



BIDS AND AWARDS COMMITTEE

BID BULLETIN No. 1

JULY 15, 2022

- 1. Supply and Delivery of Drone Seeder (Multi-Purpose: Spray & Spread) for use of drone seeding under RICE Program 2022.**
- 2. Supply, Delivery and Installment of Furnitures & Fixture of Crop Research Building/Rice R&D Center**

This Bid Bulletin is issued to clarify, modify or amend items in the Bidding Documents. Accordingly, this shall form an integral part of the said Documents.

- 1. Supply and Delivery of Drone Seeder (Multi-Purpose: Spray & Spread) for use of drone seeding under RICE Program 2022.**

Particulars	Clarifications/Additional Specifications
<p>Specifications:</p> <ul style="list-style-type: none"> *Spraying Payload: 30L / Spreader System: 40kg, 50% higher flow *Efficiency: 16 hectares/hour *9-meter spraying width 8L per minute flow rate, speed of 6.5m/s, droplet density -20/cm³, and dosage of 1L *Radar: Spherical Omnidirectional, all weather, all environment, smart obstacle avoidance *Dual FPV with searchlights/ Top view radar with IP67 Protection *Remote Control Planning Accuracy: GNSS/RTK *26.4kg total weight without batteries/76.5kg max takeoff weight *Smart Controller 3.0 specs: <ul style="list-style-type: none"> -5km Stable image transmission with 67% greater communication range -Ultra long battery life -Standard RTK Positioning Module - 5.5" 1920x1080 screen with Android OS -4GB LPDDR4 32GB ROM and up to 128GB expandable storage -5000MAH internal + 4920MAH external battery with smart charger 	<p>Additional Specifications:</p> <ul style="list-style-type: none"> * IPAD Specifications: Compatible with the Drone Battery type: Li-Po 4490 mAh, non-removable (16.7 Wh) Internal: 8GB RAM, 512GB storage *PHANTOM4 PRO Specifications: -Compatible with Drone Seeder -Aircraft: <ul style="list-style-type: none"> • Weight (Battery & Propeller Included) – 1375g • Diagonal Size (propellers Excluded) – 350 mm • Max Service Ceiling Above Sea Level – 19685 ft (6000m) • Max Wind Speed Resistance: 10m/s • Max Flight Time: Approx. 30 min. • Satellite Positioning System: GPS/GLONASS -GIMBAL <ul style="list-style-type: none"> • Stabilization: 3 axis (pitch,roll,yaw) • Max Controllable Angular Speed: Pitch: 90°/s • Controllable Range : Pitch: 90° to +30° • Angular Vibration Range: ±0.02° -VISION SYSTEM <ul style="list-style-type: none"> • Velocity Range: ≤31 mph (50 kph) at 6.6 ft (2 m) above ground



***Intelligent Flight Battery x2 specs:**

- Ultra long Service life of 1,000 cycles
- 29,000mAh 51.8V, 11.5C discharge rate
- IP54 with board-level potting protection

***Smart charging manager specs:**

- 100-264 VAC input/50-60V DC output
- 7,200W, 120A charging current, 9-12 minutes charging time
- Over-temperature, over-voltage, under-voltage, short-circuit, and fan stall protection
- AC wire, power wire, and charge connector protection
- CAAP Drone registration and professional training for 4 staff.

*Provided with Reflectorized DA Logo

Processing Equipments

One unit Desktop

Operating System: Windows 11 Home, 64bit

Processor: Core i7

Maximum Memory: 16GB

Memory Technology: DDR4SDRAM

Display: Latest NVIDIA GE FORCE GRTX 1650Ti, with 24" Monitor

Memory: 1 TB

Screen Mode: Full HD

Interfaces/Ports: HDMI

Number of USB 3.2 Gen 2 type-A Ports : 4

With keyboard and Mouse

With Camera

With UPS

- Altitude Range: 0-33 ft (0-10 m)
- Operating Range: 0-33 ft (0-10 m)
- Obstacle Sensory Range: 2-98 ft (0.7-30 m)
- Operating Environment: Surface with clear pattern and adequate lighting (lux>15)

-INFRARED SENSING SYSTEM

- Obstacle Sensory Range: 0.6-23 feet (0.2-7 m)
- FOV: 70° (Horizontal), ±10° (Vertical)
- Measuring Frequency: 10Hz
- Operating Environment: Surface with diffuse reflection material, and reflectivity > 8% (such as wall, trees, humans, etc.)

-CAMERA

- Sensor: 1-inch CMOS, Effective pixels: 20M
- Lens : FOV 84° 8.8 mm/24mm (35mm format equivalent) f/2.8-f/11 auto focus at 1m- ∞
- Supported File Systems: FAT32(≤32GB); exFAT(>32GB)
- Supported SD Cards: MicroSD, Max Capacity: 128GB

-REMOTE CONTROLLER:

- Operating Frequency: 2.400-2.483 GHz and 5.725-5.850 GHz
- Battery: 6000 mAh LiPo 2S
- Video Output Port: GL300K: HDMI, GL300L: USB
- Mobile Device Holder: GL300K: Built-in display device (5.5-inch screen, 1920×1080, 1000 cd/m², Android system, 4 GB RAM+16 GB ROM) , GL300L: Tablets and smart phones

-CHARGER

- Voltage – 17.4V
- Rated Power: 100W

-INTELLIGENT FLIGHT BATTERY:

- Capacity – 5870mAh, Voltage : 15.2 V
- Battery Type: LiPo 4S

-APP LIVE VIEW

- Mobile App
- Live View Working Frequency: 2.4 GHz ISM, 5.8 GHz ISM
- Live View Quality: 720P @ 30fps, 1080P @ 30fps



Department of Agriculture
Regional Field Office No. 5
 San Agustin, Pili, Camarines Sur

2. Supply, Delivery and Installment of Furnitures & Fixture of Crop Research Building/Rice R&D Center

Particulars	Clarifications/Additional Specifications
<p>II. CONFERENCE HALL 24 sets – Executive Table</p>	<p>Clarifications:</p> <ul style="list-style-type: none"> • Mobile pedestal in workstation for 6 pax and 2 pax is not included in the budget. • The thickness indicated in plan was 45mm, 60mm offered by the supplier is better if the budget will not short. • The cabinets for executive table are made of melamine wood as per plan. • The office will provide floor plan. • Workstation – L Shape panel thickness is as is to 4.68 cm <p>Clarifications on the Office Cubicle/Work Station for 6 pax:</p> <p>Specifications:</p> <ul style="list-style-type: none"> • Partition Aluminum Trims in 45mm thick customized powder coated finish • Partition panel in 2 tone fabric finish in (3) 1200mm L x 1200mm Ht) • Partition Panel in Fabric + 300mm Ht froested strip glass finish in (8) 600mm L x 1200mmHt <p>II. CONFERENCE HALL 24 sets – Executive Chair</p>

For guidance and information of all concerned.


ENGR. TEODORO C. ELEDA
 Engineer IV
 BAC Vice Chairperson 