



OFFICE OF THE DIVISIONAL FOREST OFFICER: DEOGARH DIVISION
Phone No. 06641-226403/226503 (OFFICE/FAX), Cell No. 9437055978
Email- dfo.deogarh@odisha.gov.in

SHORT TENDER NOTICE

Tender No. 05/2022-23 Dated: - 31.12.2022

Divisional Forest Officer, Deogarh Forest Division on behalf of Governor of Odisha invites sealed tenders from reputed intending Manufacturing Firms/ Dealers/ Suppliers having valid GSTIN and PAN Registration No. for supply of 01 (one) nos of Drones with night vision (Thermal) Camera at least 12MP Camera Loudspeaker and minimum 45 minutes Fly time with additional 2 (Two) nos. Batteries for use in Deogarh Forest Division during the year 2022-23. The tender papers with detailed terms and conditions will be available in the Office of DFO, Deogarh on payment of Rs. 1,000/- (One thousand) only in cash or Account Payee Bank Draft in favour of Divisional Forest Officer, Deogarh Forest Division during office hours from 04.01.2023 to 16.01.2023 till 11:00 am. The Tender Papers can be submitted at the below mentioned address on or before 16th January, 2023 latest by 11.00 AM by Speed Post/ registered post/ by hand only. The tender will be opened in the office of the undersigned on 16th January, 2023 at 11.30 AM.

**Post/Courier: Divisional Forest Officer, Office of the DFO, Deogarh Forest Division, At: -
Traffic Chowk, Pin-768108.
Email-id: dfo.deogarh@odisha.gov.in**


Divisional Forest Officer 31/12/22
Deogarh Forest Division

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 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. 10,000/- as per the advised mode in the technical tender document. The Bid documents can be obtained from the office of the undersigned on payment of requisite fee or can be downloaded from website www.odishaforest.in/www.deogarh.nic.in from 11:00 Hours of 04.01.2023 to 11:00 Hours of 16.01.2023 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, Deogarh Forest Division, "Payable at Deogarh. 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 return for 2019-20 to 2021-22 in the bid.
- E. Last date of bid submission (by messenger / Courier / Post)- 16th January, 2023 at 11:00 AM in the office of the Divisional Forest Office, Deogarh Forest Division.
- F. Date of bid opening – 16th January, 2023 at 11.30 AM in the office of the Divisional Forest Officer, Deogarh Forest Division, Deogarh.
- G. Tenderers have to mention the Company, Model, Manufacture year and detailed Technical Specifications of the Drone Camera 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 is final. The committee has right to cancel the Tender process at any point of time without mentioning the reason thereof.
- I. Cost of tender paper of Rs. 1000/- and EMD cost of Rs.10,000/- in the shape of Demand Draft issued by a nationalized or scheduled commercial bank should be enclosed in technical bid only.

Terms & Conditions:

1. The bidders shall mention details of the Company, Model, Manufacture year and detailed Technical Specifications of the Drone Camera 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 Drone camera.

The Bidder must satisfy all the Eligibility Criteria to participate in the Tender Process.


Divisional Forest Officer
Deogarh Forest Division.

A. TECHNICAL BID OF TENDER APPLICATION FORM FOR 01 (ONE) NOS OF DRONES WITH NIGHT VISION (THERMAL) CAMERA ATLEAST 12MP CAMERA LOUDSPEAKER AND MINIMUM 45 MINUTES FLY TIME WITH ADDITIONAL 2 (TWO) NOS BATTERIES MANUFACTURING FIRMS/ DEALER / SUPPLIER

01. Name of the Manufacturing Firm/ Dealer/ Supplier:
02. Name of the Owner/ Proprietor:
03. Name of the Authorized representative:
04. Permanent Address in Full:
05. Present business Address for Correspondence:
06. Communication with Telephone No:
07. PAN CARD No. & Aadhaar No. (copies are to be submitted):
08. G.S.T. Registration No.
(A copy of registration certificate is to be attached)
09. Copy of Filling of GST Return
For the year 2019-20, 2020-21 & 2021-22
(Copy is to be submitted)
10. Filing of Income Tax Return for Last 3 years.
11. Copy of Order for supply of Drone Camera to another Division/office/Department:
12. Drone Camera Specification:
13. Amount of Tender Paper Deposited with receipt No:
14. EMD deposited with BD No. date & Bank details:
15. List of documents submitted with Tender Papers:
 - a)
 - b)
 - c)
 - d)
 - e)
 - f)

I declare that the particulars furnished above are true to the best of my knowledge and I accept all terms conditions of this tender without any objections.

Place
Date

Full Signature of the Tender.
Full Postal Address with Contact No.



B. FINANCIAL BID OF TENDER APPLICATION FORM FOR 01 (ONE) NOS OF DRONES WITH NIGHT VISION (THERMAL) CAMERA ATLEAST 12MP CAMERA LOUDSPEAKER AND MINIMUM 45 MINUTES FLY TIME WITH ADDITIONAL 2 (TWO) NOS BATTERIES MANUFACTURING FIRMS/ DEALER / SUPPLIER

01. Name of the Manufacturing Firm/ Dealer/ Supplier:

02. Permanent Address if Full:

03. Present Address with Telephone No

04. Rate Quoted by the Tenderer:

Serial No.	Make and Model	Specifications	Total cost inclusive of all Taxes.

Certified that I shall supply the above Drone Camera in the rate quoted against each as per the order of the Divisional Forest Officer, Deogarh Forest Division. In no case the quoted rate will be changed / enhanced and I shall supply good quality of Drone Camera selected for supply. I shall be responsible to supply the same failing which my earnest money deposit security deposit amount will be forfeited to Government.

Place:

Full Name and Signature of the Tenderer

Date:

Technical Specification:

UAV (DRONE) WITH COMBO PACK (BATTERY KIT AND RTK MODULE)

Specification

Quantity: 1 Unit

1/2-inch CMOS 48MP wide-angle camera, a zoom camera, and a thermal camera,

56× Hybrid zoom camera

4/3 CMOS Wide Camera

56× Hybrid Zoom

640 × 512 px Thermal Camera

45-min Max Flight Time

Centimetre-level Positioning with RTK

High-Volume Loudspeaker

Wide Equivalent Focal Length: 24mm, 48MP

Zoom Equivalent Focal Length: 162mm, 12MP, 56× Hybrid Zoom

Thermal DFOV: 61°, Equivalent Focal Length: 40mm, Resolution 640 × 512

Wide Camera

Sensor : 1/2-inch CMOS, Effective pixels: 48 MP

Lens : FOV: 84°, Format Equivalent: 24 mm, Aperture: f/2.8, Focus: 1 m to ∞

ISO Range : 100-25600

Shutter Speed : Electronic Shutter: 8-1/8000 s

Max Image Size : 8000×6000

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

Video Resolution H.264, 4K: 3840×2160@30fps, FHD: 1920×1080@30fps

Bitrate : 4K: 85 Mbps, FHD: 30 Mbps

Supported File Formats exFAT

Photo Format : JPEG

Video Format MP4 (MPEG-4 AVC/H.264)

Tele Camera

Sensor 1/2-inch CMOS, Effective pixels: 12 MP

Lens FOV: 15°, Format Equivalent: 162 mm, Aperture: f/4.4, Focus: 3 m to ∞

ISO Range : 100-25600

Shutter Speed Electronic Shutter: 8-1/8000 s

Max Image Size 4000×3000

Photo Format JPEG

Video Format MP4 (MPEG-4 AVC/H.264)

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

Video Resolution H.264, 4K: 3840×2160@30fps, FHD: 1920×1080@30fps

Bitrate : 4K: 85 Mbps, FHD: 30 Mbps

Digital Zoom 8x (56x hybrid zoom)

Thermal Camera

Thermal Imager Uncooled VOx Microbolometer

Pixel Pitch 12 μm

Frame Rate 30 Hz

Lens DFOV: 61°, Format Equivalent: 40 mm, Aperture: f/1.0, Focus: 5 m to ∞

Sensitivity ≤50 mk@F1.1

Temperature Measurement Method Spot Meter, Area Measurement

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)

Palette White Hot/Black Hot/Tint/Iron Red/Hot Iron/Arctic/Medical/Fulgurite/Rainbow 1/Rainbow 2

Photo Format JPEG (8-bit), R-JPEG (16-bit)

Video Resolution 640×512@30fps

Bitrate 6 Mbps

Video Format MP4 (MPEG-4 AVC/H.264)

Still Photography Modes : Single: 640×512, Timed: 640×512, JPEG:

2/3/5/7/10/15/20/30/60 s

Digital Zoom 28x



Infrared Wavelength 8-14 μm

Infrared Temperature Measurement Accuracy $\pm 2^\circ\text{C}$ or $\pm 2\%$ (using the larger value)

Battery

Capacity 5000 mAh

Standard Voltage 15.4 V

Max Charging Voltage 17.6 V

Type LiPo 4S

Chemical System LiCoO₂

Energy 77 Wh

Weight 335.5 g

Charging Temperature 5° to 40°C (41° to 104°F)

Charger

Input 100-240 V (AC Power), 50-60 Hz, 2.5 A

Output Power 100 W

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

Input USB-C: 5-20 V, 5.0 A

Output Battery Port: 12-17.6 V, 8.0 A

Rated Power 100 W

Charging Type Three batteries charged in sequence

Charging Temperature Range 5° to 40°C (41° to 104°F)

RTK Module

Dimensions 50.2×40.2×66.2 mm (L×W×H)

Weight 24 ± 2 g

Interface USB-C

Power Approx. 1.2 W



RTK Positioning Accuracy RTK Fix: Horizontal: 1 cm + 1 ppm; Vertical: 1.5 cm + 1 ppm

Speaker

Dimensions 114.1×82.0×54.7 mm (L×W×H)

Weight 85±2 g

Interface USB-C

Rated Power 3 W

Max Volume 110 dB @ 1 m

Effective Broadcast Distance [11] 100 m @ 70 dB

Bit Rate 16 Kbps/32 Kbps

Operating Temperature Range -10° to 40° C (14° to 104° F)

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

Aircraft – 1nos

Intelligent Flight Battery – 1nos

microSD Card 64GB – 1nos

Gimbal Protector – 1nos

Series Propellers (Pair) – 6nos

RC Pro Enterprise – 1nos

Screwdriver – 1nos

USB-C Power Adapter (100W) – 1nos

100W Power Adaptor AC Cable – 1nos

USB-C Cable – 1nos

USB-C to USB-C Cable – 1nos

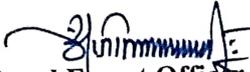
Protector Case – 1nos

RTK Module – 1nos

Battery Kit – 1nos

SanDisk Extreme 512GB V30 A2 microSDXC - 1nos

Card reader for microSD card / SD card – 1nos


Divisional Forest Officer 31/12/2022
Deogarh Forest Division.