



INVITATION TO BID

PROCUREMENT OF SUPPLY AND DELIVERY OF UNMANNED AERIAL SYSTEM INCLUSIVE OF TRAINING AND AFTER SALES SERVICE

1. The **Department of Agriculture-Western Visayas**, through the **General Appropriations Act of 2021** intends to apply the sum of **Three Million Eight Hundred Thousand Pesos (Php 3,800,000.00)** being the ABC to payments under the contract for **Procurement of Supply and Delivery of Unmanned Aerial System inclusive of Training and After Sales Service/IB No. 2022-047(AMV)**.

Bids received in excess of the ABC shall be automatically rejected at bid opening.

2. The **Department of Agriculture-Western Visayas** now invites bids for the **Procurement of Supply and Delivery of Unmanned Aerial System inclusive of Training and After Sales Service** with the following specifications:

A. Two (2) Units 2-in-1 Multi-Rotor UAV (Spraying and Sowing)

i. Aircraft

- Weight: minimum of 25kg to 27kg
- Tank Capacity: minimum of 20L-30L Payload
- Minimum of Six (6) Rotors
- Efficiency/hour: at least 8-16ha/hour
- Speed limit: at least 2 to 10 m/s
- Spray Width: at least 4-9m
- Flowrate: at least 4-5L/minute
- Applicable materials:
 - Sprayer: liquid materials and wettable/soluble powder
 - Spreader: solid dry particles with minimum of 0.5 to 5mm diameter
- Battery: minimum of 20,000-29,000 mAh
- Battery Charging: complete charging in 9 to 12 minutes

ii. Obstacle Avoidance Radar with FPV Camera x

iii. With RTK and Terrain following Module

iv. Smart RC Controller

v. Two (2) pcs. Extra Intelligent Charger

vi. Inclusive of 1-week Training for 2 persons/team by the manufacturer recognized Training Partner

B. Six (6) Units Quadcopter UAV for Video Documentation (Rapid Deployment)

- i. Aircraft**
 - Weight (Battery and Propellers included): 595g minimum
 - Max Speed:
 - Ascent: at least 6 m/s
 - Descent: at least 6 m/s
 - Max Takeoff Altitude: at least 5000m
 - Max Flight Time: Approx. 31 minutes minimum
 - GPS Mode: GPS+GLONASS+GALILEO
- ii. Gimbal**
 - Controllable range: Pitch: -90° to +24°
 - Stabilization: 3-axis (tilt, roll, pan)
- iii. Camera**
 - Sensor: 1" CMOS, Effective pixels: 20MP
 - Lens: FOV 84° 22 mm (35mm format equivalent) f/2.8-f/11 auto focus at 0.6 m-∞
 - Image Max Size: 5472x3648
 - Photo: JPEG, DNG (RAW), JPEG + DNG
 - Video: MP4/MOV (AVC/H.264; HEVC/H.265)
 - Supported SD Card Types: Micro SD Max Capacity: 128 GB, Class 10
- iv. Remote Controller**
 - Max Transmission Distance: FCC Compliant: 12km; CE Complaint: 8km
 - Transmitter Power (EIRP): FCC: ≤26 dBm; CE: ≤20 dBm
- v. Battery Charger**
 - Battery: minimum of 3750 mAh, LiPo 3S
 - Charging Voltage Limit: 13.2 V
 - Rated Power: 38 W
- vi. With at least 4-way Obstacle Sensing**
- vii. Intelligent Flight View Software**
- viii. Multi-Function Back Pack**
- ix. Two (2) pcs. Extra Intelligent Flight Battery**

C. One (1) Unit Ground Control Laptop

- CPU: Intel Core i7-11800H
- Memory: at least 16GB RAM Memory
- Storage 1: at least 1TB PCIe M.2 SSD
- Storage 2: Open Slot M.2 2242
- Graphics: RTX 3070 GDDR6 8GB
- Screen Size: 15.6"
- Panel: IPS
- Resolution: Full HD
- Refresh Rate: 165Hz
- Battery: 4 Cell 60Wh
- Special Ft.: Wifi 6
- OS: Windows 11 Home SL
- With Microsoft Office
- With complete accessories for UAV Flight
- With Mission Planner Software

Additional Requirements:

1. Supplier must have an active CAAP Operator Certificate for operating a drone business.
2. Supplier must be an authorized dealer and recognized training partner of the manufacturer.
3. Supplier must provide training on the use and deployment of the multipurpose drone (1 team per set)

4. Supplier must provide assistance for the acquisition of UAV Controller certificate and/or registration from CAAP
5. Supplier must have at least two (2) years of experience on the use of drones for agriculture purposes and must present a hardcopy of a manual on the use of drones for agriculture in the Philippines.
6. Must have experience in supporting and maintaining drones used in agriculture within the last two (2) years.

Delivery of the Goods is required within **30 calendar days** from receipt of Notice to Commence and to be delivered in **DA Operations Building, BPI Compound, Pepita Aquino Avenue, Concepcion, Iloilo City**.

Bidders should have completed, within **three (3) years (2019-2021)** from the date of submission and receipt of bids, a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).

3. Bidding will be conducted through open competitive bidding procedures using a non-discretionary “*pass/fail*” criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.

Bidding is restricted to Filipino citizens/sole proprietorships, partnerships, or organizations with at least sixty percent (60%) interest or outstanding capital stock belonging to citizens of the Philippines, and to citizens or organizations of a country the laws or regulations of which grant similar rights or privileges to Filipino citizens, pursuant to RA No. 5183.

The prospective Bidder must be registered in the PhilGEPS.

4. Prospective Bidders may obtain further information from **Department of Agriculture - Visayas** and inspect the Bidding Documents at the address given below during office hours, **8:00 a.m. to 5:00 p.m.**
5. A complete set of Bidding Documents may be acquired by interested Bidders on **July 15 – August 05, 2022** from the given address and website(s) below and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of **Five Thousand Pesos (Php 5,000.00)**. The Procuring Entity shall allow the bidder to present its proof of payment for the fees to be presented **in person**.
6. The **Department of Agriculture-Western Visayas** will hold a Pre-Bid Conference¹ at **1:00 p.m. on July 22, 2022** at the **RCPC Library, RCPC Building, DA WESVIARC Compound, Brgy. Buntatala, Jaro, Iloilo City**, which shall be open to prospective bidders.
7. Bids must be duly received by the BAC Secretariat through **manual** submission at the office address indicated below or **online or electronic** (pdf file) submission as indicated below, on or before **1:00 p.m. on August 05, 2022**. Late bids shall not be accepted.
8. All Bids must be accompanied by a Bid Securing Declaration **or** Bid Security in the amount of any of the acceptable forms and in the amount of **Php 76,000.00** (if the bid security is in the form of cash, cashier’s/manager’s check, bank draft/guarantee or irrevocable letter of credit) **or** **Php 190,000.00** (if the bid security is in the form of surety bond).

In lieu of a bid security, the bidder may submit a duly notarized **Bid Securing Declaration** that is an undertaking which states, among others, that the bidder shall enter into contract

¹ May be deleted in case the ABC is less than One Million Pesos (PhP1,000,000) where the Procuring Entity may not hold a Pre-Bid Conference.

with the procuring entity and furnish the required performance security within 10 calendar days from receipt of the notice of award, and committing to pay the corresponding fine and be suspended for a period of time from being qualified to participate in any government procurement activity in the event that it violates any of the conditions stated therein as required in the guidelines issued by the GPPB.

9. Bid opening shall be at **1:00 p.m.** on **August 05, 2022** at the given address below. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.
10. The **Department of Agriculture - Western Visayas** reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised IRR of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.
11. The **Department of Agriculture** does not condone any forms of solicitation on any prospective winning and losing bidders by any of our staff/employees or any other party. Any sort of this kind shall be reported immediately to the Office of the Secretary or the National Bureau of Investigation (NBI) for entrapment and proper investigation.
12. For further information, please refer to:

Dr. Peter S. Sobrevega
BAC Chairperson
DA-WESVIARC Compound
Brgy. Buntatala, Jaro
Iloilo City
Tel. No. (033) 329-09-56
Fax No. (033) 320-94-69
www.westernvisayas.da.gov.ph
dareg6bac@yahoo.com

13. You may visit the following websites:

For downloading of Bidding Documents: **PhilGEPS**

For online bid submission: **dareg6bac@yahoo.com**

July 15, 2022

Dr. Peter S. Sobrevega
BAC Chairperson