



REPUBLIC OF THE PHILIPPINES

DEPARTMENT OF AGRICULTURE

**PHILIPPINE COCONUT AUTHORITY**

Regional Government Center, Brgy. Balintawak, Pagadian City, Zamboanga del Sur

Telefax No.: (062) 925-1918

[regionix@pca.gov.ph](mailto:regionix@pca.gov.ph)

### Bids and Awards Committee

The Philippine Coconut Authority (PCA), through its Bids and Awards Committee (BAC), as duly authorized to conduct **Small Value Procurement (SVP)** for the items stated below, in accordance with **Section 53.9 Small Value Procurement** of the Revised Implementing Rules and Regulations of the Republic Act. No. 9184, hereby invites all interested suppliers/bidders to offer their lowest government price.

The PCA, hereinafter referred to as “the Purchaser”, now requests submission of a price quotation for the subject below:

Item No.	Article and Descriptions	Quantity	Unit Price (PhP)	Approved Budget for the Contract (ABC) – (PhP)	Bid Docs Fee (PhP)
<b>01</b>	<b>Supply and Delivery of Unmanned Aerial Vehicle (Drone)</b> <ul style="list-style-type: none"><li>- Inclusive of training/orientation and testing of product functionality</li><li>- Drone &amp; Tablet Specification (Attachment 3)</li></ul>	One (1) set	200,000.00	200,000.00	100.00

Interested suppliers are required to submit the following documents:

1. Valid and current Mayor's/Business Permit
2. PhilGEPS Registration Number
3. Latest Income/Business Tax Return
4. Omnibus Sworn Statement (attachment 2)

PCA Condition of Sale:

1. Delivery Schedule: 7 calendars days from the receipt of the approved PO/NTP
2. Bid Validity: 60 calendar days from the submission of bids
3. Delivery site as follows: **Philippine Coconut Authority Regional Office IX, Regional Government center, Balintawak, Pagadian City, Zamboanga del Sur.**

Award of contract shall be made to the bidder with the lowest quotation for the subject goods which comply with the minimum technical specifications and other terms and conditions stated herein.

Any alteration, erasures, or overwriting shall be valid only if they are signed or initialed by the bidder or his/her duly authorized representative.

A complete set of Bidding Documents may be purchased by interested Bidders on from the address below and upon payment of a non-refundable fee as indicated above, pursuant to the latest guidelines issued by the GPPB. It may also be downloaded free of charge from the website of PhilGEPS provided that bidders shall pay the non-refundable price.

The complete schedule of bidding activities is as follows:

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Sale and Issuance of Bid Documents	- December 14 –December 21, 2022
Submission of Price Quotation	- December 21, 2022; 8:30 AM
Opening of Bids/Bid Evaluation	- December 21, 2022; 9:00 AM

Submission of duly signed price quotation form (attachment 1) and eligibility documents is not later than 8:30am of December 21, 2022 at the PCA Regional Office IX, Regional Government Center, Brgy. Balintawak, Pagadian City. Open submission may be done manually, email ([regionix@pca.gov.ph](mailto:regionix@pca.gov.ph)) or thru Facsimile No. (062) 925-1918.

The penalty for the late deliveries is one tenth (1/10) of one (1) percent of the cost of the unperformed portion for every day of delay. The maximum deduction shall be ten percent (10%) of the contract price. Once the cumulative amount of the liquidated damage reaches ten percent (10%) of the contract price, the procuring entity shall rescind the contract without prejudice to other courses of action and remedies open to it.

The PCA reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract in accordance with Section 41 or RA 9184 and its IRR, without thereby incurring any liability to the affected bidder or bidders.

For further information, please refer to:

**JUNRIE B. BERADIO**

BAC Secretariat

PCA Region IX

Pagadian City, Zamboanga del Sur

Mobile No. 0997-654-9395

Tel. No. (062) 925-1918

**BIHILDIS A. QUEZON**

BAC Chairwoman

PCA Region IX

Sta. Isabel, Dipolog City

Tel. No. (065) 908-0922

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Attachment 1

**PRICE QUOTATION FORM**

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

**The Bids and Awards Committee**

Philippine Coconut Authority

Regional Government Center

Balintawak, Pagadian City

Zamboanga del Sur

Sir/Madam:

After having carefully read and accepted the terms and conditions in the Request for Quotation, hereunder is our price quotation for the item/s identified below:

ItemNo.	Article and Descriptions	Quantity	Unit Price	Total Price (VAT Inclusive)
1	<b>Supply and Delivery of Unmanned Aerial Vehicle (Drone)</b>  - Inclusive of training/orientation and testing of product functionality - Drone & Tablet Specification (Attachment 3)	One (1) unit	P _____	P _____

**AMOUNT IN WORDS:** \_\_\_\_\_

The above-quoted price is inclusive of all costs and applicable taxes.

Very truly yours,

**AUTHORIZED REPRESENTATIVE:**

Signature : \_\_\_\_\_  
Printed Name : \_\_\_\_\_  
Company Name : \_\_\_\_\_  
Contact No : \_\_\_\_\_

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Attachment 2

## Omnibus Sworn Statement

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CITY/MUNICIPALITY OF \_\_\_\_\_ ) S.S.

### AFFIDAVIT

I, *[Name of Affiant]*, of legal age, *[Civil Status]*, *[Nationality]*, and residing at *[Address of Affiant]*, after having been duly sworn in accordance with law, do hereby depose and state that:

**1. Select one, delete the other:**

*If a sole proprietorship:* I am the sole proprietor of *[Name of Bidder]* with office address at *[address of Bidder]*;

*If a partnership, corporation, cooperative, or joint venture:* I am the duly authorized and designated representative of *[Name of Bidder]* with office address at *[address of Bidder]*;

**2. Select one, delete the other:**

*If a sole proprietorship:* As the owner and sole proprietor of *[Name of Bidder]*, I have full power and authority to do, execute and perform any and all acts necessary to represent it in the bidding for *[Name of the Project]* of the *[Name of the Procuring Entity]*;

*If a partnership, corporation, cooperative, or joint venture:* I am granted full power and authority to do, execute and perform any and all acts necessary and/or to represent the *[Name of Bidder]* in the bidding as shown in the attached *[state title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate issued by the corporation or the members of the joint venture)]*;

3. *[Name of Bidder]* is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board;
4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;
5. *[Name of Bidder]* is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;
6. The owner or sole proprietor is not related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;
7. *[Name of Bidder]* complies with existing labor laws and standards; and

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8. *[Name of Bidder]* is aware of and has undertaken the responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:
- Carefully examining all of the Bidding Documents;
  - Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
  - Making an estimate of the facilities available and needed for the contract to be bid, if any; and
  - Inquiring or securing Supplemental/Bid Bulletin(s) issued for the *[Name of the Project]*.
9. *[Name of Bidder]* did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.
10. **In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.**

IN WITNESS WHEREOF, I have hereunto set my hand this \_\_ day of \_\_\_\_, 20\_\_ at \_\_\_\_\_, Philippines.

\_\_\_\_\_  
Bidder's Representative/Authorized Signatory

Doc. No.  
Page No.  
Book No.  
Series of 20\_\_\_\_\_

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## **DRONE SPECIFICATIONS:**

### **Aircraft**

- **Takeoff Weight**
  - Mavic 3 Cine: 899 g
- **Dimensions (Folded/Unfolded)**
  - Unfolded (without propellers) 347.5×283×107.7 mm  
(Length×Width×Height)
- **Diagonal Length**
  - 380.1 mm
- **Max Ascent Speed**
  - 1 m/s (C mode)
  - 6 m/s (N mode)
  - 8 m/s (S mode)
- **Max Descent Speed**
  - 1 m/s (C mode)
  - 6 m/s (N mode)
  - 6 m/s (S mode)
- **Max Flight Speed (at sea level, no wind)**
  - 5 m/s (C mode)
  - 15 m/s (N mode)
  - 19 m/s (S mode)
- **Max Service Ceiling Above Sea Level**
  - 6000 m
- **Max Flight Time (no wind)**
  - 46 minutes \*
- **Max Hovering Time (no wind)**
  - 40 minutes \*

\* The flight time was measured in a controlled test environment. Specific test conditions are as follows: No wind, at sea level, constant flight speed of 32.4 kph, APAS off, AirSense off, camera parameters set to 1080p/24fps, video mode off, and flying from 100% battery to 0% battery. Results may vary depending on environment, usage scenario, and firmware version.

- **Max Flight Distance**
  - 30 km
- **Max Wind Speed Resistance**



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- 12 m/s

- **Max Tilt Angle**

- 25° (C mode)
- 30° (N mode)
- 35° (S mode)

- **Max Angular Velocity**

- 200°/s

- **Operating Temperature**

- -10° to 40° C (14° to 104° F)

- **GNSS**

- GPS + Galileo + BeiDou

- **Hovering Accuracy Range**

- Vertical:  $\pm 0.1$  m (with Vision Positioning);  $\pm 0.5$  m  
(with GNSS Positioning)
- Horizontal:  $\pm 0.3$  m (with Vision Positioning);  $\pm 0.5$  m  
(with High-Precision Positioning System)

- **Internal Storage**

- Mavic 3 Cine: 1TB (available space is approx. 934.8 GB)

## **Hasselblad Camera**

- **Sensor**

- 4/3 CMOS, Effective pixels: 20 MP

- **Lens**

- FOV: 84°  
Format Equivalent: 24 mm  
Aperture: f/2.8 to f/11  
Focus: 1 m to  $\infty$  (with autofocus)

- **ISO Range**

- Video: 100-6400  
Still Image: 100-6400

- **Shutter Speed**

- Electronic Shutter: 8-1/8000 s

- **Max Image Size**

- Main Unit: 5280×3956

- **Still Photography Modes**

- Single shot: 20MP Photos

Automatic Exposure Bracketing (AEB): 20 MP, 3/5 bracketed frames at 0.7 EV

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Burst shooting: 20 MP, 3/5/7

Timed: 20 MP, 2/3/5/7/10/15/20/30/60 s

- **Video Resolution**

- Apple ProRes 422 HQ

Apple ProRes 422

Apple ProRes 422 LT

5.1K: 5120×2700@24/25/30/48/50fps

DCI 4K: 4096×2160@24/25/30/48/50/60/120\*fps

4K: 3840×2160@24/25/30/48/50/60/120\*fps

H.264/H.265

5.1K: 5120×2700@24/25/30/48/50fps

DCI 4K: 4096×2160@24/25/30/48/50/60/120\*fps

4K: 3840×2160@24/25/30/48/50/60/120\*fps

FHD: 1920×1080@24/25/30/48/50/60/120\*/200\*fps

\* Framerates above are recording framerates. Videos will be played as slow-motion videos.

- **Max Video Bitrate**

- H.264/H.265 Bitrate: 200 Mbps

Apple ProRes 422 HQ Bitrate: 3,772 Mbps

Apple ProRes 422 Bitrate: 2,514 Mbps

Apple ProRes 422 LT Bitrate: 1,750 Mbps

- **Supported File Formats**

- exFAT

- **Photo Format**

- JPEG/DNG (RAW)

- **Video Formats**

- Mavic 3 Cine:

MP4/MOV (MPEG-4 AVC/H.264, HEVC/H.265)

MOV (Apple ProRes 422 HQ/422/422 LT)

## **Tele Camera**

- **Sensor**

- 1/2-inch CMOS

- **Shutter Speed**

- Electronic Shutter: 2-1/8000 s

- **Lens**

- FOV: 15°

Format Equivalent: 162mm

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Aperture: f/4.4

Focus: 3 m to  $\infty$

- **ISO Range**

- Video: 100-6400

Still Image: 100-6400

- **Max Image Size**

- 4000×3000

- **Photo Format**

- JPEG/DNG (RAW)

- **Video Formats**

- MP4/MOV (MPEG-4 AVC/H.264, HEVC/H.265)

- **Still Photography Modes**

- Single shot: 12MP Photos

Automatic Exposure Bracketing (AEB): 12 MP, 3/5 bracketed frames at 0.7 EV

Burst shooting: 12 MP, 3/5/7

Timed: 12 MP, 2/3/5/7/10/15/20/30/60 s

- **Video Resolution**

- H.264/H.265

4K: 3840×2160@25/30/50fps

FHD: 1920×1080@25/30/50fps

- **Digital Zoom**

- 4x

## **Gimbal**

- **Stabilization**

- 3-axis motorized (tilt, roll, pan)

- **Mechanical Range**

- Tilt: -135° to 100°

Roll: -45° to 45°

Pan: -27° to 27°

- **Controllable Range**

- Tilt: -90° to 35°

Pan: -5° to 5°

- **Max Control Speed (tilt)**

- 100°/s

- **Angular Vibration Range**

- $\pm 0.007^\circ$

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## Sensing

- **Sensing System**
  - Omnidirectional binocular vision system, supplemented with an infrared sensor at the bottom of the aircraft
- **Forward**
  - Measurement Range: 0.5-20 m  
Detection Range: 0.5-200 m  
Effective Sensing Speed: Flight Speed  $\leq$  15m/s  
FOV: Horizontal 90°, Vertical 103°
- **Backward**
  - Measurement Range: 0.5-16 m  
Effective Sensing Speed: Flight Speed  $\leq$  12m/s  
FOV: Horizontal 90°, Vertical 103°
- **Lateral**
  - Measurement Range: 0.5-25 m  
Effective Sensing Speed: Flight Speed  $\leq$  15m/s  
FOV: Horizontal 90°, Vertical 85°
- **Upward**
  - Measurement Range: 0.2-10 m  
Effective Sensing Speed: Flight Speed  $\leq$  6m/s  
FOV: Front and Back 100°, Left and Right 90°
- **Downward**
  - Measurement Range: 0.3-18 m  
Effective Sensing Speed: Flight Speed  $\leq$  6m/s  
FOV: Front and Back 130°, Left and Right 160°
- **Operating Environment**
  - Forward, Backward, Left, Right, and Upward: Surface with a clear pattern and adequate lighting (lux>15)  
Downward: Surface with a clear pattern and adequate lighting (lux >15). Diffuse reflective surface with diffuse reflectivity>20% (e.g. wall, tree, person)

## Video Transmission

- **Video Transmission System**
  - O3+
- **Live View Quality**
  - Remote Controller: 1080p@30fps/1080p@60fps



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- **Operation Frequency**
  - 5.725-5.850 GHz
- **Max Transmission Distance (unobstructed, free of interference and aligned with controller)**
  - 2.400-2.4835 GHz; 5.725-5.850 GHz
  - FCC: 15 km
  - CE: 8 km
  - SRRC: 8 km
  - MIC: 8 km
- **Signal Transmission Ranges (FCC)**
  - Strong Interference (urban landscape, limited line of sight, many competing signals): Approx. 1.5-3 km
  - Medium Interference (suburban landscape, open line of sight, some competing signals): Approx. 3-9 km
  - Low Interference (open landscape abundant line of sight, few competing signals): Approx. 9-15 km
  - Data is tested under different standards in open areas free of interference. It only refers to the maximum, one-way flight distance without considering Return to Home. Please pay attention to RTH prompts in the DJI Fly app during actual flight.
- **Max Download Bitrate**
  - O3+:
    - 5.5MB/s (with RC-N1 remote controller)
    - 15MB/s (with DJI RC Pro remote controller)
  - Wi-Fi 6:
    - 80MB/s\*
  - \* Measured in laboratory environments with little interference in countries/regions that support both 2.4GHz and 5.8GHz, and the footage is saved in the built-in SSD or internal storage.
  - Download speed may vary depending on actual conditions.
- **Latency (depending on environmental conditions and mobile device)**
  - 130 ms (with RC-N1 remote controller)
  - 120 ms (with DJI RC Pro remote controller)
- **Antennas**
  - 4 antennas, 2T4R
- **Transmitter Power (EIRP)**
  - 5.8 GHz:  $\leq 33$  dBm (FCC),  $\leq 30$  dBm(SRRC),  $\leq 14$  dBm(CE)

## **Battery**

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- **Capacity**
  - 5000 mAh
- **Voltage**
  - 15.4 V
- **Charging Voltage Limit**
  - 17.6 V
- **Battery Type**
  - LiPo 4S
- **Energy**
  - 77 Wh
- **Weight**
  - 335.5 g
- **Charging Temperature**
  - 5° to 40° C (41° to 104° F)

## **Battery Charger**

- **Input**
  - 100-240 V AC, 47-63 Hz, 2.0 A
- **USB-C Output**
  - USB-C: 5.0 V=5.0 A/9.0 V=5.0 A/12.0 V=5.0 A/15.0 V=4.3 A/20.0 V=3.25 A/5.0~20.0 V=3.25 A
- **USB-A output**
  - USB-A: 5 V=2 A
- **Rated Power**
  - 65 W

## **Charging Hub**

- **Input**
  - USB-C: 5-20 V=5.0 A max
- **Output**
  - Battery: 12-17.6 V=5.0 A max
- **Rated Power**
  - 65 W
- **Charging Type**
  - Charges three batteries in sequence.
- **Charging Temperature Range**



- 5° to 40° C (41° to 104° F)

## **Car Charger**

- **Input**
  - Car Power Input: 12.7-16 V=6.5 A, rated voltage 14 V DC
- **Output**
  - USB-C: 5.0 V=5.0 A/9.0 V=5.0 A/12.0 V=5.0 A/15.0 V=4.3A/20.0 V=3.25 A/5.0~20.0 V=3.25 A
  - USB-A: 5 V=2 A
- **Rated Power**
  - 65 W
- **Charging Time**
  - Approx. 96 minutes
- **Charging Temperature Range**
  - 5° to 40° C (41° to 104° F)

## **Storage**

- **Recommended microSD Cards**
  - Lexar 1066x 256GB V30 A2 microSDXC
  - Lexar 1066x 512GB V30 A2 microSDXC
  - SanDisk High Endurance 256GB V30 microSDXC
  - Kingston Canvas Go! Plus 256GB V30 A2 microSDXC
  - Kingston Canvas Go! Plus 512GB V30 A2 microSDXC
  - Samsung EVO Plus 512GB V30 A2 microSDXC
  - Samsung PRO Plus 256GB V30 A2 microSDXC
  - Samsung PRO Plus 512GB V30 A2 microSDXC
- **SSD Specs**
  - Mavic 3 Cine: 1 TB (available space is approx. 934.8 GB)

## **Remote Controller**

- **Remote Controller Transmission System**
  - When used with different aircraft hardware configurations, DJI RC-N1 Remote Controllers will automatically select the corresponding firmware version for updating and support the following transmission technologies enabled by the hardware performance of the linked aircraft models:
    - a. DJI Mini 2/ DJI Mavic Air 2: O2



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b. DJI Air 2S: O3

c. DJI Mavic 3: O3+

- **Max Supported Mobile Device Size**

- 180×86×10 mm (Length×Width×Height)

- **Operating Temperature**

- 0° to 40° C (32° to 104° F)

- **Transmitter Power (EIRP)**

- 5.725-5.850 GHz:

<26 dBm (FCC), <23 dBm (SRRC), <14 dBm (CE)

- **Battery Life**

- Without charging any mobile device: 6 hr;

when charging mobile device: 4 hr

- **Supported USB Port Types**

- Lightning, Micro USB, USB-C

## **With Extra Battery**

## **With Extra Propeller**

## **Tablet Specifications:**

IOS 12.1.3 (upgradable), A12 chip (7nm), 2048x1536 pixel resolution, 256GB Storage, 3GB RAM, 7.9" LCD Display

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