



UNIVERSITY OF THE PHILIPPINES  
LOS BANOS  
Los Banos, IV-A  
VAT Reg. TIN: 000-864-006-00004

Request for Quotation/Bid Form (Technical Specifications)  
OFFICE OF THE COORDINATOR FOR RESEARCH, EXTENSION AND LINKAGES (CFNR)

UPLB BAC SECRETARIAT  
BY: Ony DATE: 8.19.24

AUG 23 2024 6:06 AM

UPLB RQ- 8-340-24 des  
DEADLINE OF SUBMISSION  
SUBMISSION:

Suppliers Name: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Date: August 14, 2024  
Fund Code: N92982A  
MOP: NP- 53.9 Small Value Procurement  
Contact No: 099840445654/acluna@up.edu.ph  
Contact: For. Amelita C. Luna

PR # 169443

Please quote your lowest price on the item/s listed below, subject to the General Conditions below.

Note:

1. Bidders shall provide correct and accurate information required in this form. All entries must be typewritten or in print and properly accomplished. Do not leave blank entries.
2. Price quotation/s to be denominated in Philippine Peso shall include all taxes, duties, and/or levies payable.
3. Bidders must indicate the BRAND and MODEL NUMBER for equipment and its accessories or peripherals. Evidence shall be in the form of manufacturer's un-amended sale literature, unconditional statement of specification and compliance issued by the manufacturer and sample.
4. Quotation through fax/email is acceptable. Winning bidder shall submit original signed RQ before issuance of Purchase order (P.O.).
5. Quotations exceeding the Approved Budget for Contract shall be rejected.
6. Documentary requirements per Memorandum No. 03 Series of 2017 shall be attached upon submission of the quotation
7. Others: \_\_\_\_\_

ITEM No.	GENERAL NAME OF THE ITEM	REQUIRED SPECIFICATIONS	UNIT OF MEASURE	QTY	ESTIMATED UNIT APPROVED BUDGET OF THE CONTRACT	ESTIMATED TOTAL APPROVED BUDGET OF THE CONTRACT	OFFERED SPECIFICATION Suppliers must state here the detailed technical specifications of their offer against each of the individual parameters of each requirements	QUOTED UNIT PRICE	TOTAL QUOTED PRICE	EVALUATION (Leave this space blank. For BAC/Evaluators only)
1	Drone with Camera	Branded and Brand New Aircraft •Takeoff Weight •< 249 g Dimensions (Approx) •Folded (without propellers): 148×94×64 mm (L×W×H) Unfolded (with propellers): 298×373×101 mm (L×W×H) •Max Ascent Speed •5 m/s (S Mode) 5 m/s (N Mode) 3 m/s (C Mode) •Max Descent Speed •5 m/s (S Mode) 5 m/s (N Mode) 3 m/s (C Mode) •Max Horizontal Speed (at sea level, no wind) •16 m/s (S Mode) 12 m/s (N Mode) 12 m/s (C Mode)  •Max Takeoff Altitude •With Intelligent Flight Battery: 4000 m With Mini 3 Series Intelligent Flight Battery Plus*: 3000 m  •Max Flight Time •34 minutes (with Intelligent Flight Battery) 45 minutes (with Intelligent Flight Battery Plus)*  •Max Hovering Time •30 minutes (with Intelligent Flight Battery) 39 minutes (with Intelligent Flight Battery Plus)*  •Max Flight Distance •18 km (with Intelligent Flight Battery and measured while flying at 40.7 kph in a windless environment at 20 meters above sea level) 25 km (with Intelligent Flight Battery Plus* and measured while flying at 44.3 kph in a windless environment at 20 meters above sea level)  •Max Wind Speed Resistance •10.7 m/s •Max Pitch Angle •35° •Operating Temperature •-10° to 40° C (14° to 104° F) •Global Navigation Satellite System •GPS + Galileo + BeiDou •Hovering Accuracy Range (windless or breezy) •Vertical: ±0.1 m (with vision positioning) ±0.5 m (with GNSS positioning) Horizontal: ±0.1 m (with vision positioning) ±0.5 m (with GNSS positioning)	PC MRA	1	70,000.00	70,000.00				

- Internal Storage
- 2 GB
- Camera
- Image Sensor
- 1/1.3-inch CMOS, Effective Pixels: 48 MP
- Lens
- FOV: 82.1°
- Format Equivalent: 24 mm
- Aperture: f/1.7
- Focus: 1 m to ∞
- ISO Range
- Video
- Normal and Slow Motion:
- 100-6400 (Normal)
- 100-1600 (D-Log M)
- 100-1600 (HLG)
- Night:
- 100-12800 (Normal)
- Photo
- 12 MP: 100-6400
- 48 MP: 100-3200
- Shutter Speed
- 12MP Photo: 1/16000-2 s (2.5-8 s for simulated long exposure)
- 48MP Photo: 1/8000-2 s
- Max Image Size
- 8064×6048
- Still Photography Modes
- Single Shot: 12 MP and 48 MP
- Burst Shooting:
- 12 MP, 3/5/7 frames
- 48 MP, 3/5 frames
- Automatic Exposure Bracketing (AEB):
- 12 MP, 3/5/7 frames at 0.7 EV step
- 48 MP, 3/5 frames at 0.7 EV step
- Timed:
- 12 MP, 2/3/5/7/10/15/20/30/60s
- 48 MP, 5/7/10/15/20/30/60s
- Photo Format
- JPEG/DNG (RAW)
- Video Resolution
- H.264/H.265
- 4K:
- 3840×2160@24/25/30/48/50/60/100\*fps
- FHD:
- 1920×1080@24/25/30/48/50/60/100\*200\*fps
- Video Format
- MP4 (MPEG-4 AVC/H.264, HEVC/H.265)
- Max Video Bitrate
- H.264/H.265: 150 Mbps
- Supported File System
- exFAT
- Color Mode and Sampling Method
- Normal:
- 8-bit 4:2:0 (H.264/H.265)
- HLG/D-Log M:
- 10-bit 4:2:0 (H.265)
- Digital Zoom
- 12MP Photo: 1-3x
- 4K: 1-3x
- FHD: 1-4x
- Gimbal
- Stabilization
- 3-axis mechanical gimbal (tilt, roll, pan)
- Mechanical Range
- Tilt: -135° to 80°
- Roll: -135° to 45°
- Pan: -30° to 30°
- Controllable Range
- Tilt: -90° to 60°
- Roll: -90° or 0°
- Max Control Speed (tilt)
- 100°/s
- Angular Vibration Range
- ±0.01°
- Sensing
- Sensing Type
- Omnidirectional binocular vision system, supplemented with a 3D infrared sensor at the bottom of the aircraft
- Forward
- Measurement Range: 0.5-18 m
- Detection Range: 0.5-200 m
- Effective Sensing Speed: Flight Speed ≤ 12 m/s
- FOV: Horizontal 90°, Vertical 72°
- Backward
- Measurement Range: 0.5-15 m
- Effective Sensing Speed: Flight Speed ≤ 12 m/s
- FOV: Horizontal 90°, Vertical 72°
- Lateral
- Measurement Range: 0.5-12 m
- Effective Sensing Speed: Flight Speed ≤ 12 m/s
- FOV: Horizontal 90°, Vertical 72°
- Upward
- Measurement Range: 0.5-15 m
- Effective Sensing Speed: Flight Speed ≤ 5 m/s

FOV: Front and Back 72°, Left and Right 90°


- Downward
- Measurement Range: 0.3-12 m
- Effective Sensing Speed: Flight Speed ≤ 5 m/s
- FOV: Front and Back 106°, Left and Right 90°
- Operating Environment
- Forward, Backward, Left, Right, and Upward:
- Surfaces with discernible patterns and adequate lighting (lux > 15)
- Downward:
- Surfaces with discernible patterns, diffuse reflectivity > 20% (e.g. walls, trees, people), and adequate lighting (lux > 15)
- 3D Infrared Sensor
- Measurement Range: 0.1-8 m (reflectivity > 10%)
- FOV: Front and Back 60°, Left and Right 60°
- Video Transmission
- Video Transmission System
- O4
- Live View Quality
- Remote Controller:
- Up to 1080p/60fps (available when the aircraft is flying in Photo or Video mode)
- Up to 1080p/30fps (available when the aircraft is flying in Video mode)
- Up to 1080p/24fps (available when the aircraft is in standby mode on the ground)
- Operating Frequency
- 2.4000-2.4835 GHz
- 5.170-5.250 GHz
- 5.725-5.850 GHz
- Transmitter Power (EIRP)
- 2.4 GHz:
- < 33 dBm (FCC)
- < 20 dBm (CE/SRRC/MIC)
- 5.1 GHz:
- < 23 dBm (CE)
- 5.8 GHz:
- < 33 dBm (FCC)
- < 30 dBm (SRRC)
- < 14 dBm (CE)
- Max Transmission Distance (unobstructed, free of interference)
- FCC: 20 km
- CE: 10 km
- SRRC: 10 km
- MIC: 10 km
- Max Transmission Distance (unobstructed, with interference)
- Strong Interference: urban landscape, approx. 1.5-4 km
- Medium Interference: suburban landscape, approx. 4-10 km
- Low Interference: suburb/seaside, approx. 10-20 km
- Max Transmission Distance (obstructed, with interference)
- Low Interference and Obstructed by Buildings: approx. 0-0.5 km
- Low Interference and Obstructed by Trees: approx. 0.5-3 km
- Max Download Speed
- O4:
- 10 MB/s (with RC-N2)
- 10 MB/s (with RC 2)
- Wi-Fi 5: 30 MB/s\*
- Lowest Latency
- Aircraft + Remote Controller: approx. 120 ms
- Antenna
- 4 antennas, 2T4R





•Supported mobile Device Port type •Lightning, USB-C, Micro-USB  •Video Transmission Operating Frequency •2.4000-2.4835 GHz 5.170-5.250 GHz 5.725-5.850 GHz •Transmitter Power (EIRP) •2.4 GHz: < 33 dBm (FCC) < 20 dBm (CE/SRRC/MIC)  5.1 GHz: < 23 dBm (CE)  5.8 GHz: < 33 dBm (FCC) < 14 dBm (CE) < 30 dBm (SRRC)  With at least 1-year warranty on parts and services. Delivery period: Within 30 Calendar Days upon receipt of Notice to Proceed								
<b>TOTAL ABC</b>				<b>70,000.00</b>				
				<b>TOTAL QUOTED AMOUNT IN WORDS:</b>				

Reviewed and Checked By:

  
**ARIEL U. GLORIOSO**  
 BAC TWG

Please quote at your government price (including VAT) and state that the time within which you can make delivery. It will be appreciated if we can have your quotation in the office as soon as possible on or before the deadline stated herein.

  
**AMELITA C. LUNA**  
 BUYER/END-USER

**TERMS AND CONDITIONS:**

- Price quotation/s shall be valid for a period of at least (30) calendar days from the date of submission.
- In order to assure that manufacturing defects shall be corrected by supplier, a warranty security shall be required from the contract awardee for a minimum period of **three (3) months**, in the case of EXPENDABLE SUPPLIES, or a **minimum of one (1) year warranty and two (2) to three (3) years extended warranty (if applicable)** in the case of NON-EXPENDABLE SUPPLIES after acceptance by End-user of the delivered supplies.
- Delivery period within 30 calendar days.
- Award of contract shall be made to the lowest quotation which complies with the technical specifications, and other terms and condition stated herein
- UPLB reserves the right to reject any or all offers as may be considered most advantageous to the University.
- Any interlineations, erasure, or overwriting shall be valid only if they are signed or initiated by you or any of your duly authorized representative/s.

**Requirements for Suppliers (GPPB Resolution No. 21-2017)**

REQUIREMENTS	Shopping (Section 52)	Negotiated Procurement- Small Value Procurement	Negotiated Procurement- Lease of Real Property or	Negotiated Procurement- Scientific, Scholarly or Artistic Work, Exclusive Technology and Media	Negotiated Procurement- Emergency
1 Mayor's/Business Permit	/	/	/	/	/
2 PhilGEPS Registration Number	/	/	/	/	/
3 Professional license/ CV (consulting services)	/	/	/	/	/
4 PCAB License (for Infrastructure)	/	/	/	/	/
5 Income / Business tax returns (except for government agencies as lessor)		FOR ABC'S ABOVE 500K	/	/	FOR ABC'S ABOVE
6 Omnibus Sworn Statement		FOR ABC'S ABOVE 50K			FOR ABC'S ABOVE
7 NFCC for Infrastructure with ABC above Ph500k		/			FOR ABC'S ABOVE

**After having carefully read and accepted your General Conditions, I/We quote you on the Item at prices noted above.**

Name of the Company: \_\_\_\_\_

Address: \_\_\_\_\_

Tel. No. : \_\_\_\_\_

Fax No. : \_\_\_\_\_

Signature over  
Printed Name of  
Representative: \_\_\_\_\_

Email Address: \_\_\_\_\_

Position: \_\_\_\_\_

Date: \_\_\_\_\_