



## INVITATION TO BID

The Western Mindanao State University, through its Bids and Awards Committee (BAC), is inviting PhilGEPS registered suppliers to apply for eligibility and to submit bids for the item mentioned hereunder:

Name of Project: **Procurement of Drone with Processing Software for the College of Engineering**

Approved Budget Cost: **PHP 550,000.00**

Purchase Request No.: **PR 24-06-283**

Closing Date: **August 13, 2024**

Delivery Period: **Thirty (30) Calendar Days**

Bid Docs: **Php 1,000.00**

1.) One (1) set of DRONE WITH PROCESSING SOFTWARE

### SPECIFICATIONS:

#### DRONE

##### Flight Performance:

- . Flight Time: Up to 45 minutes (under ideal conditions, may vary depending on wind, temperature, and flight mode)
- . Maximum Flight Speed: 23 m/s (Sport Mode) or 12 m/s (Normal Mode)
- . Maximum Wind Speed Resistance: 12 m/s ( Beaufort wind scale 6: Strong Breeze)
- . Operating Temperature: -10° to 40° C (14° to 104° F)
- . Maximum Service Ceiling: 6000 meters above sea level

##### Camera System:

##### Focuses on the Wide Camera:

- . Sensor: Micro Four Thirds (MFT) CMOS sensor
- . Resolution: 20MP photos, 5.1K video @ 50fps
- . Lens: FOV 84°, 24mm equivalent focal length, f/2.8-f/11 aperture (ideal for capturing large areas in detail)

##### Telephoto Camera:

- . Resolution: 12MP photos, 4K video @ 30fps
- . Lens: FOV 15°, 162mm equivalent focal length (with 56x hybrid zoom) 3-axis Mechanical Gimbal for stabilized footage

##### Payload:

- . RTK Module (Highly Recommended): Enables centimeter-level positioning accuracy, crucial for precise mapping applications.

##### Other Features:

- . Obstacle Avoidance System: Ensures safe flight during mapping missions.
- . Return to Home (RTH) Functionality: Allows the drone to return to its home point for safe retrieval.
- . Geofencing Capabilities: For planning and restricting flight paths during mapping operations
- . Reliable Transmission System: Offers a long range for maintaining a reliable connection while mapping large areas
- . Remote Controller Included: RC with a built-in display for live video feed and flight controls.
- . Carrying case Included

##### Storage

- Supported Memory Cards: Remote Controller: at least 128GB V30 A2 microSDXC

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##### Battery

- Capacity: 5000 mAh
- Standard Voltage: 4V
- Max Charging Voltage: 6V



- Type: LiPo 4S
- Chemical System: LiCoO<sub>2</sub>
- Energy: 77 Wh
- Charger
- = Output: 100 W V (AC Power), 50-60 Hz, 2.5 A
- 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

#### GIS and Drone Processing Software

- Single User Node-Locked License - written to single computer only.
- Features:
  - Supports for importing and exporting 300+ file formats.
  - Pixel to Point - Drone/UAV imagery processing to create 3D point clouds, orthoimage and 3D model.
  - Advances querying, editing, segmenting, and filtering of 3D point clouds
- Automatic classification of point cloud data including ground, vegetation, buildings, power lines and poles.
- Visual analysis of point cloud data, including by local density, height above ground, intensity, and classification.
- Access to online data sources for streaming imagery, base maps, terrain, and vector data.
- Vector drawing, editing, analysis and spatial operations.
- Terrain analysis, including contour generation.
- Map design and pre-print layout.
- Immersive 3D visualization and fly-through recording

The criteria to be used for the eligibility check of the prospective bidders, examination and evaluation of bids, post-qualification and all matters relevant to this procurement shall be in accordance with Republic Act. No. 9184 (The Government Procurement Reform Act) and its Implementing Rules and Regulations.

Interested bidders may obtain further information from WMSU BAC Secretariat regarding the checklist of eligibility and technical requirements.

#### IMPORTANT NOTICE FOR BIDDERS:

1. Bidding papers may be acquired starting July 23, 2024 until August 13, 2024, from the BAC Office or download from website ([www.wmsu.edu.ph](http://www.wmsu.edu.ph)). The WESTERN MINDANAO STATE UNIVERSITY shall allow the bidder to present its proof of payment for the Bidding Documents fees before the submission of their bids, pursuant to the latest Guidelines issued by the GPPB, in the amount of One Thousand Pesos (Php.1,000.00). (Please attached the machine copy of the Official Receipt)
2. All bidders are required to post a Bid Security, at least Two (2%) Percent of the ABC in the form of Cash, Cashier's Check or Manager's Check or may submit Bid Securing Declaration. Bids without Bid Security will not be considered.
3. The Bidder shall prepare an original of the Eligibility Documents & Technical Components and original of Financial Proposal and clearly mark each "ORIGINAL – ELIGIBILITY DOCUMENTS and TECHNICAL COMPONENTS", and "ORIGINAL – FINANCIAL PROPOSAL", respectively. Bidders shall submit one (1) set of the first and second components of its bid. State the unit price of each item and the total bid price and also state the shortest time of delivery and submit your quotation duly signed by your representative in a sealed envelope.
4. Pre-Bid Conference will be on July 31, 2024, 9:30 AM at BAC Office for Goods, WMSU, 2nd Floor Administration Building, Zamboanga City and/or through video conferencing or



webcasting via Zoom, which shall be open to prospective bidders.

5. Bid Submission will be on or before August 13, 2024 at 9:30 A.M. through Manual Submission.
6. Bid opening shall be on August 13 at 9:30 A.M. at BAC Office, 2nd Floor Administration Building, WMSU, Zamboanga City, Philippines, 7000. Bids will be opened in the presence of the Bidders representatives who choose to attend at the address above. Late bids shall not be accepted.
7. Price validity shall be for a period of 120 calendar days.
8. Bidders shall submit original brochures showing certifications of the product being offered.
9. Warranty shall be for a period of Six (6) months for supplies and materials. One (1) year for equipment, from date of acceptance by WESTERN MINDANAO STATE UNIVERSITY.
10. Bids received in excess of the ABC shall be automatically rejected at Bid Opening.

The WESTERN MINDANAO STATE UNIVERSITY reserves the right to reject any or all Bids and to accept the bid most advantageous to the government, and to award the contract by lot, if warranted.