iii. Interface- USB-C
- iv. Rated Power- 3 W
- v. Max Volume- 110 dB @ 1 m
- vi. Effective Broadcast Distance- [11] 100 m @ 70 dB
- vii. Bit Rate- 16 Kbps/32 Kbps
- viii. Operating Temperature Range -10° to 40° C (14° to 104° F)

The UAV (DRONE) shall consist of the following components as one unit:

- i. Aircraft – 1nos
- ii. Intelligent Flight Battery – 1nos
- iii. microSD Card 64GB – 1nos
- iv. Gimbal Protector – 1nos
- v. Series Propellers (Pair) – 6nos
- vi. RC Pro Enterprise – 1nos
- vii. Screwdriver – 1nos
- viii. USB-C Power Adapter (100W) – 1nos
- ix. 100W Power Adaptor AC Cable – 1nos
- x. USB-C Cable – 1nos
- xi. USB-C to USB-C Cable – 1nos
- xii. Protector Case – 1nos
- xiii. RTK Module – 1nos
- xiv. Combo Battery Kit – 1nos
- xv. SanDisk Extreme- 512GB V30 A2 microSDXC - 1nos
- xvi. Card reader for microSD card / SD card – 1nos
- xvii. Speaker – 1nos
- xviii. Landing pad – 1nos
- xix. Training – 2 (two) locations

Additional mandatory Terms and Conditions for qualifying in the Technical BID.

1. Copies of GST returns (FY 2024-25 till latest month), Income Tax return (Last three Financial Years) along with copies of PAN and Valid GST registration Certificate shall be submitted along with the technical BID.
2. **EMD:** The value of Earnest Money to be deposited by the bidder shall be Rs.80,000/-. EMD should be in the form of Demand Draft / electronically from any Nationalized Bank in favour of Divisional Forest Officer, Sambalpur, Payable at Sambalpur and must be accompanied with the technical bid. For unsuccessful tenderer EMD shall be refunded immediately after Finalization of the bid. EMD shall be forfeited if the L1 bidder fails to accept the order within 5 days from the date of issue of contract order.
3. **Experience Criteria:** The Bidder should have supplied UAV (DRONE) to any Govt. Department of Odisha Government / Central Government for 2 years before the bid opening date. Copies of relevant contracts to be submitted along with bid in support. (Copy of Purchase Order / Supply Order / GeM Contract shall be submitted by the bidder for technical qualification). Tampering of Purchase Order / Supply Order / GeM Contract by the sellers shall be rejected outrightly without assigning any reason thereof). Legible copy of the Purchase Order / Supply Order / GeM Contract shall be submitted for technical qualification, if not the sellers shall be rejected outrightly without assigning any reason thereof.

4. Security Deposit / ePBG:

a) The supplier shall be responsible for any rectification of problems within the warranty period of 01 (one) year. Replacement of any parts within the warranty period shall be on the part of the supplier.

b) The supplier should provide the service report to the purchaser. After Award of contract to the successful bidder, the supplier shall deposit 3% of the contract value in form of demand draft / FD Pledge in favour of Divisional Forest Officer, Redhakhol Forest Division for Bank Guarantee/Security Deposit within 15 days of Award of contract. After receipt of the Security Deposit only payment shall be made to the supplier. The Security Deposit shall only be returned to the supplier on demand without interest after following all conditions mentioned above.

5. Delivery: 15 days from issue of Contract Order. Non-delivery within the date shall attract penal charges as per Bid Guidelines.

6. Undertaking that all the certificates / permissions / documents are valid and current as on date and have not been withdrawn / cancelled by the issuing authority. The Authority have right to ask for original documents if any doubt arises.

7. Only those bidders, who participate in the post-bid enquiry online, shall be accepted for qualifying for the Technical BID if they are found to fulfil all the technical parameters as mentioned in the BID document. All bidders willing to participate in the Technical Bid online, shall have to attend the post-Bid enquiry. During post-bid enquiry meeting the Bidder shall make a PowerPoint Presentation about the equipment they will be quoting. Bidders not attending the post-bid enquiry shall be disqualified in Technical Bid.

8. The bidders are requested to submit the details about their product in their letter head, duly signed during submission of technical bid. Basing on their product specification, and other requirement as pre the terms and conditions in the BID technical evaluation shall be made, thereafter acceptance of technical BID, online through GeM, in the following format:

Sl. No.	Parameters floated	Parameters offered

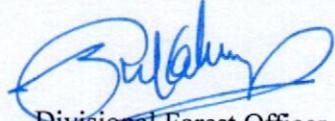
9. Bidder financial standing: The bidder should not be under liquidation, court receivership or similar proceedings, should not be bankrupt. Bidder to upload undertaking to this effect with bid.

10. Scope of supply (Bid price to include all cost components): Supply Installation Testing Commissioning of Goods and Training of operators. Training shall be given at the five Range Headquarters, if the bidder fails to complete the training

within 30days of receipt of the materials at the five locations as decided by the Divisional Forest Officer, Redhakhol Forest Division then an amount of Rs. 5000/-

shall be deducted for each training with a total of Rs.25000/- for the five trainings from the billed amount. An undertaking to the effect shall be given along with the technical bid.

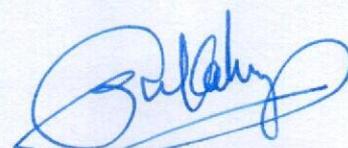
11. The Seller shall not assign the Contract in whole or part without obtaining the prior written consent of buyer. The Seller shall not sub-contract the Contract in whole or part to any entity without obtaining the prior written consent of buyer. The Seller shall, notwithstanding the consent and assignment/sub-contract, remain jointly and severally liable and responsible to buyer together with the assignee/ sub-contractor, for and in respect of the due performance of the Contract and the Sellers obligations there under.
12. Warranty period of the supplied products shall be 02 years from the date of final acceptance of goods or after completion of installation, commissioning & testing of goods at consignee location. The seller should guarantee the rectification/replacement of goods in case of any break down during the warranty period.
13. The successful bidder has to supply all essential accessories required for the successful installation and commissioning of the goods supplied. Besides standard accessories as per normal industry practice, following accessories must be part of supply and cost should be included in bid price.
14. **Scope of supply includes Transportation, Installation (Installation shall be done at the Divisional Forest Officer, Redhakhhol Forest Division, Redhakhhol, Odisha), Commissioning and GST Charges to be included in the bid. The L1 bidder shall submit the equipment and the accessories to the Divisional Forest Officer, Redhakhhol Forest Division, Redhakhhol, Odisha physically by hand only or sealed pack. Tampering of packed in any form, the material shall not be accepted. No other modes shall be accepted for receiving the items. Only after successful operation of the item's payment shall be made. Field testing (both day and night) shall be done in presence of the supplier, if the equipment is found functioning in all aspect, then only the product shall be accepted else it would be rejected without assigning any reason thereof. Flying test shall be obligatory on the part of the supplier at the location within the jurisdiction of the Divisional Forest Officer, Redhakhhol Forest Division, Redhakhhol, Odisha.**
15. Without prejudice to Buyer's right to price adjustment by way of discount or any other right or remedy available to Buyer, Buyer may terminate the Contract or any part thereof by a written notice to the Seller, if: i) The Seller fails to comply with any material term of the Contract. ii) The Seller informs Buyer of its inability to deliver the Material(s) or any part thereof within the stipulated Delivery Period or such inability otherwise becomes apparent. iii) The Seller fails to deliver the Material(s) or any part thereof within the stipulated Delivery Period and/or to replace/rectify any rejected or defective Material(s) promptly. iv) The Seller becomes bankrupt or goes into liquidation. v) The Seller makes a general assignment for the benefit of creditors. vi) A receiver is appointed for any substantial property owned by the Seller. vii) The Seller has misrepresented to Buyer, acting on which misrepresentation Buyer has placed the Purchase Order on the Seller.
16. Non-compliance of any of the Terms & Conditions mentioned in the Bid, the bidder / seller shall be rejected.


Divisional Forest Officer
Redhakhhol Forest Division

Annexure-I

Installation Certificate to be uploaded after installation by the Supplier.

Sl. No.	Name of the site	GPS Location	Range/ Section/ Beat	Name and designation of the Forest Staff present during installation
Signature of Authorized personnel involved in installation				



Divisional Forest Officer,
Redhakhol Forest Division.