



BERHAMPUR UNIVERSITY
BHANJA BIHAR, BERHAMPUR - 760007 ODISHA

No.- 9473 /Purchase/BU/2022

Date: 11/11/2022

SHORT QUOTATION CALL NOTICE

Sealed Quotations are invited from registered firms/authorized suppliers/authorized dealers having IT, PAN and up-to-date GSTN registration for supply of **Drone Camera** for P.G. Department of J&MC, Berhampur University in the firm's pad by **Speed Post/ Registered Post** which should reach the office of the **Registrar, Berhampur University** on or before **Dt-17.11.2022**.

The details regarding terms & conditions and detailed specifications of **Drone Camera** can be obtained from the University Website www.buodisha.edu.in from **Dt-11.11.2022**.

Memo No.- 9474 (8) /Purchase/BU/2022


REGISTRAR
BERHAMPUR UNIVERSITY
P. Palata

Date: 11/11/2022

Copy to:

1. The Comptroller of Finance// The O.I.C, Stores// The Secretary to the Vice-Chancellor// P.A. to the Registrar, Berhampur University for kind information.
2. The Assistant Registrar, Berhampur University for information. He is requested to take steps for publication of **Short Quotation Call Notice** in daily Odia Newspaper "**Sambad**" in All Odisha Edition and in daily English Newspaper "**Times of India**" in All Odisha Edition in one issue only in 8 Pt letter at I & PR Department Government of Odisha **on or before Dt-12.11.2022**.
3. The Web Administrator, University Web site, Dept. of Computer Science, Berhampur University with a request to upload the Short Quotation Call Notice along with enclosures in the University Website for wider information of all concerned **on or before Dt-11.11.2022**.
4. Prof. Ganesh Sethi, Head, P.G. Department of J&MC, Berhampur University for information and necessary action.
5. University Notice Board.

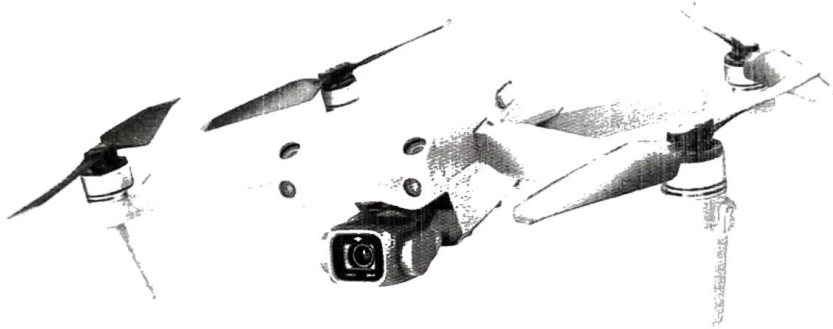
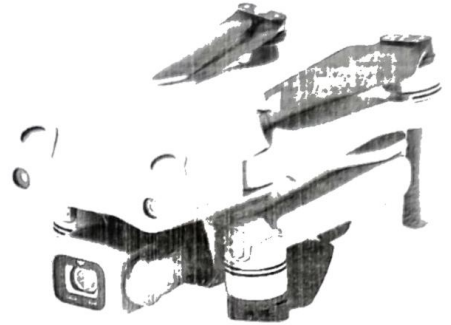
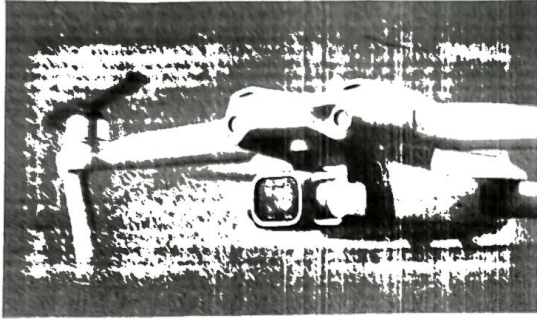

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Terms/ Conditions Details:

1. An amount (Non-refundable) of Rs.2,000/- towards cost of RFP (Request for proposal) be deposited in the shape of SBI DD drawn in favour of the Comptroller of Finance, B.U. payable at SBI, Bhanja Bihar (2107).
2. Deposit of EMD @2% (Refundable) of the estimated value of the goods in the shape of SBI DD drawn in favour of the Comptroller of Finance, B.U. payable at SBI, Bhanja Bihar (2107).
3. The firm shall quote both the Technical Bid consisting of all technical details along with commercial terms & condition and Financial Bid indicating item-wise price per unit as per our specification including all Taxes, Transportation and installation. Technical bid and Financial Bid should place in separate sealed covers duly super scribed each and send the same in a sealed cover super scribed with the Short Quotation Call Notice through **Speed Post /Registered Post** only. Technical bid shall open on the same day at 4:00 P.M. and the eligible bidders will intimate the date for Financial Bid soon after the finalization of Technical Bid.
4. These quotations shall remain in force for the Financial Year 2022-23.
5. Only qualified firms in the Technical Bid will be eligible for Financial Bid.
6. Materials in good condition shall be delivered at the Central Stores, Berhampur University, Bhanja Bihar, Berhampur-760007.
7. In case of imported articles, the selected firm will take necessary steps for exemption of Custom Duty etc. at their own risk.
8. The firm should supply the articles within three weeks from the date of issue of Purchase Order. This can be extended for further four weeks in view of the gravity of the situation.
9. Copy of IT of preceding three financial years, PAN CARD, valid & up-to-date GST Registration Certificate and Audited Financial Statement of preceding three financial years must be enclosed with Quotation paper.
10. Incomplete Quotation in any respect is liable for rejection.
11. The University reserves all the right to modify the contents of the RFP, extension of last date of receipt of Quotation and to accept or reject any /all Quotation in full or in part without assigning any reason thereof.
12. Legal Dispute, if any, shall be the Jurisdiction of Civil Court, Berhampur, District- Ganjam, Odisha,
13. Depending on the urgency of the situation, penalty shall be imposed in case any delay in delivery of Goods and Services.
14. Payment shall be made after necessary verification and successful installation of the equipment. Goods and Service providers cannot claim any penalty or interest in case of delay in Payment caused due to verification of the quality and quantity of the Goods by the competent Technical person of the University.
15. Any query relating to Drone Camera, please contact Officer-in-Charge, Purchase Section, Berhampur University via Mail ID: sunilsunita123@gmail.com


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Drone 1 no



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H.O.D.
JSMC

Specs

Aircrat

- **Takeoff Weight**
 - 595 g
- **Dimensions**
 - Folded:
180×97×77 mm
(length×width×height) Unfolded:
183×253×77 mm (length×width×height)
- **Diagonal Length**
 - 302 mm
- **Max Ascent Speed**
 - 6 m/s (S Mode) 6 m/s
(N Mode)
- **Max Descent Speed**
 - 6 m/s (S Mode)
6 m/s (N Mode)
- **Max Service Ceiling Above Sea Level**
 - 5000 m
- **Max Flight Time (no wind)**
 - 31 minutes
- **Max Hovering Time (no wind)**
 - 30 minutes
- **Max Flight Distance (no wind)**
 - 18.5 km
- **Max Flight Speed (near sea level, no wind)**
 - 19 m/s (S Mode) 15 m/s
(N Mode) 5 m/s
(C Mode)

- **Max Wind Speed Resistance**
 - 10.7 m/s
- **Max Tilt Angle**
 - 35° (S Mode)
Front: 30°, Back: 20°, Left: 35°, Right: 35° (N Mode)
- **Max Angular Velocity**
 - 250°/s (S Mode)
90°/s (N Mode)
60°/s (C Mode)
- **Operating Temperature Range**
 - 0° to 40°C (32° to 104°F)
- **Operating Frequency**
 - 2.4 GHz
5.8 GHz
- **Transmission Power (EIRP)**
 - 2.4 GHz:
FCC: ≤30 dBm
CE: ≤20 dBm
SRRC: ≤20 dBm
MIC: ≤20 dBm
5.8 GHz:
FCC: ≤30 dBm
CE: ≤14 dBm
SRRC: ≤29 dBm
- **Hovering Accuracy Range**
 - Vertical:
± 0.1 m (with vision positioning)
± 0.5 m (with GNSS positioning)
Horizontal:
± 0.1 m (with vision positioning)
± 1.5 m (with GNSS positioning)
- **Propellers**
 - Quick release, low noise, folding

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- **Aircraft Arms**
 - Foldable
- **GNSS**
 - GPS+GLONASS+GALILEO
- **Compass**
 - Single Compass
- **IMU**
 - Single IMU
- **Internal Storage**
 - 8 GB

Intelligent Flight Battery

- **Capacity^[1]**
 - 3750 mAh / 3500 mAh
- **Voltage**
 - 11.04 V / 11.55 V
- **Max Charging Voltage**
 - 12.6 V / 13.2 V
- **Battery Type**
 - LiPo 3S
- **Energy**
 - 41.4 Wh / 40.42 Wh
- **Weight**
 - 198 g
- **Charging Temperature Range**
 - 5° to 40°C (41° to 104°F)
- **Max Charging Power**
 - 38 W
- **Built-in Battery**
 - N/A

Camera

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- **Sensor**

- 1" CMOS
Effective Pixels: 20 MP; 2.4µm Pixel Size

- **Lens**

- FOV: 88°
35 mm Format Equivalent: 22
mm Aperture: f/2.8
Shooting Range: 0.6 m to ∞

- **ISO Range**

- Video:
100-3200 (Auto)
100-6400 (Manual)
10-Bit Dlog-M Video:
100-800 (Auto)
100-1600 (Manual)
Photo:
100-3200 (Auto)
100-12800 (Manual)

- **Still Image Size**

- 20 MP
5472×3648 (3:2)
5472×3078 (16:9)

- **Still Photography Modes**

- Single shot: 20 MP
Burst shooting: 20 MP (continuous burst)
Auto Exposure Bracketing (AEB): 20 MP, 3/5 bracketed frames at 0.7 EV bias
Timed: 20 MP, 2/3/5/7/10/15/20/30/60s
SmartPhoto (including HDR and HyperLight): 20 MP
HDR Panorama¹²:
Vertical (3×1): 3328×8000 (width×height)
Wide-angle (3×3): 8000×6144 (width×height)
180° (3×7): 8192×3500 (width×height)

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Sphere (3×8+1): 8192×4096 (width×height)
JPEG/DNG (RAW)

- **Video Resolution**

- 5.4K: 5472×3078 @ 24/25/30 fps
- 4K Ultra HD: 3840×2160 @ 24/25/30/48/50/60 fps
- 2.7K: 2688×1512 @ 24/25/30/48/50/60 fps
- FHD: 1920×1080 @ 24/25/30/48/50/60/120 fps MP4/MOV (H.264/MPEG-4 AVC, H.265/HEVC)

- **Max Video Bitrate**

- 150 Mbps

- **Supported File System**

- FAT32/exFAT

Supports a microSD card with a capacity of up to 256 GB.

- **Digital Zoom**

- Zoom recording is not available while recording 10-bit videos and 120fps videos.
- 4K/30fps:
4x;
- 2.7K/60fps:
4x;
- 2.7K/30fps:
6x;
- 1080p/60fps:
6x;
- 1080p/30fps:
8x

Gimbal

- **Stabilization**

- 3-axis (tilt, roll, pan)

- **Mechanical Range**

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- Tilt: -135° to 45°

Pan: -100° to 100°

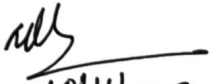
- **Pan Axis**
 - Not Controllable
- **Controllable Range**
 - Tilt: -90° to 0°(default); -90° to 24° (extended)
- **Max Controllable Speed (tilt)**
 - 100°/s
- **Angular Vibration Range**
 - $\pm 0.01^\circ$

Sensing System

- **Forward**
 - Precision Measurement Range: 0.38-23.8 m
 - Effective Sensing Speed: ≤ 15 m/s
 - Field of View (FOV): 72° (horizontal), 58° (vertical)
- **Backward**
 - Precision Measurement Range: 0.37-23.4 m
 - Effective Sensing Speed: ≤ 12 m/s
 - Field of View (FOV): 57° (horizontal), 44° (vertical)
- **Downward**
 - ToF Measurement Range: 0.1-8 m
 - Hovering Range: 0.5-30 m
 - Vision Sensor Hovering Range: 0.5-60 m
- **Left/Right**
 - N/A
- **Upward**
 - Precision Measurement Range: 0.34-28.6 m
 - Field of View (FOV): 63° (horizontal), 78° (vertical)
- **Downward Auxiliary Light**
 - Single LED

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Video Transmission

- **Transmission System**
 - O3
2.4 GHz/5.8 GHz Auto-Switching (compatible with OcuSync 2.0)
4-antenna 2T4R
- **Max Transmission Distance**
 - 12 km (FCC), 8 km (CE) 8 km (SRRC), 8 km (MIC)
- **Live View Quality/Latency**
 - Drone + Remote Controller: 1080p/30fps 12 Mbps 120 ms
Drone + DJI Smart Controller: 1080p/30fps 12Mbps 130 ms
- **Max Transmission Bitrate**
 - 44 Mbps (download
bitrate) 16 Mbps (live
video bitrate)
- **Operating Frequency**
 - 2.4 GHz
5.8 GHz

Remote Controller

- **Multiple Controllers**
 - N/A
- **DJI Smart Controller**
 - Supported

- Lightning, Micro USB, USB-C
- **Max Supported Mobile Device Size**

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- **Operating Temperature**
 - 0° to 40°C (32° to 104°F)
- **Transmitter Power (EIRP)**
 - 2.4 GHz:
 - FCC: ≤26 dBm
 - CE: ≤20 dBm
 - SRRC: ≤20 dBm
 - MIC: ≤20 dBm
 - 5.8 GHz:
 - FCC: ≤26 dBm
 - CE: ≤14 dBm
 - SRRC: ≤26 dBm

Charger

- **Charging Input**
 - 100-240V, 50/60 Hz, 1.3 A
- **Charging Output**
 - Charging Port: 13.2 V □ 2.82 A
 - USB Port: 5 V □ 2 A
- **Voltage**
 - 13.2 V
- **Rated Power**
 - 38 W

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