

# **PHILIPPINE BIDDING DOCUMENTS**

**Government of the Republic of the Philippines  
University of the Philippines Mindanao**

**ASIMOV-HAWKS PROJECT EQUIPMENT  
PBM 2021-029**

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# Table of Contents

<b>Glossary of Acronyms, Terms, and Abbreviations .....</b>	<b>3</b>
<b>Section I. Invitation to Bid.....</b>	<b>6</b>
<b>Section II. Instructions to Bidders.....</b>	<b>9</b>
1. Scope of Bid .....	10
2. Funding Information.....	10
3. Bidding Requirements .....	10
4. Corrupt, Fraudulent, Collusive, and Coercive Practices.....	10
5. Eligible Bidders.....	10
6. Origin of Goods .....	12
7. Subcontracts .....	12
8. Pre-Bid Conference .....	12
9. Clarification and Amendment of Bidding Documents .....	12
10. Documents comprising the Bid: Eligibility and Technical Components .....	13
11. Documents comprising the Bid: Financial Component .....	13
12. Bid Prices .....	13
13. Bid and Payment Currencies .....	14
14. Bid Security .....	14
15. Sealing and Marking of Bids .....	14
16. Deadline for Submission of Bids .....	15
17. Opening and Preliminary Examination of Bids .....	15
18. Domestic Preference .....	15
19. Detailed Evaluation and Comparison of Bids .....	15
20. Post-Qualification .....	16
21. Signing of the Contract .....	16
<b>Section III. Bid Data Sheet .....</b>	<b>17</b>
<b>Section IV. General Conditions of Contract .....</b>	<b>20</b>
1. Scope of Contract .....	21
2. Advance Payment and Terms of Payment .....	21
3. Performance Security .....	21
4. Inspection and Tests .....	21
5. Warranty .....	22
6. Liability of the Supplier .....	22
<b>Section V. Special Conditions of Contract .....</b>	<b>23</b>
<b>Section VI. Schedule of Requirements .....</b>	<b>28</b>
<b>Section VII. Technical Specifications .....</b>	<b>29</b>

## *Glossary of Acronyms, Terms, and Abbreviations*

**ABC** – Approved Budget for the Contract.

**BAC** – Bids and Awards Committee.

**Bid** – A signed offer or proposal to undertake a contract submitted by a bidder in response to and in consonance with the requirements of the bidding documents. Also referred to as *Proposal* and *Tender*. (2016 revised IRR, Section 5[c])

**Bidder** – Refers to a contractor, manufacturer, supplier, distributor and/or consultant who submits a bid in response to the requirements of the Bidding Documents. (2016 revised IRR, Section 5[d])

**Bidding Documents** – The documents issued by the Procuring Entity as the bases for bids, furnishing all information necessary for a prospective bidder to prepare a bid for the Goods, Infrastructure Projects, and/or Consulting Services required by the Procuring Entity. (2016 revised IRR, Section 5[e])

**BIR** – Bureau of Internal Revenue.

**BSP** – Bangko Sentral ng Pilipinas.

**Consulting Services** – Refer to services for Infrastructure Projects and other types of projects or activities of the GOP requiring adequate external technical and professional expertise that are beyond the capability and/or capacity of the GOP to undertake such as, but not limited to: (i) advisory and review services; (ii) pre-investment or feasibility studies; (iii) design; (iv) construction supervision; (v) management and related services; and (vi) other technical services or special studies. (2016 revised IRR, Section 5[i])

**CDA** - Cooperative Development Authority.

**Contract** – Refers to the agreement entered into between the Procuring Entity and the Supplier or Manufacturer or Distributor or Service Provider for procurement of Goods and Services; Contractor for Procurement of Infrastructure Projects; or Consultant or Consulting Firm for Procurement of Consulting Services; as the case may be, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.

**CIF** – Cost Insurance and Freight.

**CIP** – Carriage and Insurance Paid.

**CPI** – Consumer Price Index.

**DDP** – Refers to the quoted price of the Goods, which means “delivered duty paid.”

**DTI** – Department of Trade and Industry.

**EXW** – Ex works.

**FCA** – “Free Carrier” shipping point.

**FOB** – “Free on Board” shipping point.

**Foreign-funded Procurement or Foreign-Assisted Project**– Refers to procurement whose funding source is from a foreign government, foreign or international financing institution as specified in the Treaty or International or Executive Agreement. (2016 revised IRR, Section 5[b]).

**Framework Agreement** – Refers to a written agreement between a procuring entity and a supplier or service provider that identifies the terms and conditions, under which specific purchases, otherwise known as “Call-Offs,” are made for the duration of the agreement. It is in the nature of an option contract between the procuring entity and the bidder(s) granting the procuring entity the option to either place an order for any of the goods or services identified in the Framework Agreement List or not buy at all, within a minimum period of one (1) year to a maximum period of three (3) years. (GPPB Resolution No. 27-2019)

**GFI** – Government Financial Institution.

**GOCC** – Government-owned and/or –controlled corporation.

**Goods** – Refer to all items, supplies, materials and general support services, except Consulting Services and Infrastructure Projects, which may be needed in the transaction of public businesses or in the pursuit of any government undertaking, project or activity, whether in the nature of equipment, furniture, stationery, materials for construction, or personal property of any kind, including non-personal or contractual services such as the repair and maintenance of equipment and furniture, as well as trucking, hauling, janitorial, security, and related or analogous services, as well as procurement of materials and supplies provided by the Procuring Entity for such services. The term “related” or “analogous services” shall include, but is not limited to, lease or purchase of office space, media advertisements, health maintenance services, and other services essential to the operation of the Procuring Entity. (2016 revised IRR, Section 5[r])

**GOP** – Government of the Philippines.

**GPPB** – Government Procurement Policy Board.

**INCOTERMS** – International Commercial Terms.

**Infrastructure Projects** – Include the construction, improvement, rehabilitation, demolition, repair, restoration or maintenance of roads and bridges, railways, airports, seaports, communication facilities, civil works components of information technology projects, irrigation, flood control and drainage, water supply, sanitation, sewerage and solid waste

management systems, shore protection, energy/power and electrification facilities, national buildings, school buildings, hospital buildings, and other related construction projects of the government. Also referred to as *civil works or works*. (2016 revised IRR, Section 5[u])

**LGUs** – Local Government Units.

**NFCC** – Net Financial Contracting Capacity.

**NGA** – National Government Agency.

**PhilGEPS** - Philippine Government Electronic Procurement System.

**Procurement Project** – refers to a specific or identified procurement covering goods, infrastructure project or consulting services. A Procurement Project shall be described, detailed, and scheduled in the Project Procurement Management Plan prepared by the agency which shall be consolidated in the procuring entity's Annual Procurement Plan. (GPPB Circular No. 06-2019 dated 17 July 2019)

**PSA** – Philippine Statistics Authority.

**SEC** – Securities and Exchange Commission.

**SLCC** – Single Largest Completed Contract.

**Supplier** – refers to a citizen, or any corporate body or commercial company duly organized and registered under the laws where it is established, habitually established in business and engaged in the manufacture or sale of the merchandise or performance of the general services covered by his bid. (Item 3.8 of GPPB Resolution No. 13-2019, dated 23 May 2019). Supplier as used in these Bidding Documents may likewise refer to a distributor, manufacturer, contractor, or consultant.

**UN** – United Nations.

# ***Section I. Invitation to Bid***



## UNIVERSITY OF THE PHILIPPINES MINDANAO

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### INVITATION TO BID FOR THE ASIMOV-HAWKS PROJECT EQUIPMENT

1. The University of the Philippines Mindanao (UP Mindanao), through the GAA 2021 intends to apply the sum of Eight Million Seventeen Thousand Seven Hundred Fifty Pesos only [P8,017,750.00] being the ABC to payments under the contract for the Asimov-HAWKS Project Equipment [Project identification number- PBM 2021-029]. Bids received in excess of the ABC for each lot shall be automatically rejected at bid opening. *The list of lots with the ABC corresponding to each lot is provided in the Schedule of Requirements.*
2. 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.

3. Prospective Bidders may obtain further information from the UP Mindanao BAC Secretariat and inspect the Bidding Documents at the address given below during office hours Monday-Friday 8:30AM-4:30PM.
4. A complete set of Bidding Documents may be acquired by interested Bidders on December 20, 2021 from the PhilGEPS website and also the UP Mindanao website and from the given address below *during office hours and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount listed below:*

<i>Approved Budget for the Contract</i>	<i>Maximum Cost of Bidding Documents (in Philippine Peso)</i>
<i>500,000 and below</i>	<i>500.00</i>
<i>More than 500,000 up to 1 Million</i>	<i>1,000.00</i>
<i>More than 1 Million up to 5 Million</i>	<i>5,000.00</i>
<i>More than 5 Million up to 10 Million</i>	<i>10,000.00</i>

*[NOTE: For lot procurement, the maximum fee for the Bidding Documents for each lot shall be based on its ABC, in accordance with the Guidelines issued by the GPPB; provided that the total fees for the Bidding Documents of all lots shall not exceed the maximum fee prescribed in the Guidelines for the sum of the ABC of all lots.]*

UP Mindanao shall allow the bidder to present its proof of payment for the fees in any of the following: *presented in person, by facsimile, or through electronic means.*

5. UP Mindanao will hold a Pre-Bid Conference on **January 12, 2022 at 11:00AM** through video conferencing or webcasting *via Zoom* which shall be open to prospective bidders.
6. Bids must be duly received by the BAC Secretariat through any of the following:
  - (i) manual submission at the office address indicated below,
  - (ii) online or electronic submission as indicated below, or
  - (iii) bothon or before **11:00 AM, January 24, 2022**. Late bids shall not be accepted.
7. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB** Clause 14.
8. Bid opening shall be on **January 24, 2022 at 11:00 AM** at the Administration Building, UP Mindanao, Mintal, Davao City and/or via Zoom. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.
9. *Please refer to the Supplemental Guidelines for the electronic submission of bids.*
10. UP Mindanao 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. For further information, please refer to:

*The BAC Secretariat  
Administration Building  
Mintal, Davao City 8022  
bacsecretariat.upmindanao@up.edu.ph  
Tel 082-293-0863  
Website address: see below*

12. You may visit the following websites:

For downloading of Bidding Documents: *www2.upmin.edu.ph and the PhilGEPS website*

For online bid submission: *bacgoods.upmin@up.edu.ph*

*December 17, 2021*

**Prof. VLADIMER B. KOBAYASHI**  
*Chair, BAC for Goods*



***Section II. Instructions to Bidders***

## 1. Scope of Bid

The Procuring Entity, UP Mindanao wishes to receive Bids for the Asimov-HAWKS Project Equipment with identification number PBM 2021-029.

The Procurement Project (referred to herein as “Project”) is composed of *twenty-six (26) lots*, the details of which are described in Section VII (Technical Specifications).

## 2. Funding Information

2.1. The GOP through the source of funding as indicated below for CY 2021 in the amount of *P8,017,750.00*].

2.2. The source of funding is:

NGA, the General Appropriations Act or Special Appropriations.

## 3. Bidding Requirements

The Bidding for the Project shall be governed by all the provisions of RA No. 9184 and its 2016 revised IRR, including its Generic Procurement Manuals and associated policies, rules and regulations as the primary source thereof, while the herein clauses shall serve as the secondary source thereof.

Any amendments made to the IRR and other GPPB issuances shall be applicable only to the ongoing posting, advertisement, or **IB** by the BAC through the issuance of a supplemental or bid bulletin.

The Bidder, by the act of submitting its Bid, shall be deemed to have verified and accepted the general requirements of this Project, including other factors that may affect the cost, duration and execution or implementation of the contract, project, or work and examine all instructions, forms, terms, and project requirements in the Bidding Documents.

## 4. Corrupt, Fraudulent, Collusive, and Coercive Practices

The Procuring Entity, as well as the Bidders and Suppliers, shall observe the highest standard of ethics during the procurement and execution of the contract. They or through an agent shall not engage in corrupt, fraudulent, collusive, coercive, and obstructive practices defined under Annex “I” of the 2016 revised IRR of RA No. 9184 or other integrity violations in competing for the Project.

## 5. Eligible Bidders

5.1. Only Bids of Bidders found to be legally, technically, and financially capable will be evaluated.

5.2. *[Select one, delete other/s]*

- a. Foreign ownership exceeding those allowed under the rules may participate pursuant to:
    - i. When a Treaty or International or Executive Agreement as provided in Section 4 of the RA No. 9184 and its 2016 revised IRR allow foreign bidders to participate;
    - ii. Citizens, corporations, or associations of a country, included in the list issued by the GPPB, the laws or regulations of which grant reciprocal rights or privileges to citizens, corporations, or associations of the Philippines;
    - iii. When the Goods sought to be procured are not available from local suppliers; or
    - iv. When there is a need to prevent situations that defeat competition or restrain trade.
  - b. Foreign ownership limited to those allowed under the rules may participate in this Project.
- 5.3. Pursuant to Section 23.4.1.3 of the 2016 revised IRR of RA No.9184, the Bidder shall have an SLCC that is at least one (1) contract similar to the Project the value of which, adjusted to current prices using the PSA's CPI, must be at least equivalent to:
- a. For the procurement of Non-expendable Supplies and Services: The Bidder must have completed a single contract that is similar to this Project, equivalent to at least fifty percent (50%) of the ABC.
  - b. For the procurement of Expendable Supplies: The Bidder must have completed a single contract that is similar to this Project, equivalent to at least twenty-five percent (25%) of the ABC.
  - c. For procurement where the Procuring Entity has determined, after the conduct of market research, that imposition of either (a) or (b) will likely result to failure of bidding or monopoly that will defeat the purpose of public bidding: the Bidder should comply with the following requirements: [*Select either failure or monopoly of bidding based on market research conducted*]
    - i. Completed at least two (2) similar contracts, the aggregate amount of which should be equivalent to at least *fifty percent (50%) in the case of non-expendable supplies and services or twenty-five percent (25%) in the case of expendable supplies*] of the ABC for this Project; and
    - ii. The largest of these similar contracts must be equivalent to at least half of the percentage of the ABC as required above.

- 5.4. The Bidders shall comply with the eligibility criteria under Section 23.4.1 of the 2016 IRR of RA No. 9184.

## 6. Origin of Goods

There is no restriction on the origin of goods other than those prohibited by a decision of the UN Security Council taken under Chapter VII of the Charter of the UN, subject to Domestic Preference requirements under **ITB** Clause 18.

## 7. Subcontracts

- 7.1. The Bidder may subcontract portions of the Project to the extent allowed by the Procuring Entity as stated herein, but in no case more than twenty percent (20%) of the Project.

The Procuring Entity has prescribed that:

- a. Subcontracting is not allowed.

- 7.2. *[If Procuring Entity has determined that subcontracting is allowed during the bidding, state:]* The Bidder must submit together with its Bid the documentary requirements of the subcontractor(s) complying with the eligibility criteria stated in **ITB** Clause 5 in accordance with Section 23.4 of the 2016 revised IRR of RA No. 9184 pursuant to Section 23.1 thereof.

- 7.3. *[If subcontracting is allowed during the contract implementation stage, state:]* The Supplier may identify its subcontractor during the contract implementation stage. Subcontractors identified during the bidding may be changed during the implementation of this Contract. Subcontractors must submit the documentary requirements under Section 23.1 of the 2016 revised IRR of RA No. 9184 and comply with the eligibility criteria specified in **ITB** Clause 5 to the implementing or end-user unit.

- 7.4. Subcontracting of any portion of the Project does not relieve the Supplier of any liability or obligation under the Contract. The Supplier will be responsible for the acts, defaults, and negligence of any subcontractor, its agents, servants, or workmen as fully as if these were the Supplier's own acts, defaults, or negligence, or those of its agents, servants, or workmen.

## 8. Pre-Bid Conference

The Procuring Entity will hold a pre-bid conference for this Project on the specified date and time and either at its physical address and/or through videoconferencing/webcasting} as indicated in paragraph 6 of the **IB**.

## 9. Clarification and Amendment of Bidding Documents

Prospective bidders may request for clarification on and/or interpretation of any part of the Bidding Documents. Such requests must be in writing and received by the Procuring Entity, either at its given address or through electronic mail indicated in the

**IB**, at least ten (10) calendar days before the deadline set for the submission and receipt of Bids.

## **10. Documents comprising the Bid: Eligibility and Technical Components**

- 10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section VIII (Checklist of Technical and Financial Documents)**.
- 10.2. The Bidder's SLCC as indicated in **ITB** Clause 5.3 should have been completed within five years (*as provided in the IB*) prior to the deadline for the submission and receipt of bids.
- 10.3. If the eligibility requirements or statements, the bids, and all other documents for submission to the BAC are in foreign language other than English, it must be accompanied by a translation in English, which shall be authenticated by the appropriate Philippine foreign service establishment, post, or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. Similar to the required authentication above, for Contracting Parties to the Apostille Convention, only the translated documents shall be authenticated through an apostille pursuant to GPPB Resolution No. 13-2019 dated 23 May 2019. The English translation shall govern, for purposes of interpretation of the bid.

## **11. Documents comprising the Bid: Financial Component**

- 11.1. The second bid envelope shall contain the financial documents for the Bid as specified in **Section VIII (Checklist of Technical and Financial Documents)**.
- 11.2. If the Bidder claims preference as a Domestic Bidder or Domestic Entity, a certification issued by DTI shall be provided by the Bidder in accordance with Section 43.1.3 of the 2016 revised IRR of RA No. 9184.
- 11.3. Any bid exceeding the ABC indicated in paragraph 1 of the **IB** shall not be accepted.
- 11.4. For Foreign-funded Procurement, a ceiling may be applied to bid prices provided the conditions are met under Section 31.2 of the 2016 revised IRR of RA No. 9184.

## **12. Bid Prices**

- 12.1. Prices indicated on the Price Schedule shall be entered separately in the following manner:
  - a. For Goods offered from within the Procuring Entity's country:
    - i. The price of the Goods quoted EXW (ex-works, ex-factory, ex-warehouse, ex-showroom, or off-the-shelf, as applicable);

- ii. The cost of all customs duties and sales and other taxes already paid or payable;
  - iii. The cost of transportation, insurance, and other costs incidental to delivery of the Goods to their final destination; and
  - iv. The price of other (incidental) services, if any, listed in the **BDS**.
- b. For Goods offered from abroad:
- i. Unless otherwise stated in the **BDS**, the price of the Goods shall be quoted delivered duty paid (DDP) with the place of destination in the Philippines as specified in the **BDS**. In quoting the price, the Bidder shall be free to use transportation through carriers registered in any eligible country. Similarly, the Bidder may obtain insurance services from any eligible source country.
  - ii. The price of other (incidental) services, if any, as listed in the **BDS**.

### **13. Bid and Payment Currencies**

- 13.1. For Goods that the Bidder will supply from outside the Philippines, the bid prices may be quoted in the local currency or tradeable currency accepted by the BSP at the discretion of the Bidder. However, for purposes of bid evaluation, Bids denominated in foreign currencies, shall be converted to Philippine currency based on the exchange rate as published in the BSP reference rate bulletin on the day of the bid opening.
- 13.2. Payment of the contract price shall be made in: Philippine Pesos.

### **14. Bid Security**

- 14.1. The Bidder shall submit a Bid Securing Declaration or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the schedule in the **BDS**.
- 14.2. The Bid and bid security shall be valid until *120 days after the opening of bids*. Any Bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.
- 14.3. performance securing declaration, as the case may be, by the winning Bidder or compliant Bidders and the signing of the Framework Agreement.

### **15. Sealing and Marking of Bids**

Each Bidder shall submit one copy of the first and second components of its Bid.

The Procuring Entity may request additional hard copies and/or electronic copies of the Bid. However, failure of the Bidders to comply with the said request shall not be a ground for disqualification.

If the Procuring Entity allows the submission of bids through online submission or any other electronic means, the Bidder shall submit an electronic copy of its Bid, which must be digitally signed. An electronic copy that cannot be opened or is corrupted shall be considered non-responsive and, thus, automatically disqualified.

## **16. Deadline for Submission of Bids**

- 16.1. The Bidders shall submit on the specified date and time and either at its physical address or through online submission as indicated in paragraph 7 of the **IB**.

## **17. Opening and Preliminary Examination of Bids**

- 17.1. The BAC shall open the Bids in public at the time, on the date, and at the place specified in paragraph 9 of the **IB**. The Bidders' representatives who are present shall sign a register evidencing their attendance. In case videoconferencing, webcasting or other similar technologies will be used, attendance of participants shall likewise be recorded by the BAC Secretariat.

In case the Bids cannot be opened as scheduled due to justifiable reasons, the rescheduling requirements under Section 29 of the 2016 revised IRR of RA No. 9184 shall prevail.

- 17.2. The preliminary examination of bids shall be governed by Section 30 of the 2016 revised IRR of RA No. 9184.

## **18. Domestic Preference**

- 18.1. The Procuring Entity will grant a margin of preference for the purpose of comparison of Bids in accordance with Section 43.1.2 of the 2016 revised IRR of RA No. 9184.

## **19. Detailed Evaluation and Comparison of Bids**

- 19.1. The Procuring Entity's BAC shall immediately conduct a detailed evaluation of all Bids rated "*passed*," using non-discretionary pass/fail criteria. The BAC shall consider the conditions in the evaluation of Bids under Section 32.2 of the 2016 revised IRR of RA No. 9184.

- 19.2. If the Project allows partial bids, bidders may submit a proposal on any of the lots or items, and evaluation will be undertaken on a per lot or item basis, as the case maybe. In this case, the Bid Security as required by **ITB** Clause 14 shall be submitted for each lot or item separately.

- 19.3. The descriptions of the lots or items shall be indicated in **Section VII (Technical Specifications)**, although the ABCs of these lots or items are indicated in the **BDS** for purposes of the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184. The NFCC must be sufficient for the total of the ABCs for all the lots or items participated in by the prospective Bidder.

- 19.4. The Project shall be awarded as follows:

– One Project having several items grouped into several lots, which shall be awarded as separate contracts per lot.

- 19.5. Except for bidders submitting a committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation, all Bids must include the NFCC computation pursuant to Section 23.4.1.4 of the 2016 revised IRR of RA No. 9184, which must be sufficient for the total of the ABCs for all the lots or items participated in by the prospective Bidder. For bidders submitting the committed Line of Credit, it must be at least equal to ten percent (10%) of the ABCs for all the lots or items participated in by the prospective Bidder.

## **20. Post-Qualification**

- 20.1. Within a non-extendible period of five (5) calendar days from receipt by the Bidder of the notice from the BAC that it submitted the Lowest Calculated Bid, the Bidder shall submit its latest income and business tax returns filed and paid through the BIR Electronic Filing and Payment System (eFPS) and other appropriate licenses and permits required by law and stated in the **BDS**.

## **21. Signing of the Contract**

- 21.1. The documents required in Section 37.2 of the 2016 revised IRR of RA No. 9184 shall form part of the Contract. Additional Contract documents are indicated in the **BDS**.



## ***Section III. Bid Data Sheet***

# Bid Data Sheet

ITB Clause																															
5.3	<p>For this purpose, contracts similar to the Project shall be:</p> <ul style="list-style-type: none"> <li>a. <i>IT and Laboratory Equipment</i></li> <li>b. completed within five (5) years prior to the deadline for the submission and receipt of bids.</li> </ul>																														
7.1	<i>[Specify the portions of Goods to be subcontracted, which shall not be a significant or material component of the Project as determined by the Procuring Entity.]</i> Not applicable																														
12	The price of the Goods shall be quoted DDP <i>[state place of destination]</i> or the applicable International Commercial Terms (INCOTERMS) for this Project.																														
14.1	<p>The bid security shall be in the form of a Bid Securing Declaration, or any of the following forms and amounts:</p> <ul style="list-style-type: none"> <li>a. The amount equivalent to not less than 2% of the ABC, if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or</li> <li>b. The amount equivalent to not less than <i>five percent (5%) of ABC</i> if bid security is in Surety Bond.</li> </ul>																														
19.3	<p><i>[In case the Project will be awarded by lot, list the grouping of lots by specifying the group title, items, and the quantity for every identified lot, and the corresponding ABC for each lot.]</i></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Lot No.</th> <th style="text-align: center;">Description</th> <th style="text-align: center;">Approved Budget (ABC)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">LOT 1:</td> <td>OFFICE LAPTOP AND ACCESSORIES</td> <td style="text-align: right;">ABC: Php 170,000.00</td> </tr> <tr> <td style="text-align: center;">LOT 2:</td> <td>OFFICE LAPTOP AND ACCESSORIES</td> <td style="text-align: right;">ABC: Php 150,000.00</td> </tr> <tr> <td style="text-align: center;">LOT 3:</td> <td>OFFICE LAPTOP AND ACCESSORIES</td> <td style="text-align: right;">ABC: Php 130,000.00</td> </tr> <tr> <td style="text-align: center;">LOT 4:</td> <td>OFFICE DESKTOP WITH OFFICE SUITE</td> <td style="text-align: right;">ABC: Php 300,000.00</td> </tr> <tr> <td style="text-align: center;">LOT 5:</td> <td>LAPTOP WITH GPU AND ACCESSORIES</td> <td style="text-align: right;">ABC: Php 400,000.00</td> </tr> <tr> <td style="text-align: center;">LOT 6:</td> <td>LASER COLORED PRINTER</td> <td style="text-align: right;">ABC: Php 127,000.00</td> </tr> <tr> <td style="text-align: center;">LOT 7:</td> <td>WORKSTATION WITH GPU AND ACCESSORIES</td> <td style="text-align: right;">ABC: Php 1,375,000.00</td> </tr> <tr> <td style="text-align: center;">LOT 8:</td> <td>AIR CONDITIONING UNITS</td> <td style="text-align: right;">ABC: Php 330,000.00</td> </tr> <tr> <td style="text-align: center;">LOT 9:</td> <td>BIOMETRIC LOCK ASSEMBLY</td> <td style="text-align: right;">ABC: Php 27,500.00</td> </tr> </tbody> </table>	Lot No.	Description	Approved Budget (ABC)	LOT 1:	OFFICE LAPTOP AND ACCESSORIES	ABC: Php 170,000.00	LOT 2:	OFFICE LAPTOP AND ACCESSORIES	ABC: Php 150,000.00	LOT 3:	OFFICE LAPTOP AND ACCESSORIES	ABC: Php 130,000.00	LOT 4:	OFFICE DESKTOP WITH OFFICE SUITE	ABC: Php 300,000.00	LOT 5:	LAPTOP WITH GPU AND ACCESSORIES	ABC: Php 400,000.00	LOT 6:	LASER COLORED PRINTER	ABC: Php 127,000.00	LOT 7:	WORKSTATION WITH GPU AND ACCESSORIES	ABC: Php 1,375,000.00	LOT 8:	AIR CONDITIONING UNITS	ABC: Php 330,000.00	LOT 9:	BIOMETRIC LOCK ASSEMBLY	ABC: Php 27,500.00
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	<b>LOT 10: QR-BASED INVENTORY SYSTEM</b>	<b>ABC: Php 28,660.00</b>
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	<b>LOT 13: MULTISPECTRAL/HYPERSPECTRAL CAMERA(S) AND ACCESSORIES</b>	<b>ABC: Php 450,000.00</b>
	<b>LOT 14: 3D PRINTER</b>	<b>ABC: Php 145,000.00</b>
	<b>LOT 15: COMPUTING STATION WITH GPU AND HIGH-CAPACITY STORAGE AND ACCESSORIES</b>	<b>ABC: Php 1,000,000.00</b>
	<b>LOT 16: UAVs AND ACCESSORIES</b>	<b>ABC: Php 610,600.00</b>
	<b>LOT 17: UAVs AND ACCESSORIES</b>	<b>ABC: Php 89,600.00</b>
	<b>LOT 18: UAVs AND ACCESSORIES</b>	<b>ABC: Php 499,800.00</b>
	<b>LOT 19: UAV VIDEO CAMERAS AND ACCESSORIES</b>	<b>ABC: Php 403,900.00</b>
	<b>LOT 20: UAV VIDEO CAMERAS AND ACCESSORIES</b>	<b>ABC: Php 196,100.00</b>
	<b>LOT 21: ON-BOARD COMPUTERS AND DEVELOPMENT KITS</b>	<b>ABC: P410,000.00</b>
	<b>LOT 22: FURNITURE &amp; FIXTURES</b>	<b>ABC: Php 206,800.00</b>
	<b>LOT 23: FURNITURE &amp; FIXTURES</b>	<b>ABC: Php 129,500.00</b>
	<b>LOT 24: FURNITURE &amp; FIXTURES</b>	<b>ABC: Php 76,450.00</b>
	<b>LOT 25: One Lot: UAV control / telemetry visualization devices (SMARTPHONE)</b>	<b>ABC: Php 23,000.00</b>
	<b>LOT 26: One Lot: UAV control / telemetry visualization devices (TABLET)</b>	<b>ABC: Php 35,000.00</b>
	<b>GRAND TOTAL: Php 8,017,750.00</b>	
20.2	<i>[List here any licenses and permits relevant to the Project and the corresponding law requiring it.]</i>	
21.2	<i>[List here any additional contract documents relevant to the Project that may be required by existing laws and/or the Procuring Entity.]</i>	

## ***Section IV. General Conditions of Contract***

## **1. Scope of Contract**

This Contract shall include all such items, although not specifically mentioned, that can be reasonably inferred as being required for its completion as if such items were expressly mentioned herein. All the provisions of RA No. 9184 and its 2016 revised IRR, including the Generic Procurement Manual, and associated issuances, constitute the primary source for the terms and conditions of the Contract, and thus, applicable in contract implementation. Herein clauses shall serve as the secondary source for the terms and conditions of the Contract.

This is without prejudice to Sections 74.1 and 74.2 of the 2016 revised IRR of RA No. 9184 allowing the GPPB to amend the IRR, which shall be applied to all procurement activities, the advertisement, posting, or invitation of which were issued after the effectivity of the said amendment.

Additional requirements for the completion of this Contract shall be provided in the **Special Conditions of Contract (SCC)**.

## **2. Advance Payment and Terms of Payment**

2.1. Advance payment of the contract amount is provided under Annex “D” of the revised 2016 IRR of RA No. 9184.

2.2. The Procuring Entity is allowed to determine the terms of payment on the partial or staggered delivery of the Goods procured, provided such partial payment shall correspond to the value of the goods delivered and accepted in accordance with prevailing accounting and auditing rules and regulations. The terms of payment are indicated in the **SCC**.

*[Include the following clauses if Framework Agreement will be used:]*

2.3. For a single-year Framework Agreement, prices charged by the Supplier for Goods delivered and/or services performed under a Call-Off shall not vary from the prices quoted by the Supplier in its bid.

2.4. For multi-year Framework Agreement, prices charged by the Supplier for Goods delivered and/or services performed under a Call-Off shall not vary from the prices quoted by the Supplier during conduct of Mini-Competition.

## **3. Performance Security**

Within ten (10) calendar days from receipt of the Notice of Award by the Bidder from the Procuring Entity but in no case later than the signing of the Contract by both parties, the successful Bidder shall furnish the performance security in any of the forms prescribed in Section 39 of the 2016 revised IRR of RA No. 9184

## **4. Inspection and Tests**

The Procuring Entity or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Project specifications at no extra cost to

the Procuring Entity in accordance with the Generic Procurement Manual. In addition to tests in the **SCC, Section VII (Technical Specifications)** shall specify what inspections and/or tests the Procuring Entity requires, and where they are to be conducted. The Procuring Entity shall notify the Supplier in writing, in a timely manner, of the identity of any representatives retained for these purposes.

All reasonable facilities and assistance for the inspection and testing of Goods, including access to drawings and production data, shall be provided by the Supplier to the authorized inspectors at no charge to the Procuring Entity.

## **5. Warranty**

5.1 In order to assure that manufacturing defects shall be corrected by the Supplier, a warranty shall be required from the Supplier as provided under Section 62.1 of the 2016 revised IRR of RA No. 9184.

5.2 The Procuring Entity shall promptly notify the Supplier in writing of any claims arising under this warranty. Upon receipt of such notice, the Supplier shall, repair or replace the defective Goods or parts thereof without cost to the Procuring Entity, pursuant to the Generic Procurement Manual.

## **6. Liability of the Supplier**

The Supplier's liability under this Contract shall be as provided by the laws of the Republic of the Philippines.

If the Supplier is a joint venture, all partners to the joint venture shall be jointly and severally liable to the Procuring Entity.

## *Section V. Special Conditions of Contract*

## Special Conditions of Contract

GCC Clause	
1	<p><i>[List here any additional requirements for the completion of this Contract. The following requirements and the corresponding provisions may be deleted, amended, or retained depending on its applicability to this Contract:]</i></p> <p><b>Delivery and Documents –</b></p> <p>For purposes of the Contract, “EXW,” “FOB,” “FCA,” “CIF,” “CIP,” “DDP” and other trade terms used to describe the obligations of the parties shall have the meanings assigned to them by the current edition of INCOTERMS published by the International Chamber of Commerce, Paris. The Delivery terms of this Contract shall be as follows:</p> <p><i>[For Goods supplied from abroad, state:]</i> “The delivery terms applicable to the Contract are DDP delivered <i>[indicate place of destination]</i>. In accordance with INCOTERMS.”</p> <p><i>[For Goods supplied from within the Philippines, state:]</i> “The delivery terms applicable to this Contract are delivered <i>[indicate place of destination]</i>. Risk and title will pass from the Supplier to the Procuring Entity upon receipt and final acceptance of the Goods at their final destination.”</p> <p>Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in Section VI (Schedule of Requirements).</p> <p>For purposes of this Clause the Procuring Entity’s Representative at the Project Site is Prof. Jose Rubrico.</p> <p><b>Incidental Services –</b></p> <p>The Supplier is required to provide all of the following services, including additional services, if any, specified in Section VI. Schedule of Requirements:</p> <p><i>Select appropriate requirements and delete the rest.</i></p> <ol style="list-style-type: none"> <li>a. performance or supervision of on-site assembly and/or start-up of the supplied Goods;</li> <li>b. furnishing of tools required for assembly and/or maintenance of the supplied Goods;</li> <li>c. furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods;</li> <li>d. performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and</li> </ol>



- e. training of the Procuring Entity's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods.
- f. *[Specify additional incidental service requirements, as needed.]*

The Contract price for the Goods shall include the prices charged by the Supplier for incidental services and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services.

**Spare Parts –**

The Supplier is required to provide all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:

*Select appropriate requirements and delete the rest.*

1. such spare parts as the Procuring Entity may elect to purchase from the Supplier, provided that this election shall not relieve the Supplier of any warranty obligations under this Contract; and
2. in the event of termination of production of the spare parts:
  - i. advance notification to the Procuring Entity of the pending termination, in sufficient time to permit the Procuring Entity to procure needed requirements; and
  - ii. following such termination, furnishing at no cost to the Procuring Entity, the blueprints, drawings, and specifications of the spare parts, if requested.

The spare parts and other components required are listed in **Section VI (Schedule of Requirements)** and the costs thereof are included in the contract price.

The Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spare parts or components for the Goods for a period of *[indicate here the time period specified. If not used indicate a time period of three times the warranty period]*.

Spare parts or components shall be supplied as promptly as possible, but in any case, within *[insert appropriate time period]* months of placing the order.

	<p><b>Packaging –</b></p> <p>The Supplier shall provide such packaging of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in this Contract. The packaging shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packaging case size and weights shall take into consideration, where appropriate, the remoteness of the Goods’ final destination and the absence of heavy handling facilities at all points in transit.</p> <p>The packaging, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified below, and in any subsequent instructions ordered by the Procuring Entity.</p> <p>The outer packaging must be clearly marked on at least four (4) sides as follows:</p> <p>Name of the Procuring Entity  Name of the Supplier  Contract Description  Final Destination  Gross weight  Any special lifting instructions  Any special handling instructions  Any relevant HAZCHEM classifications</p>
	<p>A packaging list identifying the contents and quantities of the package is to be placed on an accessible point of the outer packaging if practical. If not practical the packaging list is to be placed inside the outer packaging but outside the secondary packaging.</p> <p><b>Transportation –</b></p> <p>Where the Supplier is required under Contract to deliver the Goods CIF, CIP, or DDP, transport of the Goods to the port of destination or such other named place of destination in the Philippines, as shall be specified in this Contract, shall be arranged and paid for by the Supplier, and the cost thereof shall be included in the Contract Price.</p> <p>Where the Supplier is required under this Contract to transport the Goods to a specified place of destination within the Philippines, defined as the Project Site, transport to such place of destination in the Philippines, including insurance and storage, as shall be specified in this Contract, shall be arranged by the Supplier, and related costs shall be included in the contract price.</p>

	<p>Where the Supplier is required under Contract to deliver the Goods CIF, CIP or DDP, Goods are to be transported on carriers of Philippine registry. In the event that no carrier of Philippine registry is available, Goods may be shipped by a carrier which is not of Philippine registry provided that the Supplier obtains and presents to the Procuring Entity certification to this effect from the nearest Philippine consulate to the port of dispatch. In the event that carriers of Philippine registry are available but their schedule delays the Supplier in its performance of this Contract the period from when the Goods were first ready for shipment and the actual date of shipment the period of delay will be considered force majeure.</p> <p>The Procuring Entity accepts no liability for the damage of Goods during transit other than those prescribed by INCOTERMS for DDP deliveries. In the case of Goods supplied from within the Philippines or supplied by domestic Suppliers risk and title will not be deemed to have passed to the Procuring Entity until their receipt and final acceptance at the final destination.</p> <p><b>Intellectual Property Rights –</b></p> <p>The Supplier shall indemnify the Procuring Entity against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof.</p>
2.2	<p><i>[If partial payment is allowed, state]</i> “The terms of payment shall be as follows: _____.”</p>
4	<p>The inspections and tests that will be conducted are: <i>[Indicate the applicable inspections and tests]</i></p>

## ***Section VI. Schedule of Requirements***

The delivery schedule expressed as weeks/months stipulates hereafter a delivery date which is the date of delivery to the project site.

*NOTE: The Schedule of Requirements is in a separate file.*

## ***Section VII. Technical Specifications***

### **Notes for Preparing the Technical Specifications**

A set of precise and clear specifications is a prerequisite for Bidders to respond realistically and competitively to the requirements of the Procuring Entity without qualifying their Bids. In the context of Competitive Bidding, the specifications (*e.g.* production/delivery schedule, manpower requirements, and after-sales service/parts, descriptions of the lots or items) must be prepared to permit the widest possible competition and, at the same time, present a clear statement of the required standards of workmanship, materials, and performance of the goods and services to be procured. Only if this is done will the objectives of transparency, equity, efficiency, fairness, and economy in procurement be realized, responsiveness of bids be ensured, and the subsequent task of bid evaluation and post-qualification facilitated. The specifications should require that all items, materials and accessories to be included or incorporated in the goods be new, unused, and of the most recent or current models, and that they include or incorporate all recent improvements in design and materials unless otherwise provided in the Contract.

Samples of specifications from previous similar procurements are useful in this respect. The use of metric units is encouraged. Depending on the complexity of the goods and the repetitiveness of the type of procurement, it may be advantageous to standardize the General Technical Specifications and incorporate them in a separate subsection. The General Technical Specifications should cover all classes of workmanship, materials, and equipment commonly involved in manufacturing similar goods. Deletions or addenda should then adapt the General Technical Specifications to the particular procurement.

Care must be taken in drafting specifications to ensure that they are not restrictive. In the specification of standards for equipment, materials, and workmanship, recognized Philippine and international standards should be used as much as possible. Where other particular standards are used, whether national standards or other standards, the specifications should state that equipment, materials, and workmanship that meet other authoritative standards, and which ensure at least a substantially equal quality than the standards mentioned, will also be acceptable. The following clause may be inserted in the Special Conditions of Contract or the Technical Specifications.

#### **Sample Clause: Equivalency of Standards and Codes**

Wherever reference is made in the Technical Specifications to specific standards and codes to be met by the goods and materials to be furnished or tested, the provisions of the latest edition or revision of the relevant standards and codes shall apply, unless otherwise expressly stated in the Contract. Where such standards and codes are national or relate to a particular country or region, other authoritative standards that ensure substantial equivalence to the standards and codes specified will be acceptable.

Reference to brand name and catalogue number should be avoided as far as possible; where unavoidable they should always be followed by the words “*or at least equivalent.*” References to brand names cannot be used when the funding source is the GOP.

Where appropriate, drawings, including site plans as required, may be furnished by the Procuring Entity with the Bidding Documents. Similarly, the Supplier may be requested to provide drawings or samples either with its Bid or for prior review by the Procuring Entity during contract execution.

Bidders are also required, as part of the technical specifications, to complete their statement of compliance demonstrating how the items comply with the specification.

# Technical Specifications

Item	Specification	Statement of Compliance
		<p><i>[Bidders must state here either “Comply” or “Not Comply” against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of “Comply” or “Not Comply” must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer’s un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidder's statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the applicable laws and issuances.]</i></p>

**Note: The Technical Specifications are in a separate file.**



***Section VIII. Checklist of Technical and  
Financial Documents***

# Checklist of Technical and Financial Documents

## I. TECHNICAL COMPONENT ENVELOPE

### *Class “A” Documents*

#### Legal Documents

- (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages);  
**or**
- (b) Registration certificate from Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives or its equivalent document,  
**and**
- (c) Mayor’s or Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or the equivalent document for Exclusive Economic Zones or Areas;  
**and**
- (d) Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR).

#### Technical Documents

- (e) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid; **and**
- (f) Statement of the bidder’s Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided for in Sections 23.4.1.3 and 23.4.2.4 of the 2016 revised IRR of RA No. 9184, within the relevant period as provided in the Bidding Documents; **and**
- (g) Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission;  
**or**  
Original copy of Notarized Bid Securing Declaration; **and**
- (h) Conformity with the Technical Specifications, which may include production/delivery schedule, manpower requirements, and/or after-sales/parts, if applicable; **and**
- (i) Original duly signed Omnibus Sworn Statement (OSS);  
**and** if applicable, Original Notarized Secretary’s Certificate in case of a corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder.

#### Financial Documents

- (j) The Supplier’s audited financial statements, showing, among others, the Supplier’s total and current assets and liabilities, stamped “received” by the BIR or its duly accredited and authorized institutions, for the preceding

calendar year which should not be earlier than two (2) years from the date of bid submission; **and**

- (k) The prospective bidder's computation of Net Financial Contracting Capacity (NFCC);  
**or**  
A committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation.

***Class "B" Documents***

- (l) If applicable, a duly signed joint venture agreement (JVA) in case the joint venture is already in existence;  
**or**  
duly notarized statements from all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful.

**II. FINANCIAL COMPONENT ENVELOPE**

- (m) Original of duly signed and accomplished Financial Bid Form; **and**  
 (n) Original of duly signed and accomplished Price Schedule(s).

***Other documentary requirements under RA No. 9184 (as applicable)***

- (o) *[For foreign bidders claiming by reason of their country's extension of reciprocal rights to Filipinos]* Certification from the relevant government office of their country stating that Filipinos are allowed to participate in government procurement activities for the same item or product.  
 (p) Certification from the DTI if the Bidder claims preference as a Domestic Bidder or Domestic Entity.



## SCHEDULE OF REQUIREMENTS

Lot No.	Description Delivery Schedule / Place	Approved Budget (ABC)
	<b>LOT 1: OFFICE LAPTOP AND ACCESSORIES</b>	<b>ABC: Php 170,000.00</b>
	Delivery period: <b>Thirty (30) calendar days</b> Delivery and Installation: <b>CARIM Bldg., UP Mindanao, Mintal, Tugbok District, Davao City</b>	
	<b>LOT 2: OFFICE LAPTOP AND ACCESSORIES</b>	<b>ABC: Php 150,000.00</b>
	Delivery period: <b>Thirty (30) calendar days</b> Delivery and Installation: <b>CARIM Bldg., UP Mindanao, Mintal, Tugbok District, Davao City</b>	
	<b>LOT 3: OFFICE LAPTOP AND ACCESSORIES</b>	<b>ABC: Php 130,000.00</b>
	Delivery period: <b>Thirty (30) calendar days</b> Delivery and Installation: <b>CARIM Bldg., UP Mindanao, Mintal, Tugbok District, Davao City</b>	
	<b>LOT 4: OFFICE DESKTOP WITH OFFICE SUITE</b>	<b>ABC: Php 300,000.00</b>
	Delivery period: <b>Thirty (30) calendar days</b> Delivery and Installation: <b>CARIM Bldg., UP Mindanao Mintal, Tugbok District, Davao City</b>	
	<b>LOT 5: LAPTOP WITH GPU AND ACCESSORIES</b>	<b>ABC: Php 400,000.00</b>
	Delivery period: <b>Thirty (30) calendar days</b> Delivery and Installation: <b>CARIM Bldg., UP Mindanao Mintal, Tugbok District, Davao City</b>	
	<b>LOT 6: LASER COLORED PRINTER</b>	<b>ABC: Php 127,000.00</b>
	Delivery period: <b>Thirty (30) calendar days</b> Delivery and Installation: <b>CARIM Bldg., UP Mindanao Mintal, Tugbok District, Davao City</b>	
	<b>LOT 7: WORKSTATION WITH GPU AND ACCESSORIES</b>	<b>ABC: Php 1,375,000.00</b>
	Delivery period: <b>Thirty (30) calendar days</b> Delivery and Installation: <b>CARIM Bldg., UP Mindanao Mintal, Tugbok District, Davao City</b>	
	<b>LOT 8: AIR CONDITIONING UNITS</b>	<b>ABC: Php 330,000.00</b>
	Delivery period: <b>Thirty (30) calendar days</b> Delivery and Installation: <b>CARIM Bldg., UP Mindanao Mintal, Tugbok District, Davao City</b>	
	<b>LOT 9: BIOMETRIC LOCK ASSEMBLY</b>	<b>ABC: Php 27,500.00</b>
	Delivery period: <b>Thirty (30) calendar days</b> Delivery and Installation: <b>CARIM Bldg., UP Mindanao Mintal, Tugbok District, Davao City</b>	
	<b>LOT 10: QR-BASED INVENTORY SYSTEM</b>	<b>ABC: Php 28,660.00</b>
	Delivery period: <b>Thirty (30) calendar days</b>	

Delivery and Installation: <b>CARIM Bldg., UP Mindanao Mintal, Tugbok District, Davao City</b>	
<b>LOT 11: CCTV KIT</b>	<b>ABC: Php 93,840.00</b>
Delivery period: <b>Thirty (30) calendar days</b> Delivery and Installation: <b>CARIM Bldg., UP Mindanao Mintal, Tugbok District, Davao City</b>	
<b>LOT 12: UAV LIDAR SENSORS AND ACCESSORIES</b>	<b>ABC: Php 610,000.00</b>
Delivery period: <b>Thirty (30) calendar days</b> Delivery and Installation: <b>CARIM Bldg., UP Mindanao Mintal, Tugbok District, Davao City</b>	
<b>LOT 13: MULTISPECTRAL/HYPERSPECTRAL CAMERA(S) AND ACCESSORIES</b>	<b>ABC: Php 450,000.00</b>
Delivery period: <b>Thirty (30) calendar days</b> Delivery and Installation: <b>CARIM Bldg., UP Mindanao Mintal, Tugbok District, Davao City</b>	
<b>LOT 14: 3D PRINTER</b>	<b>ABC: Php 145,000.00</b>
Delivery period: <b>Thirty (30) calendar days</b> Delivery and Installation: <b>CARIM Bldg., UP Mindanao Mintal, Tugbok District, Davao City</b>	
<b>LOT 15: COMPUTING STATION WITH GPU AND HIGH-CAPACITY STORAGE AND ACCESSORIES</b>	<b>ABC: Php 1,000,000.00</b>
Delivery period: <b>Thirty (30) calendar days</b> Delivery and Installation: <b>CARIM Bldg., UP Mindanao Mintal, Tugbok District, Davao City</b>	
<b>LOT 16: UAVs AND ACCESSORIES</b>	<b>ABC: Php 610,600.00</b>
Delivery period: <b>Thirty (30) calendar days</b> Delivery and Installation: <b>CARIM Bldg., UP Mindanao Mintal, Tugbok District, Davao City</b>	
<b>LOT 17: UAVs AND ACCESSORIES</b>	<b>ABC: Php 89,600.00</b>
Delivery period: <b>Thirty (30) calendar days</b> Delivery and Installation: <b>CARIM Bldg., UP Mindanao Mintal, Tugbok District, Davao City</b>	
<b>LOT 18: UAVs AND ACCESSORIES</b>	<b>ABC: Php 499,800.00</b>
Delivery period: <b>Thirty (30) calendar days</b> Delivery and Installation: <b>CARIM Bldg., UP Mindanao Mintal, Tugbok District, Davao City</b>	
<b>LOT 19: UAV VIDEO CAMERAS AND ACCESSORIES</b>	<b>ABC: Php 403,900.00</b>
Delivery period: <b>Thirty (30) calendar days</b> Delivery and Installation: <b>CARIM Bldg., UP Mindanao Mintal, Tugbok District, Davao City</b>	
<b>LOT 20: UAV VIDEO CAMERAS AND ACCESSORIES</b>	<b>ABC: Php 196,100.00</b>
Delivery period: <b>Thirty (30) calendar days</b>	

Delivery and Installation: <b>CARIM Bldg., UP Mindanao Mintal, Tugbok District, Davao City</b>	
<b>LOT 21: ON-BOARD COMPUTERS AND DEVELOPMENT KITS</b>	<b>ABC: Php 410,000.00</b>
Delivery period: <b>Thirty (30) calendar days</b> Delivery and Installation: <b>CARIM Bldg., UP Mindanao Mintal, Tugbok District, Davao City</b>	
<b>LOT 22: FURNITURE &amp; FIXTURES</b>	<b>ABC: Php 206,800.00</b>
Delivery period: <b>Thirty (30) calendar days</b> Delivery and Installation: <b>CARIM Bldg., UP Mindanao Mintal, Tugbok District, Davao City</b>	
<b>LOT 23: FURNITURE &amp; FIXTURES</b>	<b>ABC: Php 129,500.00</b>
Delivery period: <b>Thirty (30) calendar days</b> Delivery and Installation: <b>CARIM Bldg., UP Mindanao Mintal, Tugbok District, Davao City</b>	
<b>LOT 24: FURNITURE &amp; FIXTURES</b>	<b>ABC: Php 76,450.00</b>
Delivery period: <b>Thirty (30) calendar days</b> Delivery and Installation: <b>CARIM Bldg., UP Mindanao Mintal, Tugbok District, Davao City</b>	
<b>LOT 25: One Lot: UAV control / telemetry visualization devices (SMARTPHONE)</b>	<b>ABC: Php 23,000.00</b>
Delivery period: <b>Thirty (30) calendar days</b> Delivery and Installation: <b>CARIM Bldg., UP Mindanao Mintal, Tugbok District, Davao City</b>	
<b>LOT 26: One Lot: UAV control / telemetry visualization devices (TABLET)</b>	<b>ABC: Php 35,000.00</b>
Delivery period: <b>Thirty (30) calendar days</b> Delivery and Installation: <b>CARIM Bldg., UP Mindanao Mintal, Tugbok District, Davao City</b>	
<b>GRAND TOTAL: Php 8,017,750.00</b>	

## Technical Specifications

Item	Specification	Statement of Compliance
	<p><b>General terms for all lots</b></p> <p>For Equipment:</p> <p>1) The equipment must come from a credible manufacturer with support through a distributor in the country; and</p> <p>2) The equipment must be brand new and unused.</p>	<p><i>[Bidders must state here either “Comply” or “Not Comply” against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of “Comply” or “Not Comply” must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer’s un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data, as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidder's statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the applicable laws and issuances.]</i></p>

Item	Specification	Statement of Compliance
<b>LOT 1: OFFICE LAPTOP AND ACCESSORIES</b>		<b>ABC: Php 170,000.00</b>
Delivery period: <b>Thirty (30) calendar days</b> Delivery and Installation: <b>CARIM Bldg., UP Mindanao, Mintal, Tugbok District, Davao City</b>		
	<b>1. Office Laptop And Accessories ( 1 unit)</b>	<b>ABC: Php 170,000.00</b>
	<ul style="list-style-type: none"> <li>● <b>Operating System:</b> macOS</li> <li>● <b>Chip:</b> M1 chip with 8-core CPU, 8-core GPU and 16-core Neural Engine</li> <li>● <b>Display:</b> 13.3" (diagonal) LED-backlit display IPS or better</li> <li>● <b>Memory:</b> 16GB RAM or bigger</li> <li>● <b>Storage:</b> 2TB SSD or bigger</li> <li>● <b>Secure Authentication:</b> Touch Bar and Touch ID Sensor</li> <li>● <b>INCLUSIONS:</b> <ul style="list-style-type: none"> <li>a. <b>Office Suite</b></li> <li>b. <b>Multi-touch Rechargeable Mouse</b> (2.16 cm H x 5.71 cm W x 11.35 cm D; 0.099 kg; long-lasting internal battery, Bluetooth and wireless connections)</li> <li>c. <b>Bag</b></li> <li>d. <b>Kensington lock</b></li> <li>e. <b>At least 2 Years Warranty</b></li> </ul> </li> </ul>	



<b>LOT 2: OFFICE LAPTOP AND ACCESSORIES</b>		<b>ABC: Php 150,000.00</b>
Delivery period: <b>Thirty (30) calendar days</b> Delivery and Installation: <b>CARIM Bldg., UP Mindanao, Mintal, Tugbok District, Davao City</b>		
	<b>1. Office Laptop And Accessories ( 1 unit)</b>	<b>ABC: Php 150,000.00</b>
	• <b>Operating System:</b> macOS	
	• <b>Chip:</b> M1 chip with 8-core CPU, 8-core GPU and 16-core Neural Engine	
	• <b>Display:</b> 13.3" (diagonal) LED-backlit display IPS or better	
	• <b>Memory:</b> 16GB RAM or bigger	
	• <b>Storage:</b> 2TB SSD or bigger	
	• <b>Secure Authentication:</b> Touch ID Sensor	
	• <b>INCLUSIONS:</b>	
	<b>a. Office Suite</b>	
	<b>b. Multi-touch Rechargeable Mouse</b> (2.16 cm H x 5.71 cm W x 11.35 cm D; 0.099 kg; long-lasting internal battery, Bluetooth and wireless connections)	
	<b>c. Bag</b>	
<b>d. Kensington lock</b>		
<b>e. At least 2 Years Warranty</b>		
<b>LOT 3: OFFICE LAPTOP AND ACCESSORIES</b>		<b>ABC: Php 130,000.00</b>
Delivery period: <b>Thirty (30) calendar days</b> Delivery and Installation: <b>CARIM Bldg., UP Mindanao, Mintal, Tugbok District, Davao City</b>		
	<b>1. Office Laptop And Accessories ( 1 unit)</b>	<b>ABC: Php 130,000.00</b>
	• <b>Operating System:</b> macOS	
	• <b>Chip:</b> M1 chip with 8-core CPU, 8-core GPU and 16-core Neural Engine	
	• <b>Display:</b> 13.3" (diagonal) LED-backlit display IPS or better	
	• <b>Memory:</b> 16GB RAM or bigger	
	• <b>Storage:</b> 1TB SSD or bigger	
	• <b>Secure Authentication:</b> Touch ID Sensor	
	• <b>INCLUSIONS:</b>	
	<b>a. Office Suite</b>	
	<b>b. Multi-touch Rechargeable Mouse</b> (2.16 cm H x 5.71 cm W x 11.35 cm D; 0.099 kg; long-lasting internal battery, Bluetooth and wireless connections)	
	<b>c. 4TB External Hard Drive USB-C USB 3.0</b>	
	<b>d. Thunderbolt / USB 4 multiport adapter (HDMI, USB-C, USB-3.0, VGA, Ethernet, SD/Micro SD Card Slot)</b>	
	<b>e. Bag</b>	
	<b>f. Kensington lock</b>	
<b>g. At least 2 Years Warranty</b>		
<b>LOT 4: OFFICE DESKTOP WITH OFFICE SUITE</b>		<b>ABC: Php 300,000.00</b>
Delivery period: <b>Thirty (30) calendar days</b> Delivery and Installation: <b>CARIM Bldg., UP Mindanao Mintal, Tugbok District, Davao City</b>		

<b>1. OFFICE DESKTOP WITH OFFICE SUITE (3 Units) ABC: Php 300,000.00</b>	
• <b>Operating System:</b> Windows 10 Pro or Windows 11	
• <b>Processor:</b> AMD Ryzen 7 or better, or Intel Core i5 or better	
• <b>Graphics:</b> NVIDIA/AMD GPU with 6GB RAM or higher	
• <b>Display:</b> 24-27" IPS LED Monitor or bigger; at least 1080P resolution	
• <b>Memory:</b> 16GB RAM or bigger	
• <b>Storage:</b> 512G SSD + 2TB HDD or bigger	
• <b>INCLUSIONS:</b>	
<b>a. USB noiseless optical 2-button mouse w/ mousepad</b>	
<b>b. USB Keyboard,</b>	
<b>c. Office Suite</b>	
<b>d. Uninterruptible Power Supply (UPS) with at least 30 minutes runtime capacity</b>	
<b>e. At least 2 Years Warranty</b>	
<b>LOT 5: LAPTOP WITH GPU AND ACCESSORIES ABC: Php 400,000.00</b>	
Delivery period: <b>Thirty (30) calendar days</b>	
Delivery and Installation: <b>CARIM Bldg., UP Mindanao Mintal, Tugbok District, Davao City</b>	
<b>1. LAPTOP WITH GPU AND ACCESSORIES (2 Units) ABC: Php 400,000.00</b>	
• <b>Operating System:</b> Windows 10 Pro 64 bit	
• <b>Processor:</b> Intel Core i7 or equivalent	
• <b>Graphics:</b> RTX3080 Ti 12GB GDDR6X or equivalent	
• <b>Display:</b> 15.60" 1920 x 1080 120Hz or equivalent/better	
• <b>Memory:</b> 32G RAM or bigger	
• <b>Storage:</b> 2TB SSD + 1TB HDD or bigger	
• <b>INCLUSIONS:</b>	
<b>a. Bag</b>	
<b>b. Kensington Lock</b>	
<b>c. Wireless noiseless optical 2-button mouse w/ mousepad,</b>	
<b>d. At least 2 Years Warranty</b>	
<b>LOT 6: LASER COLORED PRINTER ABC: Php 127,000.00</b>	
Delivery period: <b>Thirty (30) calendar days</b>	
Delivery and Installation: <b>CARIM Bldg., UP Mindanao Mintal, Tugbok District, Davao City</b>	
<b>1. LASER COLORED PRINTER (1 Set) ABC: Php 127,000.00</b>	
• <b>Functions:</b> Printer, Copier, Scanner	
• <b>Copier Type:</b> Digital	
• <b>Max Original Size:</b> A3/Ledger (11.7 in x 17 in)	
• <b>Printing Technology - Output:</b> Laser – Colored	
• <b>Office Machine Features:</b> Save to USB flash drive, scan to e-mail, scan to folder, scan to network	
• <b>Display Features:</b> Touch Screen	
• <b>Max Printing Resolution:</b> Up to 600 x 600 dpi (mono) / up to 600 x 600 dpi (color)	
• <b>Document Feeder:</b> ADF	

	<ul style="list-style-type: none"> <li>● <b>INCLUSIONS:</b></li> </ul>	
	<ul style="list-style-type: none"> <li>a. <b>Set of Consumable Cartridges (C,M,Y,K)</b></li> </ul>	
	<ul style="list-style-type: none"> <li>b. <b>At least 1 Year Warranty for accessories; Spare parts replacement free of charge for 1 Year; Repair service is free for two years</b></li> </ul>	
<b>LOT 7: WORKSTATION WITH GPU AND ACCESSORIES</b> <span style="float: right;"><b>ABC: Php 1,375,000.00</b></span>		
Delivery period: <b>Thirty (30) calendar days</b> Delivery and Installation: <b>CARIM Bldg., UP Mindanao Mintal, Tugbok District, Davao City</b>		
	<b>1. WORKSTATION WITH GPU AND ACCESSORIES (5 Units)</b> <span style="float: right;"><b>ABC: Php 1,375,000.00</b></span>	
	<ul style="list-style-type: none"> <li>● <b>Operating System:</b> Windows 10 Pro 64 bit</li> </ul>	
	<ul style="list-style-type: none"> <li>● <b>Processor:</b> Intel Core i9 or better, or Intel Xeon or equivalent</li> </ul>	
	<ul style="list-style-type: none"> <li>● <b>Graphics:</b> 2x NVIDIA RTX2080 8GD6 or equivalent</li> </ul>	
	<ul style="list-style-type: none"> <li>● <b>Display:</b> 24-27" double screen configuration or bigger, tilt pivot swivel height adjustable or better, LED edge light, IPS FHD 1920 x 1080 120Hz or bigger</li> </ul>	
	<ul style="list-style-type: none"> <li>● <b>Memory:</b> 64G RAM or bigger</li> </ul>	
	<ul style="list-style-type: none"> <li>● <b>Storage:</b> 2TB SSD + 4TB HDD or bigger</li> </ul>	
	<ul style="list-style-type: none"> <li>● <b>Connectivity:</b> Ethernet and Wi-Fi</li> </ul>	
	<ul style="list-style-type: none"> <li>● <b>Power Supply:</b> 1200 Watts or bigger</li> </ul>	
	<ul style="list-style-type: none"> <li>● <b>INCLUSIONS:</b></li> </ul>	
	<ul style="list-style-type: none"> <li>a. <b>UPS (30mins-1hour runtime) at least 80 Plus Gold</b></li> </ul>	
	<ul style="list-style-type: none"> <li>b. <b>USB noiseless optical 2-button mouse w/ mousepad</b></li> </ul>	
	<ul style="list-style-type: none"> <li>c. <b>USB Keyboard,</b></li> </ul>	
	<ul style="list-style-type: none"> <li>d. <b>At least 2 Years Warranty</b></li> </ul>	
<b>LOT 8: AIR CONDITIONING UNITS</b> <span style="float: right;"><b>ABC: Php 330,000.00</b></span>		
Delivery period: <b>Thirty (30) calendar days</b> Delivery and Installation: <b>CARIM Bldg., UP Mindanao Mintal, Tugbok District, Davao City</b>		
	<b>1. AIR CONDITIONING UNITS - 0.5HP AIRCON (3 Units)</b>	
	<ul style="list-style-type: none"> <li>● <b>Inverter</b></li> </ul>	
	<ul style="list-style-type: none"> <li>● <b>Split-type</b></li> </ul>	
	<ul style="list-style-type: none"> <li>● <b>INCLUSIONS:</b></li> </ul>	
	<ul style="list-style-type: none"> <li>a. <b>Remote control</b></li> </ul>	
	<ul style="list-style-type: none"> <li>b. <b>Bracket</b></li> </ul>	
	<ul style="list-style-type: none"> <li>c. <b>Installation Supplies &amp; Materials</b></li> </ul>	
	<ul style="list-style-type: none"> <li>d. <b>Labor Fee</b></li> </ul>	
	<ul style="list-style-type: none"> <li>e. <b>Delivery Fee</b></li> </ul>	
	<ul style="list-style-type: none"> <li>f. <b>At least 1 Year Warranty</b></li> </ul>	
	<b>2. AIR CONDITIONING UNITS - 1.5HP AIRCON (2 Units)</b>	
	<ul style="list-style-type: none"> <li>● <b>Inverter</b></li> </ul>	
	<ul style="list-style-type: none"> <li>● <b>Split-type</b></li> </ul>	
	<ul style="list-style-type: none"> <li>● <b>INCLUSIONS:</b></li> </ul>	
	<ul style="list-style-type: none"> <li>a. <b>Remote control</b></li> </ul>	
	<ul style="list-style-type: none"> <li>b. <b>Bracket</b></li> </ul>	
	<ul style="list-style-type: none"> <li>c. <b>Installation Supplies &amp; Materials</b></li> </ul>	

	d. Labor Fee	
	e. Delivery Fee	
	f. At least 1 Year Warranty	
	<b>3. AIR CONDITIONING UNITS - 2.5HP AIRCON (3 Units)</b>	
	• Inverter	
	• Split-type	
	• INCLUSIONS:	
	a. Remote control	
	b. Bracket	
	c. Installation Supplies & Materials	
	d. Labor Fee	
	e. Delivery Fee	
	f. At least 1 Year Warranty	
<b>LOT 9: BIOMETRIC LOCK ASSEMBLY</b> <span style="float: right;"><b>ABC: Php 27,500.00</b></span>		
Delivery period: <b>Thirty (30) calendar days</b> Delivery and Installation: <b>CARIM Bldg., UP Mindanao Mintal, Tugbok District, Davao City</b>		
	<b>1. BIOMETRIC LOCK ASSEMBLY ( 1 Set)</b> <span style="float: right;"><b>ABC: Php 27,500.00</b></span>	
	• <b>Multi-purpose System:</b> Card Access, Fingerprint, PIN; Infrared Detection Sensor	
	• <b>Single Door Magnetic Locks; Push Button Exit Switch</b>	
	• <b>Access Control Power Supply with Battery; Buzzer and multi-color LED</b>	
	• <b>IP65 rated rugged waterproof and dustproof structure</b>	
	• <b>INCLUSIONS:</b>	
	a. <b>10 dual purpose Integrated Circuit (IC) Cards and company ID (front &amp; back design)</b>	
	b. <b>Cabling Materials</b>	
	c. <b>Installation Fee</b>	
	d. <b>At least 1 Year Warranty</b>	
<b>LOT 10: QR-BASED INVENTORY SYSTEM</b> <span style="float: right;"><b>ABC: Php 28,660.00</b></span>		
Delivery period: <b>Thirty (30) calendar days</b> Delivery and Installation: <b>CARIM Bldg., UP Mindanao Mintal, Tugbok District, Davao City</b>		
	<b>1. QR-BASED INVENTORY SYSTEM (1 Set)</b> <span style="float: right;"><b>ABC: Php 28,660.00</b></span>	
	• <b>Wireless</b>	
	• <b>Handheld</b>	
	• <b>Supports 1D/2D Wireless Barcode Scanner with memory card (auto charging)</b>	
	• <b>INCLUSIONS:</b>	
	a. <b>QR code generator, scanner, and software</b>	
	b. <b>Compact Barcode Printer (Label Satin - Ribbon included)</b>	
	c. <b>Free Training</b>	
	d. <b>At least 1 Year Warranty</b>	
<b>LOT 11: CCTV KIT</b> <span style="float: right;"><b>ABC: Php 93,840.00</b></span>		
Delivery period: <b>Thirty (30) calendar days</b>		

Delivery and Installation: <b>CARIM Bldg., UP Mindanao Mintal, Tugbok District, Davao City</b>	
<b>1. CCTV KIT (1 Set)</b>	<b>ABC: Php 93,840.00</b>
<ul style="list-style-type: none"> <li>● <b>Internet Protocol (IP) Cameras</b></li> <li>● <b>Up to 30 fps</b></li> <li>● <b>3-axis adjustment for flexible mounting on a wall or ceiling</b></li> <li>● <b>Integrated IR-cut filter &amp; IR LEDs</b></li> <li>● <b>IP 66-67</b></li> <li>● <b>High Dynamic Range technology</b></li> <li>● <b>3D noise reduction</b></li> <li>● <b>Configurable video motion detection alarms</b></li> <li>● <b>INCLUSIONS:</b> <ul style="list-style-type: none"> <li><b>a. Ten (10 ) Units of Vandal Dome Indoor Cameras - 1/2.8"</b> progressive scan CMOS; 1920 x 1080@30fps; 2.8 mm/4 mm fixed lens; H.265+/H.265/H.264+/H.264; Dual stream; Digital WDR (Wide Dynamic Range); 3D DNR (Digital Noise Reduction); Up to 30 m IR range; PoE (Power over Ethernet); IP67; IK10</li> <li><b>b. Four (4) Units of Bullet Outdoor Cameras - 1/2.8"</b> progressive scan CMOS; 1920 x 1080@30fps; 2.8 mm/4 mm fixed lens; H.265+/H.265/H.264+/H.264; Dual stream; Digital WDR (Wide Dynamic Range); 3D DNR (Digital Noise Reduction); Up to 30 m IR range; PoE (Power over Ethernet); IP67</li> <li><b>c. One (1) Unit of Pan-Tilt-Zoom Outdoor Camera - 1/2.7"</b> 2Megapixel CMOS; Powerful 4x optical zoom; Support Triple-streams encoding; WDR, Day/Night(ICR); Ultra DNR; Max. 25/30fps@1080P, 25/30/50/60fps@720P; IVS; Support PoE; IR distance up to 30m</li> <li><b>d. One (1) Unit of Network Video Recorder (NVR) - Embedded 4K NVR;</b> Third-party network cameras supported; Up to 8MP resolution recording; Support 1-ch HDMI, 1-ch VGA, HMDI at up to 4K(3840x2160) resolution; 16-ch network cameras can be connected with 160M/256M incoming bandwidth; Up to 4 SATA interfaces; Support dual-os to ensure high reliability of system running; Support various VCA detection alarm and VCA search; Support H.265/H.264/ MPEG4 video formats</li> <li><b>e. One (1) Unit of POE Switch 16 port</b></li> <li><b>f. RJ 45 Connectors, UTP Cable CAT 5E, Cables, and Related Wiring/Conduit Materials, Assemblies, and Equipment</b></li> <li><b>g. Delivery and Installation of CCTV Kit</b></li> <li><b>h. At least 1 Year Warranty</b></li> </ul> </li> </ul>	
<b>LOT 12: UAV LIDAR SENSORS AND ACCESSORIES ABC: Php 610,000.00</b>	
Delivery period: <b>Thirty (30) calendar days</b>	
Delivery and Installation: <b>CARIM Bldg., UP Mindanao Mintal, Tugbok District, Davao City</b>	
<b>1. UAV LIDAR SENSORS AND ACCESSORIES (2 Sets)</b>	<b>ABC: Php 610,000.00</b>
<ul style="list-style-type: none"> <li>● <b>Small and compact LiDAR with 2 units each:</b> <ul style="list-style-type: none"> <li><b>a. 590g 16ch LiDAR Sensors</b></li> <li><b>b. RJ45 Connector</b></li> </ul> </li> </ul>	

	<b>c. Power Adapter</b>	
	<b>d. Ethernet Cable</b>	
	<b>e. Interface box (IFB) with ~3 m cable connecting sensor and IFB. INS/GPS antenna/Interface included: GPS18x LVC receiver pre-configured/Programmed</b>	
	<b>f. At least 1 Year Warranty</b>	
<b>LOT 13: MULTISPECTRAL/HYPERSPECTRAL CAMERA(S) AND ACCESSORIES</b> <b>ABC: Php 450,000.00</b>  Delivery period: <b>Thirty (30) calendar days</b> Delivery and Installation: <b>CARIM Bldg., UP Mindanao Mintal, Tugbok District, Davao City</b>		
	<b>1. MULTISPECTRAL/HYPERSPECTRAL CAMERA(S) AND ACCESSORIES (2 Sets)</b> <b>ABC: Php 450,000.00</b>	
	<ul style="list-style-type: none"> <li>• <b>2 Units of Multispectral sensor camera, each with:</b> <ul style="list-style-type: none"> <li><b>a. 1 year license Pix4Dfields software</b></li> <li><b>b. 16MP RGB Camera and Four cameras for capturing images of four bands: green, red, red edge and near infrared</b></li> <li><b>c. 72g</b></li> <li><b>d. 64GB internal memory capacity</b></li> <li><b>e. WiFi and USB access</b></li> <li><b>f. Sunshine sensor for automatic adjustment of readings to ambient light</b></li> <li><b>g. GPS, IMU and Magnetometer</b></li> <li><b>h. Slot for optional SD card to add memory and ease data transfer</b></li> <li><b>i. At least 1 Year Warranty</b></li> </ul> </li> </ul>	
<b>LOT 14: 3D PRINTER</b> <b>ABC: Php 145,000.00</b>  Delivery period: <b>Thirty (30) calendar days</b> Delivery and Installation: <b>CARIM Bldg., UP Mindanao Mintal, Tugbok District, Davao City</b>		
	<b>1. 3D PRINTER (2 Sets)</b> <b>ABC: Php 145,000.00</b>	
	<ul style="list-style-type: none"> <li>• <b>2 units of Original Assembled 3D printer each with:</b> <ul style="list-style-type: none"> <li><b>a. Build volume (25 x 21 x 21 cm   9.84 x 8.3 x 8.3 in)</b></li> <li><b>b. Layer height (0.05 – 0.35 mm)</b></li> <li><b>c. Max travel speed (200+ mm/s)</b></li> <li><b>d. Max hotend/heatbed temp.(300 °C / 120 °C (572 °F / 248 °F)</b></li> <li><b>e. Mainboard (Einsy RAMBo 8-bit board with Trinamic 2130 drivers co-developed with Ultimachine)</b></li> <li><b>f. Has IR Filament sensor</b></li> </ul> </li> <li>• <b>INCLUSION:</b> <ul style="list-style-type: none"> <li><b>a. Free 1kg filament spool of Silver PLA</b></li> <li><b>b. At least 1 Year Warranty</b></li> </ul> </li> </ul>	
<b>LOT 15: COMPUTING STATION WITH GPU AND HIGH-CAPACITY STORAGE AND ACCESSORIES</b> <b>ABC: Php 1,000,000.00</b>  Delivery period: <b>Thirty (30) calendar days</b> Delivery and Installation: <b>CARIM Bldg., UP Mindanao Mintal, Tugbok District, Davao City</b>		

<b>1. COMPUTING STATION WITH GPU AND HIGH-CAPACITY STORAGE AND ACCESSORIES (1 SET)</b>		<b>ABC: Php 1,000,000.00</b>
<ul style="list-style-type: none"> <li>• <b>OS:</b> Win10Pro64 bit/Ubuntu 20.04.3 LTS</li> </ul>		
<ul style="list-style-type: none"> <li>• <b>CPU:</b> AMD Ryzen Threadripper 3960X 24-Core TRX40 or similar w/ CPU Cooler</li> </ul>		
<ul style="list-style-type: none"> <li>• <b>Motherboard:</b> Gigabyte TR40X Aorus Master or similar</li> </ul>		
<ul style="list-style-type: none"> <li>• <b>RAM:</b> Corsair Vengeance LPX 8x16gb or similar</li> </ul>		
<ul style="list-style-type: none"> <li>• <b>GPU:</b> 2 x RTX 3090 24gb with NVLink or similar</li> </ul>		
<ul style="list-style-type: none"> <li>• <b>CASE:</b> Thermaltake Core p8 or similar</li> </ul>		
<ul style="list-style-type: none"> <li>• <b>PSU:</b> Seasonic PRIME 1300 watts 80+ platinum or similar</li> </ul>		
<ul style="list-style-type: none"> <li>• <b>SSD:</b> 980 PCIe 3.0 NVMe M.2 2280 1TB or similar</li> </ul>		
<ul style="list-style-type: none"> <li>• <b>SSD:</b> 3 x 2TB SSD 2.5" SATA 3 or similar</li> </ul>		
<ul style="list-style-type: none"> <li>• <b>NAS Synology 8-bay DS1821+ or similar</b></li> </ul>		
<ul style="list-style-type: none"> <li>• <b>HDD:</b> 8 x Exos X16 16TB Enterprise or similar</li> </ul>		
<ul style="list-style-type: none"> <li>• <b>APC UPS for superworkstation; 1440VA</b></li> </ul>		
<ul style="list-style-type: none"> <li>• <b>APC UPS for NAS; 500VA</b></li> </ul>		
<ul style="list-style-type: none"> <li>• <b>Monitor:</b> dual (27" x 2 + dual monitor stand) or curved (49" CRG9 dual QHD HDR1000 and QLED AMD Radeon(TM) FreeSync(TM) 2 and 120Hz refresh rate) or similar</li> </ul>		
<ul style="list-style-type: none"> <li>• <b>INCLUSIONS:</b></li> </ul>		
<ul style="list-style-type: none"> <li>a. <b>USB noiseless optical 2-button mouse w/ mousepad</b></li> </ul>		
<ul style="list-style-type: none"> <li>b. <b>USB Keyboard</b></li> </ul>		
<ul style="list-style-type: none"> <li>c. <b>At least 2 Years Warranty</b></li> </ul>		
<b>LOT 16: UAVs AND ACCESSORIES</b>		<b>ABC: Php 610,600.00</b>
Delivery period: <b>Thirty (30) calendar days</b> Delivery and Installation: <b>CARIM Bldg., UP Mindanao Mintal, Tugbok District, Davao City</b>		
<b>1. UAVs AND ACCESSORIES: 1 Set Quadcopter UAV w/ 55min Max Flight Time, 9kg Max Takeoff Weight: 1 Aircraft Body,1 Smart Controller w/ Battery, 4 Flight Batteries, 1 Battery Station, 1 Carrying Case, Cables &amp; Charger, Propellers &amp; Holders, Spare Parts, Screws</b>		<b>ABC: Php 610,600.00</b>
<i><b>In the box of Quadcopter UAV w/ 55min Max Flight Time, 9kg Max Takeoff Weight:</b></i>		
<ul style="list-style-type: none"> <li>• <b>1 Quadcopter Aircraft Body</b></li> </ul>		
<ul style="list-style-type: none"> <li>• <b>1 Smart Controller Enterprise</b></li> </ul>		
<ul style="list-style-type: none"> <li>• <b>4 TB60 Intelligent Flight Battery</b></li> </ul>		
<ul style="list-style-type: none"> <li>• <b>1 BS60 Intelligent Battery Station</b></li> </ul>		
<ul style="list-style-type: none"> <li>• <b>1 USB Charger</b></li> </ul>		
<ul style="list-style-type: none"> <li>• <b>1 USB-C Cable</b></li> </ul>		
<ul style="list-style-type: none"> <li>• <b>2 2110 Propellers (Clockwise)</b></li> </ul>		
<ul style="list-style-type: none"> <li>• <b>2 2110 Propellers (Counter-Clockwise)</b></li> </ul>		
<ul style="list-style-type: none"> <li>• <b>2 Landing Gear</b></li> </ul>		
<ul style="list-style-type: none"> <li>• <b>1 Pair Spare Stick Cover</b></li> </ul>		
<ul style="list-style-type: none"> <li>• <b>2 Pairs Propeller Holder</b></li> </ul>		
<ul style="list-style-type: none"> <li>• <b>4 Spare Gimbal Damper</b></li> </ul>		
<ul style="list-style-type: none"> <li>• <b>1 USB Cable with Double A Ports</b></li> </ul>		
<ul style="list-style-type: none"> <li>• <b>1 Vision System Calibration Plate</b></li> </ul>		
<ul style="list-style-type: none"> <li>• <b>1 Carrying Case</b></li> </ul>		

	<ul style="list-style-type: none"> <li>• <b>1 Smart Controller Lanyard</b></li> </ul>	
	<ul style="list-style-type: none"> <li>• <b>1 Set Rubber Port Cover</b></li> </ul>	
	<ul style="list-style-type: none"> <li>• <b>Screws and Tools</b></li> </ul>	
	<ul style="list-style-type: none"> <li>• <b>1 WB37 Intelligent Battery for the Smart Controller</b></li> </ul>	
	<ul style="list-style-type: none"> <li>• <b>1 Power Cable</b></li> </ul>	
	<ul style="list-style-type: none"> <li>• <b>1 Pair Spare Control Stick</b></li> </ul>	
	<ul style="list-style-type: none"> <li>• <b>Manuals</b></li> </ul>	
	<ul style="list-style-type: none"> <li>• <b>At least 1 Year Warranty</b></li> </ul>	
	<p><b>Specifications of Quadcopter UAV w/ 55min Max Flight Time, 9kg Max Takeoff Weight:</b></p>	
	<p>1) Aircraft:</p> <ul style="list-style-type: none"> <li>• 55 min Max Flight Time; 9 kg Max Takeoff Weight;</li> <li>• Weight (with single downward gimbal): Approx. 3.6 kg (w/o batteries),</li> <li>• Approx. 6.3 kg (w/ 2 TB60 batteries);</li> <li>• 2.7 kg Max payload capacity; 930g Single Gimbal Damper's Max Payload;</li> <li>• 15 km Transmission Range; 1080p Triple-channel Video;</li> <li>• FPV Camera: 960P Resolution, 145° FOV, 30fps frame rate;</li> <li>• Operating Frequency: 2.4000-2.4835 GHz, 5.725-5.850 GHz;</li> <li>• 23 m/s Max Flight Speed; 15 m/s Max Wind Resistance;</li> <li>• Dimensions: Unfolded, propellers excluded, 810x670x430 mm (LxWxH),</li> <li>• Folded, propellers included, 430x420x430 mm (LxWxH);</li> <li>• Operating Temperature: -20°C to 50°C;</li> <li>• @Vision System:</li> <li>• Obstacle Sensing Range: Forward/Backward/Left/Right: 0.7-40m;</li> <li>• Upward/Downward: 0.6-30m;</li> <li>• FOV: Forward/Backward/Downward: 65° (H), 50° (V);</li> <li>• Left/Right/Upward: 75°(H), 60°(V);</li> <li>• Operating Environment: Surfaces with clear patterns and adequate lighting (&gt; 15 lux);</li> <li>• @Infrared ToF Sensing System:</li> <li>• Obstacle Sensing Range: 0.1-8m; FOV: 30° (±15°);</li> <li>• Operating Environment: Large, diffuse and reflective obstacles (reflectivity &gt;10%).</li> <li>• @Top and bottom auxiliary light: Effective lighting distance: 5m.</li> <li>• @General:</li> <li>• Automate inspections with Live Mission Recording and AI Spot Check;</li> <li>• Advanced algorithms enable PinPoint and Smart Track to obtain dynamic location information for subjects in view;</li> <li>• 6 Directional Sensing and Positioning system enhances flight safety;</li> <li>• Password-protected access to aircraft and data;</li> <li>• AirSense ADS-B Receiver warns of nearby airplanes and helicopters;</li> <li>• Secure data transmission with AES-256 encryption;</li> <li>• App with Local Data Mode protects drone data.</li> </ul>	
	<p>2) Smart Controller</p> <ul style="list-style-type: none"> <li>• @OcuSync Enterprise:</li> </ul>	



	<ul style="list-style-type: none"> <li>• Operation Frequency Range: 2.400-2.4835 GHz; 5.725-5.850 GHz 1;</li> <li>• Max Transmission Distance (Unobstructed, free of interference): NCC / FCC: 15 km; CE / MIC: 8 km; SRRC: 8 km; Transmitter Power (EIRP): 2.400-2.4835 GHz: 29.5 dBm (FCC); 18.5 dBm (CE) ; 18.5 dBm (SRRC); 18.5 dBm (MIC), 5.725-5.850 GHz: 28.5 dBm (FCC); 12.5 dBm (CE); 20.5 dBm (SRRC).</li> <li>• @Wi-Fi:</li> <li>• Protocol: Wi-Fi Direct, Wi-Fi Display, 802.11a/g/n/ac, Wi-Fi with 2x2 MIMO is supported;</li> <li>• Operation Frequency Range 2.400-2.4835 GHz; 5.150-5.250 GHz 1; 5.725-5.850 GHz</li> <li>• Transmitter Power (EIRP): 2.400-2.4835 GHz: 20.5 dBm (FCC); 18.5 dBm (CE); 18.5 dBm (SRRC); 20.5 dBm (MIC) 5.150-5.250 GHz: 14 dBm (FCC); 14 dBm (CE); 14 dBm (SRRC); 14 dBm (MIC), 5.725-5.850 GHz: 18 dBm (FCC); 12 dBm (CE); 18 dBm (SRRC).</li> <li>• @Bluetooth:</li> <li>• Protocol Bluetooth: 4.2; Operation Frequency Range: 2.400-2.4835 GHz;</li> <li>• Transmitter Power (EIRP): 4 dBm (FCC); 4 dBm (CE); 4 dBm (SRRC); 4 dBm (MIC)</li> <li>• @General:</li> <li>• External Battery: Name: WB37 Intelligent Battery;</li> <li>• Capacity: 4920 mAh; Voltage: 7.6 V;</li> <li>• Type: LiPo; Energy: 37.39 Wh;</li> <li>• Charge Time (Using BS60 Intelligent Battery Station): 70 min (15° to 45° C); 130 min (0° to 15° C)</li> <li>• Built-in Battery: Battery Type: 18650 Li-ion (5000 mAh @ 7.2 V);</li> <li>• Charge Type: Supports USB charger rated 12 V / 2 A;</li> <li>• Rated Power: 17 W 2;</li> <li>• Charge Time: 2 hours and 15 minutes (Using a USB charger rated 12 V / 2 A);</li> <li>• Working Time: 2 Built-in Battery: Approx. 2.5 hours;</li> <li>• Built-in Battery + External Battery: Approx. 4.5 hours;</li> <li>• Storage Capacity: ROM 32GB + RAM 4GB;</li> <li>• Video Output Port: HDMI Port;</li> <li>• Power Supply Voltage / Current (USB-A port): 5 V / 1.5 A;</li> <li>• Operation Temperature Range: -20° to 40° C (-4° to 104° F);</li> <li>• GNSS: GPS+GLONASS;</li> <li>• Weight: External Battery excluded: Approx. 885 g;</li> <li>• External Battery included: Approx. 1054 g.</li> <li>• Dimensions (Antennas folded): 178x164x108 mm</li> </ul>	
	<p>3) <i>TB60 Intelligent Flight Battery</i></p> <ul style="list-style-type: none"> <li>• Capacity: 5935 mAh;</li> <li>• Voltage: 52.8 V; Battery Type: LiPo 12S;</li> <li>• Energy: 274 Wh; Net Weight: Approx. 1.35 kg;</li> <li>• Operating Temperature: -4°F to 122°F (-20°C to 50°C);</li> <li>• Ideal storage temperature: 71.6°F to 86°F (22°C to 30°C);</li> <li>• Charging Temperature: -4°F to 104°F (-20°C to 40°C);</li> <li>• (When the temperature is lower than 5°C, the self-heating function will be automatically enabled.</li> <li>• Charging in a low temperature may shorten the lifetime of the</li> </ul>	

	battery) <ul style="list-style-type: none"> <li>• Charging time: Using BS60 Intelligent Battery Station:</li> <li>• 220V input: 60 minutes (fully charging two TB60 batteries),</li> <li>• 30 minutes (charging two TB60 batteries from 20% to 90%)</li> <li>• 110V input: 70 minutes (fully charging two TB60 batteries),</li> <li>• 40 minutes (charging two TB60 batteries from 20% to 90%).</li> </ul>	
	4) <i>BS60 Intelligent Battery Station</i> <ul style="list-style-type: none"> <li>• Dimensions: 501*403*252mm;</li> <li>• Net Weight: 8.37kg;</li> <li>• Maximum Capacity: TB60 Intelligent Flight Battery x 8;</li> <li>• WB37 Intelligent Battery x 4;</li> <li>• Input: 100-120 VAC, 50-60 Hz / 220-240 VAC, 50-60 Hz;</li> <li>• Max. Input Power: 1070W;</li> <li>• Output Power: 100-120 V: 750 W; 220-240 V: 992 W;</li> <li>• Operating Temperature: -4°F to 104°F (-20°C to 40°C).</li> </ul>	
<p><b>LOT 17: UAVs AND ACCESSORIES</b> <span style="float: right;"><b>ABC: Php 89,600.00</b></span></p> <p>Delivery period: <b>Thirty (30) calendar days</b>                  Delivery and Installation: <b>CARIM Bldg., UP Mindanao Mintal, Tugbok District, Davao City</b></p>		
	<p><b>1. UAVs AND ACCESSORIES: 1 Set Quadcopter UAV w/ at least 30min Max Flight Time, 595g to 1, 375g Takeoff Weight: 1 Aircraft Body, 1 Remote Controller, 1-3 Flight Batteries, 1 Battery Charger, 1 Shoulder Bag or Carrying Case, 4 to 6 Pairs Propellers</b>  <span style="float: right;"><b>ABC: Php 89,600.00</b></span></p>	
	<ul style="list-style-type: none"> <li>• <b>In the box:</b></li> <li>-If <b>595g-UAV Quadcopter w/ at least 30min Max Flight Time:</b></li> <li>1) 1 Quadcopter Aircraft Body</li> <li>2) 1 RC-N1 Remote Controller</li> <li>3) 3 Intelligent Flight Battery</li> <li>4) 1 Battery Charger</li> <li>5) 1 AC Power Cable</li> <li>6) 6 Pair Low-Noise Propellers</li> <li>7) 1 Gimbal Protector</li> <li>8) 1 Type-C Cable</li> <li>9) 1 RC Cable (USB Type-C Connector)</li> <li>10) 1 RC Cable (Lightning Connector)</li> <li>11) 1 RC Cable (Standard Micro-USB Connector)</li> <li>12) 1 Pair Spare RC-N1 Control Sticks</li> <li>13) 1 ND Filters Set (ND4/8/16/32)</li> <li>14) 1 Battery Charging Hub</li> <li>15) 1 Battery to Power Bank Adaptor</li> <li>16) 1 Shoulder Bag</li> <li>17) 1 Sandisk 64GB Extreme SD Card</li> <li>18) Manuals</li> <li>19) At least 1 Year Warranty</li> </ul>	
	<ul style="list-style-type: none"> <li>• <b>In the box:</b></li> <li>-If <b>1,375g-UAV Quadcopter w/ at least 30min Max Flight Time:</b></li> <li>1) 1 Aircraft Body</li> <li>2) 1 Remote Controller</li> <li>3) 1 Intelligent Flight Battery</li> <li>4) 1 Battery Charger</li> <li>5) 1 Power Cable</li> <li>6) 4 Pair Propellers</li> <li>7) 1 Gimbal Clamp</li> </ul>	

	<p>8) 1 Micro-USB Cable            9) 1 Carrying Case            10) 1 Sandisk 64GB Extreme SD Card            11) Manuals            12) At least 1 Year Warranty</p>	
	<p>• <b>Specifications of UAV Quadcopter w/ 595g to 1,375g Takeoff Weight and at least 30min Max Flight Time:</b></p>	
	<p>1) Aircraft (595g-UAV &amp; 1,375g-UAV):</p> <ul style="list-style-type: none"> <li>• at least 30min Max Flight Time; 595g to 1,375g Takeoff Weight (Battery &amp; Propellers included);</li> <li>• Dimensions (595g-UAV): Folded: 180x97x77 mm (lwxhx), Unfolded: 183x253x77 mm (lwxhx);</li> <li>• Diagonal Length: 302 (595g-UAV) or 350 mm (1,375g-UAV);</li> <li>• Max Ascent &amp; Descent Speed (595g-UAV): 6 m/s (S and N Mode);</li> <li>• Max Ascent Speed (1,375g-UAV): S-mode: 6 m/s, P-mode: 5 m/s;</li> <li>• Max Descent Speed (1,375g-UAV): S-mode: 4 m/s, P-mode: 3 m/s;</li> <li>• Max Service Ceiling Above Sea Level: 5000 m (595g-UAV), 6000 m (1,375g-UAV);</li> <li>• Max Flight Distance (no wind): 18.5 km (595g-UAV);</li> <li>• Max Wind Speed Resistance: 10.7 m/s (595g-UAV), 10m/s (1,375g-UAV);</li> <li>• Max Tilt Angle (595g-UAV): 35° (S Mode), Front: 30°, Back: 20°, Left: 35°, Right: 35° (N Mode);</li> <li>• Max Tilt Angle (1,375g-UAV): S-mode: 42°, A-mode: 35°, P-mode: 25°;</li> <li>• Max Angular Velocity (595g-UAV): 250°/s (S Mode), 90°/s (N Mode), 60°/s (C Mode);</li> <li>• Max Angular Speed (1,375g-UAV): S-mode: 250°/s, A-mode: 150°/s;</li> <li>• Hovering Accuracy Range:</li> <li>• Vertical (595g- &amp; 1,375g-UAV): ± 0.1 m (with vision positioning), ± 0.5 m (with GNSS positioning);</li> <li>• Horizontal (595g-UAV): ± 0.1 m (with vision positioning), ± 1.5 m (with GNSS positioning);</li> <li>• Horizontal (1,375g-UAV): ± 0.3 m (with vision positioning), ± 1.5 m (with GNSS positioning);</li> <li>• Propellers (595g-UAV): Quick release, low noise, folding; Aircraft Arms (595g-UAV): Foldable;</li> <li>• GNSS: GPS+GLONASS+GALILEO (595g-UAV), GPS+GLONASS (1,375g-UAV);</li> <li>• Compass (595g-UAV): Single Compass; IMU (595g-UAV): Single IMU;</li> <li>• Internal Storage (595g-UAV): 8 GB.</li> </ul>	
	<p>• @Camera (595g-UAV):</p> <ul style="list-style-type: none"> <li>• Sensor: 1" CMOS, Effective Pixels: 20 MP; 2.4µm Pixel Size;</li> <li>• Lens: FOV: 88°, 35 mm Format Equivalent: 22 mm, Aperture: f/2.8, Shooting Range: 0.6 m to ∞;</li> <li>• Still Image Size: 20 MP, 5472x3648 (3:2), 5472x3078 (16:9);</li> <li>• Video Resolution: 5.4K: 5472x3078 @ 24/25/30 fps,</li> <li>• 4K Ultra HD: 3840x2160 @ 24/25/30/48/50/60 fps,</li> <li>• 2.7K: 2688x1512 @ 24/25/30/48/50/60 fps,</li> <li>• FHD: 1920x1080 @ 24/25/30/48/50/60/120 fps,</li> </ul>	

	<ul style="list-style-type: none"> <li>• MP4/MOV (H.264/MPEG-4 AVC, H.265/HEVC);</li> <li>• Max Video Bitrate: 150 Mbps;</li> <li>• Supported File System: FAT32/exFAT, Supports a microSD card with a capacity of up to 256 GB.</li> <li>• Digital Zoom: Zoom recording is not available while recording 10-bit videos and 120fps videos.</li> <li>• 4K/30fps: 4x, 2.7K/60fps: 4x, 2.7K/30fps: 6x, 1080p/60fps: 6x, 1080p/30fps: 8x.</li>   <li>• <i>@Camera (1,375g-UAV):</i></li> <li>• Sensor: 1-inch CMOS, Effective pixels: 20M;</li> <li>• Lens: FOV 84° 8.8 mm/24 mm (35 mm format equivalent) f/2.8-f/11 auto focus at 1 m-∞</li> <li>• Image Size: 3:2 Aspect Ratio: 5472x3648, 4:3 Aspect Ratio: 4864x3648, 16:9 Aspect Ratio: 5472x3078.</li> <li>• Video Recording Modes:</li> <li>• H.265: C4K: 4096x2160 24/25/30p @100Mbps, 4K: 3840x2160 24/25/30p @100Mbps,</li> <li>• 2.7K:2720x1530 24/25/30p @65Mbps, 2.7K: 2720x1530 48/50/60p @80Mbps,</li> <li>• FHD: 1920x1080 24/25/30p @50Mbps, FHD: 1920x1080 48/50/60p @65Mbps,</li> <li>• FHD: 1920x1080 120p @100Mbps, HD:1280x720 24/25/30p @25Mbps,</li> <li>• HD: 1280x720 48/50/60p @35Mbps, HD: 1280x720 120p @60Mbps;</li> <li>• H.264: C4K: 4096x2160 24/25/30/48/50/60p @100Mbps,</li> <li>• 4K: 3840x2160 24/25/30/48/50/60p @100Mbps, 2.7K: 2720x1530 24/25/30p @80Mbps,</li> <li>• 2.7K: 2720x1530 48/50/60p @100Mbps, FHD: 1920x1080 24/25/30p @60Mbps,</li> <li>• FHD: 1920x1080 48/50/60 @80Mbps, FHD: 1920x1080 120p @100Mbps,</li> <li>• HD: 1280x720 24/25/30p @30Mbps, HD: 1280x720 48/50/60p @45Mbps,</li> <li>• HD: 1280x720 120p @80Mbps;</li> <li>• Max Video Bitrate: 100 Mbps;</li> <li>• Supported File Systems: FAT32 (≤32 GB); exFAT (&gt;32 GB);</li> <li>• Supported SD Cards: microSD Max Capacity: 128 GB;</li> <li>• Photo: JPEG, DNG (RAW), JPEG + DNG; Video: MP4/MOV (AVC/H.264; HEVC/H.265);</li>   <li>• <i>@Gimbal (595g-UAV):</i></li> <li>• Stabilization: 3-axis (tilt, roll, pan),</li> <li>• Mechanical Range: Tilt: -135° to 45°, Roll: -45° to 45°, Pan: -100° to 100°,</li> <li>• Pan Axis: Not Controllable,</li> <li>• Controllable Range: Tilt: -90° to 0°(default), -90° to 24° (extended),</li> <li>• Max Controllable Speed (tilt): 100°/s,</li> <li>• Angular Vibration Range: ±0.01°.</li>   <li>• <i>@Gimbal (1,375g-UAV):</i></li> <li>• Stabilization: 3-axis (pitch, roll, yaw),</li> </ul>	
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	<ul style="list-style-type: none"> <li>• Controllable Range: Pitch: -90° to +30°,</li> <li>• Max Controllable Angular Speed: Pitch: 90°/s,</li> <li>• Angular Vibration Range: ±0.02°.</li> </ul> <p><i>@Vision Sensing System (595g-UAV):</i></p> <ul style="list-style-type: none"> <li>• Forward: Precision Measurement Range: 0.38-23.8 m, Effective Sensing Speed: ≤15 m/s,</li> <li>• Field of View (FOV): 72° (horizontal), 58° (vertical);</li> <li>• Backward: Precision Measurement Range: 0.37-23.4 m, Effective Sensing Speed: ≤12 m/s,</li> <li>• Field of View (FOV): 57° (horizontal), 44° (vertical);</li> <li>• Downward: ToF Measurement Range: 0.1-8 m, Hovering Range: 0.5-30 m,</li> <li>• Vision Sensor Hovering Range: 0.5-60 m;</li> <li>• Left/Right: N/A;</li> <li>• Upward: Precision Measurement Range: 0.34-28.6 m,</li> <li>• Field of View (FOV): 63° (horizontal), 78° (vertical);</li> <li>• Downward Auxiliary Light: Single LED.</li> </ul> <p><i>@Vision Sensing System (1,375g-UAV):</i></p> <ul style="list-style-type: none"> <li>• Forward Vision System: 60° (Horizontal), ±27° (Vertical),</li> <li>• Backward Vision System: 60° (Horizontal), ±27° (Vertical),</li> <li>• Downward Vision System: 70° (Front and Rear), 50° (Left and Right).</li> </ul> <p><i>@Video Transmission (595g-UAV):</i></p> <ul style="list-style-type: none"> <li>• Operating Frequency: 2.4 GHz, 5.8 GHz;</li> <li>• Transmission Power (EIRP): 2.4 GHz: FCC: ≤30 dBm, CE: ≤20 dBm, SRRC: ≤20 dBm, MIC: ≤20 dBm;</li> <li>• 5.8 GHz: FCC: ≤30 dBm, CE: ≤14 dBm, SRRC: ≤29 dBm;</li> <li>• Transmission System: O3,</li> <li>• 2.4 GHz/5.8 GHz Auto-Switching (compatible with OcuSync 2.0), 4-antenna 2T4R;</li> <li>• Max Transmission Distance: 12 km (FCC), 8 km (CE), 8 km (SRRC), 8 km (MIC);</li> <li>• Live View Quality/Latency: Drone + Remote Controller: 1080p/30fps 12 Mbps 120 ms,</li> <li>• UAV + Smart Controller: 1080p/30fps 12Mbps 130 ms;</li> <li>• Max Transmission Bitrate: 44 Mbps (download bitrate), 16 Mbps (live video bitrate);</li> <li>• Operating Temperature Range: 0° to 40°C (32° to 104°F).</li> </ul> <p><i>@Video Transmission (1,375g-UAV):</i></p> <ul style="list-style-type: none"> <li>• Operating Frequency: 2.400-2.483 GHz and 5.725-5.850 GHz;</li> <li>• Transmitter Power (EIRP): 2.400-2.483 GHz: FCC: 26 dBm, CE: 20 dBm, SRRC: 20 dBm, MIC: 17 dBm;</li> <li>• 5.725-5.850 GHz: FCC: 26 dBm, CE: 14 dBm, SRRC: 20 dBm, MIC: -;</li> <li>• Max Transmission Distance: (Unobstructed, free of interference) FCC: 10000 m, CE: 6000 m, SRRC: 6000 m, MIC: 6000 m;</li> <li>• Live View Working Frequency: 2.4 GHz ISM, 5.8 GHz ISM;</li> <li>• Live View Quality: 720P @ 30fps, 1080P @ 30fps;</li> </ul>	
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	<ul style="list-style-type: none"> <li>• Latency: 220 ms (depending on conditions and mobile device)</li> <li>• Operating Temperature Range: 32° to 104°F (0° to 40°C)</li> </ul> <p>2) <i>Remote Controller (595g-UAV):</i></p> <ul style="list-style-type: none"> <li>• Multiple Controllers: N/A;</li> <li>• Smart Controller: Supported;</li> <li>• Remote Controller Transmission System: Ocusync3;</li> <li>• Battery Life: 6 hours (4 hours when charging a mobile device);</li> <li>• Supported Mobile Device Connectors: Lightning, Micro USB, USB-C;</li> <li>• Max Supported Mobile Device Size: 180x86x10 mm (lwxhxh)</li> <li>• Operating Temperature: 0° to 40°C (32° to 104°F);</li> <li>• Transmitter Power (EIRP): 2.4 GHz: FCC: ≤26 dBm, CE: ≤20 dBm, SRRRC: ≤20 dBm, MIC: ≤20 dBm;</li> <li>• 5.8 GHz: FCC: ≤26 dBm, CE: ≤14 dBm, SRRRC: ≤26 dBm.</li> </ul> <p>2) <i>Remote Controller (1,375g-UAV):</i></p> <ul style="list-style-type: none"> <li>• Operating Frequency: 2.400-2.483 GHz and 5.725-5.850 GHz;</li> <li>• Max Transmission Distance: 2.400-2.483 GHz, 5.725-5.850 GHz (Unobstructed, free of interference)</li> <li>• FCC: 10000 m, CE: 6000 m, SRRRC: 6000 m, MIC: 6000 m;</li> <li>• Remote Controller Transmission System: OcuSync 2.0 HD;</li> <li>• Battery: 6000 mAh LiPo 2S;</li> <li>• Operating Current/Voltage: 1.2 A@7.4 V;</li> <li>• Video Output Port: GL300K: HDMI, GL300L: USB;</li> <li>• Mobile Device Holder: GL300K: Built-in display device (5.5-inch screen, 1920x1080, 1000 cd/m2, Android system, 4 GB RAM+16 GB ROM), GL300L: Tablets and smart phones;</li> <li>• Operating Temperature Range: 32° to 104°F (0° to 40°C);</li> <li>• Transmitter Power (EIRP): 2.400-2.483 GHz: FCC: 26 dBm, CE: 20 dBm, SRRRC: 20 dBm, MIC: 17 dBm;</li> <li>• 5.725-5.850 GHz: FCC: 26 dBm, CE: 14 dBm, SRRRC: 20 dBm, MIC: -.</li> </ul> <p>3) <i>Intelligent Flight Battery (595g-UAV):</i></p> <ul style="list-style-type: none"> <li>• Capacity: 3500 mAh; Voltage: 11.55 V; Battery Type: LiPo 3S;</li> <li>• Max Charging Voltage: 13.2 V;</li> <li>• Energy: 40.42 Wh; Weight: 198 g;</li> <li>• Charging Temperature Range: 5° to 40°C (41° to 104°F);</li> <li>• Max Charging Power: 38 W;</li> <li>• Built-in Battery: N/A.</li> </ul> <p>3) <i>Intelligent Flight Battery (1,375g-UAV):</i></p> <ul style="list-style-type: none"> <li>• Capacity: 5870 mAh; Voltage: 15.2 V; Battery Type: LiPo 4S;</li> <li>• Energy: 89.2 Wh; Net Weight: 468 g;</li> <li>• Charging Temperature Range: 41° to 104°F (5° to 40°C)</li> <li>• Max Charging Power: 160 W.</li> </ul> <p>4) <i>Battery Charger (595g-UAV):</i></p> <ul style="list-style-type: none"> <li>• Charging Input: 100-240V, 50/60 Hz, 1.3 A;</li> <li>• Charging Output: Charging Port: 13.2 V=2.82 A, USB Port: 5 V=2 A;</li> <li>• Voltage: 13.2 V; Rated Power: 38 W.</li> </ul>	
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	<p>4) <i>Battery Charger (1,375g-UAV):</i></p> <ul style="list-style-type: none"> <li>• Voltage: 17.4 V; Rated Power: 100 W.</li> </ul>	
<p><b>LOT 18: UAVs AND ACCESSORIES</b> <span style="float: right;"><b>ABC: Php 499,800.00</b></span></p> <p>Delivery period: <b>Thirty (30) calendar days</b>                  Delivery and Installation: <b>CARIM Bldg., UP Mindanao Mintal, Tugbok District, Davao City</b></p>		
	<p><b>1) UAVs AND ACCESSORIES: 1 Set Hexacopter UAV 30min Max Flight Time w/ 5kg payload, 21kg Maximum Takeoff Weight: 1 Aircraft Body w/ FPV Camera, 1 RC Controller, 4 Flight Batteries, 1 Battery Charger, 6 Pairs Propellers, 1 Hard Case, 1 GCS Software</b>  <span style="float: right;"><b>ABC: Php 499,800.00</b></span></p>	
	<p><b>• In the box of Hexacopter UAV 30min Max Flight Time w/ 5kg payload, 21kg Maximum Takeoff Weight:</b></p> <ol style="list-style-type: none"> <li>1) 1 Hexacopter Aircraft Body w/ FPV Camera</li> <li>2) 1 RC Controller</li> <li>3) 4 Flight Battery</li> <li>4 1 Battery Charger</li> <li>5) 6 Pair Propellers</li> <li>6) 1 Hard Case</li> <li>7) Manuals</li> <li>8) 1 GCS Software</li> <li>9) At least 1 Year Warranty</li> </ol>	
	<p><b>• Specifications of Hexacopter UAV 30min Max Flight Time w/ 5kg payload, 21kg Maximum Takeoff Weight:</b></p>	
	<p>1) <i>Aircraft:</i></p> <ul style="list-style-type: none"> <li>• 30min Max Flight Time w/ 5kg payload; 21kg Maximum Takeoff Weight;</li> <li>• Weight w/o payload: 12.27kg; Max flight time: 45Min (w/o payload);</li> <li>• Take Off and Landing: Auto, VTOL; Power source: Battery; Power: Electric Motor;</li> <li>• Motor: Electric Brushless; Material: FRP composite, Carbon, Stainless, Aluminum;</li> <li>• Number of Motors: 6 EA; Rotor type: Hexa; Payload Weight: 5-8 Kg;</li> <li>• Size: 1350 (Motor to Motor) *700 (Height) mm;</li> <li>• Max Operating Wind Speed: 13m/s; Max Speed: 17m/s;</li> <li>• Cruise Speed: 0~17m/s; Max Ascent speed: 2.5m/s; Max descent speed: 1.5m/s;</li> <li>• Max ceiling (Altitude) 3,000m; Satellite system: GPS GNSS;</li> <li>• Operating temperature: -10~40 C; IPXX: IP43.</li> </ul> <p>@Flight Control:</p> <ul style="list-style-type: none"> <li>• Single-board Flight Controller;</li> <li>• Processor: STM32H7IIK 32-bit Arm® Cortex®-M7, Action Clock: 480MHz, 1MB RAM, 2MB Flash,</li> <li>• DSP Instruction and Double-Precision FPU;</li> <li>• Co-processor: STM32F100;</li> <li>• Sensor: Accel/Gyro: ICM-20602, BMI088 / ISM330DLC,</li> <li>• Magnetometer: BMM150, Barometer: DPS368 / BMP388 / MS5611,</li> <li>• 8 Sensors: Acceleration/Gyro Sensor (3), Terrestrial Magnetic Sensor (2), Air Pressure Sensor (3);</li> <li>• Interface: 1 x Capture &amp; Analog input port, 1 UART Port, 1 x I2C</li> </ul>	

	<p>port, 2 UAVCAN Ports,</p> <ul style="list-style-type: none"> <li>• 3 Telemetry Ports, 2 GPS Ports, 1 Buzzar &amp; USB Port, 1 USB-C type;</li> <li>• Power: 5V; Operating temperature: -10~55 C;</li> <li>• PWM: 8 Main PWM / 6 AUX PWM</li> <li>• UI: 3 LED Light, B/E, PWR Status indicator;</li> <li>• Update: Via GCS Software; FMUV6 Firmware, Compatible with Ardupilot /Autopilot;</li> <li>• Size: 44mm(W) x 85mm(H) x 18mm(D);</li> </ul> <p>@Power Module:</p> <ul style="list-style-type: none"> <li>• Module Type: 6S 24V Battery Type; Input Voltage: 5 ~ 30V;</li> <li>• Output Voltage: 3.3V, 5V, 12V, 16V; Max. Current: 4A;</li> <li>• Working Temperature: -40°C ~ 105°C; Size: 40mm(W) x 105mm(H) x 35mm(D);</li> </ul> <p>@Camera: IP Camera; Full HD 1080P (1920 x 1080).</p> <p>2) RC Controller:</p> <ul style="list-style-type: none"> <li>• Futaba 14SG Transmitter – 14-Channel Digital Proportional RC System; 2-stick;</li> <li>• T14SG transmitter frequency: 2.4 GHz band; system: FASSTest14CH, FASSTest12CH, FASST MULT, FASST 7CH, S-FHSS, switchable; power supply: 6.0 V HT5F1800B NiMH battery;</li> <li>• Receiver R7008SB: size: 24.9 x 47.3 x 14.3 mm (0.98 x 1.86 x 0.56 in); weight: 10.9 g (0.38 oz);</li> <li>• power requirements: DC 3.7~7.4V; voltage range: DC 3.5~8.4V;</li> </ul> <p>3) Flight Battery</p> <ul style="list-style-type: none"> <li>• Capacity: 25,000mAh x 2set = 50,000mA;</li> <li>• Voltage: 22.8V; Cell: 6S x 2Set;</li> <li>• Type: Lipo HV.</li> </ul>	
<p><b>LOT 19: UAV VIDEO CAMERAS AND ACCESSORIES</b>                      <b>ABC: Php 403,900.00</b></p> <p>Delivery period: <b>Thirty (30) calendar days</b>                  Delivery and Installation: <b>CARIM Bldg., UP Mindanao Mintal, Tugbok District, Davao City</b></p>		
	<p><b>1) 1 UAV Vid Camera w/ high optical zoom (OZ): 1 gimbal cam: 20MP,23× Hybrid OZ,200x max zoom,compatible w/ Quad UAV (9kg Max Takeoff Wt.)</b></p> <p><b>2) 1 UAV Vid Camera w/ high optical zoom (OZ): 1 gimbal cam w/ quick release mechanism: 1/3” 3MP CMOS,30× OZ,Square Casing</b></p> <p><b><i>In the box of:</i></b></p> <p><b>1 UAV Vid Camera w/ high optical zoom (OZ): 1 gimbal cam: 20MP,23× Hybrid OZ,200x max zoom,compatible w/ Quad UAV (9kg Max Takeoff Wt.):</b></p> <ol style="list-style-type: none"> <li>1) 1 Camera</li> <li>2) 1 Gimbal</li> <li>3) 1 Storage Case</li> <li>4) 1 Lens Cleaning Cloth</li> <li>5) 1 64GB SD Card</li> <li>6) Manuals</li> <li>7) At least 1 Year Warranty</li> </ol>	



<p><b>In the box of:</b></p> <p><b>1 UAV Vid Camera w/ high optical zoom (OZ): 1 gimbal cam w/ quick release mechanism: 1/3" 3MP CMOS,30× OZ, Square Casing:</b></p> <ol style="list-style-type: none"> <li>1) 1 Camera</li> <li>2) 1 Gimbal System</li> <li>3) 1 Gimbal Quick release mechanism: control box and adapter</li> <li>4) 2 Damping Board</li> <li>5) 4 Copper Cylinders</li> <li>6) 4 Anti shredding buckle</li> <li>7) 16 Button head hexagon screw</li> <li>8) Storage Case</li> <li>9) 1 Lens Cleaning Cloth</li> <li>10) 1 64GB SD Card</li> <li>11) Manuals</li> <li>12) At least 1 Year Warranty</li> </ol>	
<p><b>Specifications of:</b></p> <p><b>1 UAV Vid Camera w/ high optical zoom (OZ): 1 gimbal cam: 20MP,23× Hybrid OZ,200x max zoom, compatible w/ Quad UAV (9kg Max Takeoff Wt.)</b></p> <p>Summary: 20 MP 1/1.7" CMOS Sensor, 23× Hybrid Optical Zoom, 200x max zoom, 4K/30fps video,66.6°-4° DFOV;12 MP 1/2.3" CMOS Sensor Wide Camera, 24mm focal length, 82.9° DFOV;3-1200m laser range finder;678±5 g;150×114×151 mm; compatible w/ Quadcopter UAV (55min Max Flight Time, 9kg Max Takeoff Weight).</p> <p>1) Camera</p> <ul style="list-style-type: none"> <li>• Weight: 678±5 g; Dimensions: 150×114×151 mm; Ingress Protection Rating: IP44;</li> <li>• Operating Temperature: -20° to 50° C (Temp. Measurement is only available between -10° to 50° C);</li> <li>• Storage Temperature: -20° to 60° C; Laser Safety: Class 1M (IEC 60825-1:2014);</li> <li>• Supported Aircraft: Quadcopter UAV (55min Max Flight Time, 9kg Max Takeoff Weight).</li> </ul> <p>@ Zoom Camera</p> <ul style="list-style-type: none"> <li>• Sensor: 1/1.7" CMOS, 20 MP;</li> <li>• Lens: DFOV: 66.6°-4°, Focal length: 6.83-119.94 mm (equivalent: 31.7-556.2 mm),</li> <li>• Aperture: f/2.8-f/11 (normal), f/1.6-f/11 (night scene),</li> <li>• Focus: 1 m to ∞ (wide), 8 m to ∞ (telephoto);</li> <li>• Focus Mode: MF/AF-C/AF-S; Exposure Mode: Auto, Manual;</li> <li>• Exposure Compensation: ±3.0 (1/3 increments);</li> <li>• Metering Mode: Spot metering, Center-weighted metering;</li> <li>• AE LOCK: Supported; Electronic Shutter Speed: 1 ~ 1/8000 s;</li> <li>• ISO Range: Video: 100 – 25600; Photo: 100 – 25600;</li> <li>• Video Resolution: 3840x2160@30fps, 1920x1080@30fps;</li> <li>• Video Format: MP4, Video subtitles: Supported;</li> <li>• Photo Size: 5184 × 3888; Photo Format: JPEG.</li> </ul> <p>@ Wide Camera</p>	

	<ul style="list-style-type: none"> <li>• <i>Sensor: 1/2.3" CMOS, 12 MP;</i></li> <li>• <i>Lens: DFOV: 82.9°, Focal length: 4.5 mm (equivalent: 24 mm), Aperture: f/2.8, Focus: 1 m to ∞;</i></li> <li>• <i>Exposure Mode: Auto; Exposure Compensation: ±3.0 (1/3 increments);</i></li> <li>• <i>Metering Mode: Spot metering, Center-weighted metering;</i></li> <li>• <i>AE LOCK: Supported; Shutter Speed: 1 ~ 1/8000;</i></li> <li>• <i>ISO Range: Video: 100 – 25600, Photo: 100 – 25600;</i></li> <li>• <i>Video Resolution:1920x1080@30fps; Video Format: MP4; Video subtitles: Supported;</i></li> <li>• <i>Photo Size: 4056 x 3040; Photo Format: JPEG.</i></li> </ul> <p><b>@ Laser Rangefinder</b></p> <ul style="list-style-type: none"> <li>• <i>Wave length: 905 nm;</i></li> <li>• <i>Measurement range: 3-1200 m (to a vertical surface with ≥12m diameter and 20% reflection rate);</i></li> <li>• <i>Measurement accuracy: ± (0.2 m + Dx0.15%); D is the distance to a vertical surface.</i></li> </ul> <p><b>@General</b></p> <ul style="list-style-type: none"> <li>• <i>Hybrid Optical Zoom: 23x (DFOV: 4°, EQV : 556.2mm);</i></li> <li>• <i>Max. Zoom: 200x (DFOV: 0.5°, EQV : 4800mm)</i></li> <li>• <i>High-Res Grid Photo: Frame an area of interest in wide camera view, and the zoom camera will automatically capture a set of 20 MP images of the area. These images are stored together with an overview image that can be viewed in greater detail;</i></li> <li>• <i>Night Scene: Supported (zoom camera);</i></li> <li>• <i>Timestamp: Including GPS, date, and time.</i></li> </ul> <p><b>@Storage</b></p> <ul style="list-style-type: none"> <li>• <i>Supported SD Card: MicroSD card (Max capacity: 128 GB, UHS-1 Speed Grade 3 required);</i></li> <li>• <i>Supported File Systems: FAT32 (≤ 32 GB), exFAT (&gt; 32 GB);</i></li> </ul> <p><b>2) Gimbal</b></p> <ul style="list-style-type: none"> <li>• <i>Angular Vibration Range: ±0.01°; Mount: Detachable;</i></li> <li>• <i>Controllable Range: Pitch: -120° to +30°, Yaw: ±320°,</i></li> <li>• <i>Mechanical Range: Pitch: -132.5° to +42.5°, Yaw: ±330°, Roll: -90° to +60°;</i></li> </ul>	
	<p><b>Specifications of:</b></p> <p><b>1 UAV Vid Camera w/ high optical zoom (OZ): 1 gimbal cam w/ quick release mechanism: 1/3" 3MP CMOS,30x OZ, Square Casing</b></p> <p><i>Summary: 1 UAV camera w/ gimbal &amp; quick release mechanism: 1/3" 3MP CMOS sensor, 30x Optical Zoom, 4.5-135mm focal length, 1080/30fps video; FOV:54.8-3.4°(Hor.), 41-2.5°(Vert.), 66.6-7.2°(Focus); 848 g; 30Hz; Pitch: ±90° Roll: ±45° Yaw: ±150°; Square Casing (L149xW103xH138mm); Control interface: PWM, S. Bus &amp; serial command.</i></p> <p><b>1) Camera</b></p> <ul style="list-style-type: none"> <li>• <i>Square Casing (L149xW103xH138mm);</i></li> <li>• <i>Total weight (gimbal and camera):848g;</i></li> </ul>	

	<ul style="list-style-type: none"> <li>• <i>Sensor: 1/3"3 MP CMOS Sensor;</i></li> <li>• <i>Video Output: CVBS and 1080P/60 HDMI; Video recorded: 1080P/30 MP4;</i></li> <li>• <i>Focal length: 30X optical focal zoom, 4.5-135mm; Wide Dynamic: Up to 105dB;</i></li> <li>• <i>FOV: Horizontal: 54.8° (Wide end) ~ 3.4° (Tele end), Vertical: 41° (wide end) ~ 2.5° (tele end),</i></li> <li>• <i>Focus: 66.6° (wide end) ~ 7.2° (tele end);</i></li> <li>• <i>Auto focus: Less than 1S; Low illumination: 0.05lux@F1.6;</i></li> <li>• <i>Aperture: Φ 16.0; Vertical Roll / Horizon Mirror/Static: Support;</i></li> <li>• <i>AWB/AGC/ACC/: Support;</i></li> <li>• <i>Working temperature: -25° ~ +60°.</i></li> </ul> <p>2) <i>Gimbal System</i></p> <ul style="list-style-type: none"> <li>• <i>Input voltage: 3S-4S;</i></li> <li>• <i>Rotate range: Pitch: ±90° Roll: ±45° Yaw: ±150°;</i></li> <li>• <i>Angle amount of jitter: Pitch and roll: ±0.02° Yaw: ±0.03°;</i></li> <li>• <i>Control interface: PWM, S.Bus and serial command;</i></li> <li>• <i>Working Current: Static current: 330mA (@12V); Dynamic current: 450mA (@12V).</i></li> </ul> <p>3) <i>1 Gimbal Quick release mechanism: control box and adapter</i></p> <ul style="list-style-type: none"> <li>• <i>Can supply power for the gimbal and camera, also will lead the video and data to the new control box so that you can get full control of the gimbal and camera.</i></li> <li>• <i>The control box provides popular interfaces for flexible integration: HDMI, Analog, PWM, Serial command, and S.bus.</i></li> </ul>	
<p><b>LOT 20: UAV VIDEO CAMERAS AND ACCESSORIES ABC: Php 196,100.00</b></p> <p>Delivery period: <b>Thirty (30) calendar days</b>                  Delivery and Installation: <b>CARIM Bldg., UP Mindanao Mintal, Tugbok District, Davao City</b></p>		
<p><b>UAV VIDEO CAMERAS AND ACCESSORIES: 1 Set Datalink: Ground Unit (95g/PCB) w/ antenna (85g) &amp; UAV Module (58g/PCB) w/ antenna (22g); 2.4GHz,5.8GHz; Up to 300Mbps, optimal 20Mbps w/in 5km; Max 10km at LOS; addt'l 1 Air Unit; Antenna (sender): Omni Direction</b></p> <p style="text-align: right;"><b>ABC: Php 196,100.00</b></p>		
<p><b>In the box of 1 Set Datalink:</b></p> <ol style="list-style-type: none"> <li>1) 1 Ground Unit w/ Antenna</li> <li>2) 1 UAV Module w/ Antenna</li> <li>3) Cables and Charger</li> <li>4) Manuals</li> <li>5) At least 1 Year Warranty</li> </ol>		
<p><b>Specifications of 1 Set Datalink:</b></p> <p>@General</p> <ul style="list-style-type: none"> <li>• <i>Operating Temperature: -20°C ~ +70°C;</i></li> <li>• <i>Humidity: 5% to 95% (non-condensing);</i></li> <li>• <i>Power: USB-C(1.5A) or DC Jack 5V;</i></li> <li>• <i>Dimension: W105 x L100 x H18 mm (Ground Unit), W80 x L50 x H25 mm (UAV unit);</i></li> <li>• <i>Weight (PCB Only): 95g (Ground Unit), 58g (UAV unit).</i></li> </ul>		

	<p><b>@Wireless</b></p> <ul style="list-style-type: none"> <li>• Standards:</li> <li>• IEEE802.11a/n/h/s for Wireless LAN,</li> <li>• IEEE802.11i for Wireless Security,</li> <li>• IEEE802.3u for 10/100/1000T(X) Full Duplex;</li> <li>• Operation Mode: Access Point, Bridge;</li> <li>• Wireless Standard: IEEE802.11a/b/g, 802.11n;</li> <li>• Frequency Range: 2.4GHz, 5.8GHz;</li> <li>• Rate: Optimal 20Mbps, Max 300Mbps;</li> <li>• Modulation: 11n (HT20/HT40) : MCS0 ~ MCS15 (OFDM);</li> <li>• Sensitivity: 5.8 GHz, OFDM 6Mbps : -90dBm, 54Mbps : -73dBm;</li> <li>• Bandwidth: Ability to configure 20 and 40MHz channel bandwidth, Transmit Power Control(TPC);</li> <li>• Device Managements:</li> <li>• Administrator ID/PW, Station &amp; AP Associated Information,</li> <li>• System Information, Telnet/SSH Server Support,</li> <li>• Web-based Configuration, Upgrade through HTTP/TFTP,</li> <li>• Event Log (WEB Interface), Factory Default.</li> </ul> <p><b>@Network Interface:</b></p> <ul style="list-style-type: none"> <li>• 2 x Serial Ports, 1 x micro USB Port(USB to Serial),</li> <li>• 2 x USB2.0 Ports, 1 x LTE PCI-E Slot, 1 x USIM Slot,</li> <li>• 1 x Ethernet 10/100/1000BASE-T(RJ-45) Auto negotiation speed;</li> <li>• LAN / WAN: IP, Subnet, Gateway;</li> <li>• DHCP: Server/Client;</li> <li>• Protocol:</li> <li>• TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS,</li> <li>• SSL, DHCP, PPPoE, FTP, SMTP, ICMP, IGMP, ARP, DNS;</li> <li>• Security:</li> <li>• SSID Protection, 64bit-128bit WEP Encryption, 802.11i, AES and/or TKIP,</li> <li>• WPA2.0(with Radius Server or Pre- Shared Key), WPA, 802.1x Authentication,</li> <li>• IP/MAC Filtering (Allow, Deny), HTTPS(SSL) Encryption, Password Protection;</li> <li>• Operating Range: Max 10Km at LOS.</li> </ul> <p><b>@Antenna:</b></p> <ul style="list-style-type: none"> <li>• MIMO 2x2 Antenna Outdoor Type;</li> <li>• Receiver:</li> <li>• Frequency Range: 5150-5850Ghz; Beamwidth: Vertical 7° Horizontal 360°;</li> <li>• Gain: 12 dBi; Impedance: 50 Ω; Dimension: Φ14x490 mm; Weight: 85g.</li> <li>• Sender:</li> <li>• Frequency Range: 5150-5850Ghz; Type: Omni direction;</li> <li>• Gain: 6 dBi; Impedance: 50 Ω; Dimension: Φ15x150 mm; Weight: 22g.</li> </ul>	
<p><b>LOT 21: ON-BOARD COMPUTERS AND DEVELOPMENT KITS      ABC: Php 410,000.00</b></p> <p>Delivery period: <b>Thirty (30) calendar days</b>          Delivery and Installation: <b>CARIM Bldg., UP Mindanao Mintal, Tugbok District, Davao City</b></p>		

	<b>1 256GB SATA-SSD ON-BOARD COMPUTER w/ OSDK expansion module or equivalent</b>
	<b>1 128GB SATA-SSD ON-BOARD COMPUTER w/ OSDK expansion module or equivalent</b>
	<b>1 100x87mm module or equivalent</b>
	<b>1 32TOPS developer kit or equivalent</b>
	<b>2 70x45mm module or equivalent</b>
	<b>1 21TOPS developer kit or equivalent</b>
	<p><b><i>In the box of 1 256GB SATA-SSD onboard comp with OSDK expansion module, or equivalent:</i></b></p> <ul style="list-style-type: none"> <li>1) 1 Manifold 2-C</li> <li>2) 1 Power Distribution Unit</li> <li>3) 1 USB 3.0 Hub</li> <li>4) 1 AC Power Adapter</li> <li>5) 1 Button I/O Extension Unit</li> <li>6) 1 Assembly Bracket Set</li> <li>7) 1 AC Power Cable</li> <li>8) CAN, UART, Micro USB, I/O, OTG Cables</li> <li>9) Power Cables</li> <li>10) Manuals</li> <li>11) OSDK expansion module: Bracket A (upper) x 2, Bracket B (left) x 1, Bracket C (right) x 1, Bracket D (reinforcing rib) x 3, Bracket connection block x 4, OSDK adapter plate module x 1, USB cable (with two type-A ports) x 1, XT30 power cable x 1, Wire clip x 3, Foot pad x 3, Hand screw x 5, Screw A (M1.6) x 15, Screw B (M2.0) x 5, Screw C (M3.0) x 5, Screw D (M1.6 step) x 3, Screwdriver kit x 1.</li> <li>12) At least 1 Year Warranty</li> </ul>
	<p><b><i>In the box of 1 128GB SATA-SSD onboard comp with OSDK expansion module, or equivalent:</i></b></p> <ul style="list-style-type: none"> <li>1) 1 Manifold 2-G</li> <li>2) 1 Power Distribution Unit</li> <li>3) 1 USB 3.0 Hub</li> <li>4) 1 AC Power Adapter</li> <li>5) 1 Button I/O Extension Unit</li> <li>6) 1 Assembly Bracket Set</li> <li>7) 2 Wi-Fi Antenna</li> <li>8) 1 AC Power Cable</li> <li>9) CAN, UART, Micro USB, I/O, OTG Cables</li> <li>10) Power Cables</li> <li>11) Manuals</li> <li>12) OSDK expansion module: Bracket A (upper) x 2, Bracket B (left) x 1, Bracket C (right) x 1, Bracket D (reinforcing rib) x 3, Bracket connection block x 4, OSDK adapter plate module x 1, USB cable (with two type-A ports) x 1, XT30 power cable x 1, Wire clip x 3, Foot pad x 3, Hand screw x 5, Screw A (M1.6) x 15, Screw B (M2.0) x 5, Screw C (M3.0) x 5, Screw D (M1.6 step) x 3, Screwdriver kit x 1.</li> <li>13) At least 1 Year Warranty</li> </ul>
	<p><b><i>In the box of 1 100x87mm module or equivalent:</i></b></p> <ul style="list-style-type: none"> <li>1) 1 Jetson AGX Xavier 32GB Module</li> </ul>

	<p>2) At least 1 Year Warranty</p>	
	<p><b>In the box of 1 32 TOPS developer kit or equivalent:</b></p> <ol style="list-style-type: none"> <li>1) 1 Jetson® AGX Xavier™ module (P2888) with thermal solution</li> <li>2) 1 Reference carrier board (P2822)</li> <li>3) 1 Power supply with AC cord</li> <li>4) 1 Type C to Type A cable (USB 3.1 Gen2)</li> <li>5) Type C to Type A adapter (USB 3.1 Gen 1)</li> <li>6) At least 1 Year Warranty</li> </ol>	
	<p><b>In the box of 2 70x45mm module or equivalent:</b></p> <ol style="list-style-type: none"> <li>1) 2 Jetson Xavier NX modules</li> <li>2) At least 1 Year Warranty</li> </ol>	
	<p><b>In the box of 1 21 TOPS developer kit w/ cloud-native support or equivalent:</b></p> <ol style="list-style-type: none"> <li>1) 1 Jetson Xavier NX module with heatsink. This version of the module (P3668-0000) is only for use in a developer kit and is not intended for production environments.</li> <li>2) 1 Reference carrier board (P3509-0000)</li> <li>3) 1 Power supply with AC cord</li> <li>4) 1 19-volt power supply</li> <li>5) 1 power cable</li> <li>6) 1 802.11 plug-in WLAN and Bluetooth® module with antennas (assembled underneath the carrier board)</li> <li>7) 1 small paper card with quick start and support information</li> <li>8) At least 1 Year Warranty</li> </ol>	
	<p><b>Specifications of 1 256GB SATA-SSD onboard comp with OSDK expansion module or equivalent:</b></p> <p>1 set powerful onboard computer with OSDK expansion module or equivalent: Intel Core i7-8550U processor; 8GB 64 bit, DDR4 2400 MHz memory; 256 GB SATA-SSD; 91 x 61 x 35mm; 205g; 1000Mbps Ethernet RJ-45 Port; 5-60W; includes power distribution unit, hub, adapter, button I/O extension unit, assembly bracket set, cables, or equivalent:</p> <ul style="list-style-type: none"> <li>• for robotics applications and real-time data analysis;</li> <li>• Model: MF2C or equivalent;</li> <li>• Weight: Approx. 205 g or equivalent;</li> <li>• Dimensions: 91 x 61 x 35 mm or equivalent;</li> <li>• Processor: Intel Core i7-8550U or equivalent;</li> <li>• Memory: 8GB 64 bit, DDR4 2400 MHz or equivalent;</li> <li>• eMMC: N/A;</li> <li>• SATA-SSD: 256 GB or equivalent;</li> <li>• Network: 1000Mbps Ethernet RJ-45 Port or equivalent;</li> <li>• USB: USB 3.0 Port (Type A) x 2, USB 3.0 Port (Micro-B) x 1</li> <li>• I/O: UART Port 1;</li> <li>• Power: 5 - 60 W;</li> <li>• Power Supply: 15.2 - 27.0 V Power Port 2 Independent Power Supply;</li> <li>• Operating Temperature: -13 to 113 °F (-25 to 45 °C).</li> <li>• OSDK expansion module or equivalent As-assembled size: 200 x 120 x 40 mm.</li> </ul>	
	<p><b>Specifications of 1 128GB SATA-SSD onboard comp with OSDK expansion module or equivalent:</b></p>	

	<p>1 set powerful onboard computer with OSDK expansion module or equivalent: NVIDIA Jetson TX2 processor; 8GB 128 bit, DDR4 1333 MHz memory; 128 GB SATA-SSD; 91 x 61 x 35mm; 230g; 1000Mbps Ethernet RJ-45 Port, Wi-Fi, Operating Frequency: 2.4 GHz, 5.8 GHz;3-25W; includes WiFi antenna, power distribution unit, hub, adapter, button I/O extension unit, assembly bracket set, cables, or equivalent:</p> <ul style="list-style-type: none"> <li>• for AI, image processing, motion analysis, and object recognition;</li> <li>• Model: MF2G or equivalent;</li> <li>• Weight: Approx. 230 g; Dimensions: 91 x 61 x 35 mm or equivalent;</li> <li>• Processor: NVIDIA Jetson TX2 or equivalent;</li> <li>• Memory: 8GB 128 bit, DDR4 1333 MHz or equivalent;</li> <li>• eMMC: 32 GB (approx. 28 GB available) or equivalent;</li> <li>• SATA-SSD: 128 GB or equivalent;</li> <li>• Network: 1000Mbps Ethernet RJ-45 Port, Wi-Fi, Transmission Standard: IEEE,</li> <li>• 802.11a/b/g/n/ac, Max Transmission Speed: 866.7 Mbps, or equivalent</li> <li>• Operating Frequency: 2.4000 - 2.4835 GHz, 5.150 - 5.250 GHz*;</li> <li>• 5.250 - 5.350 GHz* or equivalent,</li> <li>• *limited to indoor use.</li> <li>• EIRP: &lt; 20 dBm (2.4000 - 2.4835 GHz), &lt; 20 dBm (5.150 - 5.250 GHz), &lt; 23 dBm (5.250 - 5.350 GHz) or equivalent;</li> <li>• USB: USB 3.0 Port (Type A) x 2, USB 3.0 Port (Micro-B) x 1;</li> <li>• I/O: CAN Port 2, UART Port 2, I2C Port 1, SPI Port 1;</li> <li>• Power: 3 - 25 W; Power Supply: 13.2 - 27.0 V Power Port 2 Independent Power Supply;</li> <li>• Operating Temperature: -13 to 113 °F (-25 to 45 °C).</li> <li>• OSDK expansion module or equivalent As-assembled size: 200 x 120 x 40 mm.</li> </ul>	
	<p><b>Specifications of 1 100x87mm module or equivalent:</b></p> <p>1 high performance module: 100x87mm; 32 TOPS at 10W; GPU: NVIDIA Volta™ architecture w/ 512 NVIDIA CUDA cores &amp; 64 Tensor cores; CPU: 8-Core Carmel ARM v8.2 64-Bit CPU, 8 MB L2 + 4 MB L3; Memory: 32 GB 256-bit LPDDR4x 136.5GB/s; Storage: 32 GB eMMC 5.1, or equivalent:</p> <ul style="list-style-type: none"> <li>• GPU: NVIDIA Volta™ architecture with 512, NVIDIA CUDA cores and 64 Tensor cores, 22 TOPS (INT8) or equivalent;</li> <li>• CPU: 8-Core Carmel ARM v8.2 64-Bit CPU, 8 MB L2 + 4 MB L3 or equivalent;</li> <li>• Memory: 32 GB 256-bit LPDDR4x 136.5GB/s or equivalent;</li> <li>• Storage: 32 GB eMMC 5.1 or equivalent;</li> <li>• Video Encoder: 4x 4K60 (H.265)   8x 4K30 (H.265)   16x 1080p60 (H.265)   32x 1080p30 (H.265)   30x1080p30 (H.264) or equivalent;</li> <li>• Video Decoder: 2x 8K30 (H.265)   6x 4K60 (H.265)   12x 4K30 (H.265)   26x 1080p60 (H.265)   52x 1080p30 (H.265)   30x 1080p30 (H.264) or equivalent;</li> <li>• Connectivity: Wi-Fi requires external chip or equivalent;</li> <li>• Display: 3 multi-mode DP 1.4/eDP 1.4/HDMI 2.0   No DSI support or equivalent;</li> <li>• Others: USB 2.0, UART, SPI, CAN, I2C, I2S, DMIC &amp; DSPK, GPIOs or equivalent;</li> </ul>	

	<ul style="list-style-type: none"> <li>• <i>Mechanical: 100 x 87mm, 699 pin Molex Mirror Mezz Connector, Integrated Thermal Transfer Plate or equivalent;</i></li> <li>• <i>UPHY: (8x) PCIe Gen4 / (8x) SLVS-EC, (3x) USB 3.1, Single Lane UFS or equivalent;</i></li> <li>• <i>AI Perf: 32 TOPS or equivalent;</i></li> <li>• <i>Power: 10W   15W   30W;</i></li> <li>• <i>PCIe: 1 x8 + 1 x4 + 1 x2 + 2 x1 (PCIe Gen4, Root Port &amp; Endpoint);</i></li> <li>• <i>CSI Camera: Up to 6 cameras (36 via virtual channels)   16 lanes MIPI CSI-2   D-PHY 1.2 (up to 40Gbps)   C-PHY 1.1 (up to 62Gbps);</i></li> <li>• <i>DL Accelerator: 2x NVDLA Engines, 10 TOPS (INT8);</i></li> <li>• <i>Vision Accelerator: 2x 7-Way VLIW Vision Processor;</i></li> <li>• <i>Networking: 10/100/1000 BASE-T Ethernet.</i></li> </ul>	
	<p><b>Specifications of 1 32 TOPS developer kit or equivalent:</b></p> <p><i>1 set high performance AI computer developer kit w/ thermal solution, carrier board, AC power supply: 32 TOPS; GPU: 512-Core Volta GPU w/ Tensor Cores; CPU: 8-Core ARM v8.2 64-Bit CPU, 8 MB L2 + 4 MB L3; Memory: 32 GB 256-Bit LPDDR4x   137 GB/s; Storage: 32 GB eMMC 5.1, or equivalent:</i></p> <ul style="list-style-type: none"> <li>• <i>GPU: 512-Core Volta GPU with 64 Tensor Cores or equivalent;</i></li> <li>• <i>CPU: 8-Core ARM v8.2 64-Bit CPU, 8 MB L2 + 4 MB L3 or equivalent;</i></li> <li>• <i>Memory: 32 GB 256-Bit LPDDR4x   137 GB/s or equivalent;</i></li> <li>• <i>Storage: 32 GB eMMC 5.1 or equivalent;</i></li> <li>• <i>Video encoder: 4x 4K @ 60 (HEVC)   16x 1080p @ 60 (HEVC)   32x 1080p @ 30 (HEVC) or equivalent;</i></li> <li>• <i>Video decoder: 2x 8K @ 30 (HEVC)   6x 4K @ 60 (HEVC)   26x 1080p @ 60 (HEVC)   72x 1080p @ 30 (HEVC) or equivalent;</i></li> <li>• <i>Display HDMI 2.0 Type A, 2x DisplayPort via USB-C or equivalent;</i></li> <li>• <i>USB: 2x USB-C 3.1 (supporting DisplayPort and USB PD), Micro-USB 2.0 (serial port interface only) or equivalent;</i></li> <li>• <i>Others: M.2 Key M (NVMe), M.2 Key E (PCIe x1 + USB 2.0 + UART (for Wi-Fi/LTE) / I2S + DMIC + GPIOs), 40-pin header (UART, SPI, CAN, I2C, I2S, DMIC, GPIOs), MicroSD / UFS card slot, eSATAp (eSATA   USB 3.0 Type-A), 10-pin audio header, 8-pin automation header (system power and related signals), 4-pin fan header;</i></li> <li>• <i>Mechanical: 100 mm x87 mm x 65mm   699-pin connector or equivalent;</i></li> <li>• <i>AI Perf: 32 TOPS or equivalent;</i></li> <li>• <i>Power: 10W   15W   30W (DC power jack);</i></li> <li>• <i>PCIe: x16 connector with x8 PCIe Gen4 or x8 SLVS-EC;</i></li> <li>• <i>CSI Camera: Up to 6 cameras (36 via virtual channels)   16 lanes MIPI CSI-2   8 lanes SLVS-EC   D-PHY 1.2 (up to 40 Gbps)   C-PHY 1.1 (up to 91 Gbps);</i></li> <li>• <i>DL Accelerator: 2x NVDLA Engines;</i></li> <li>• <i>Vision Accelerator: 7-Way VLIW Vision Processor;</i></li> <li>• <i>Networking: 10/100/1000 BASE-T Ethernet (RJ45, Gigabit Ethernet);</i></li> <li>• <i>M2 KEY M: NVMe.</i></li> </ul>	
	<p><b>Specifications of 2 70x45mm modules or equivalent:</b></p>	



	<p>2 small supercomputer modules: 70x45mm; AI Perf: 21 TOPS at 15-20W; GPU: 384-core NVIDIA Volta™ GPU w/ 48 Tensor Cores; CPU: 6-core NVIDIA Carmel ARM@v8.2 64-bit CPU 6MB L2 + 4MB L3; Memory: 8GB 128-bit LPDDR4x 59.7GB/s; Storage: 16 GB eMMC 5.1, or equivalent:</p> <ul style="list-style-type: none"> <li>• GPU: 384-core NVIDIA Volta™ GPU with 48 Tensor Cores or equivalent;</li> <li>• CPU: 6-core NVIDIA Carmel ARM@v8.2 64-bit CPU 6MB L2 + 4MB L3 or equivalent;</li> <li>• Memory: 8 GB 128-bit LPDDR4x 59.7GB/s or equivalent;</li> <li>• Storage: 16 GB eMMC 5.1 or equivalent;</li> <li>• Video Encoder: 2x 4K60   4x 4K30   10x 1080p60   22x 1080p30 (H.265)   2x 4K60   4x 4K30   10x 1080p60   20x 108p30 (H.264) or equivalent;</li> <li>• Video Decoder: 2x 8K30   6x 4K60   12x 4K30   22x 1080p60   44x 1080p30 (H.265)   2x 4K60   6x 4K30   10x 1080p60   22x 1080p30 (H.264) or equivalent;</li> <li>• Display: 2 multi-mode DP 1.4/eDP 1.4/HDMI 2.0 or equivalent;</li> <li>• Mechanical: 69.6 mm x 45 mm 260-pin SO-DIMM connector or equivalent;</li> <li>• AI Perf: 21 TOPS or equivalent;</li> <li>• Power: 10W   15W   20W;</li> <li>• PCIe: 1 x1 (PCIe Gen3) + 1 x4 (PCIe Gen4), total 144 GT/s;</li> <li>• CSI Camera: Up to 6 cameras (24 via virtual channels)   12 lanes (3x4 or 6x2) MIPI CSI-2   D-PHY 1.2 (up to 30 Gbps);</li> <li>• DL Accelerator: 2x NVDLA Engines;</li> <li>• Vision Accelerator: 7-Way VLIW Vision Processor;</li> <li>• Networking: 10/100/1000 BASE-T Ethernet.</li> </ul>	
	<p><b>Specifications of 1 21 TOPS dev. kit w/ cloud-native support or equivalent:</b></p> <p>1 set supercomputer developer kit w/ cloud-native support; w/ heatsink, carrier board &amp; AC power supply; GPU: NVIDIA Volta™ architecture w/ 384 NVIDIA@ CUDA@ cores &amp; 48 Tensor cores; CPU: 6-core NVIDIA Carmel ARM@v8.2 64-bit CPU 6 MB L2 + 4 MB L3; 21 TOPS; Memory: 8GB 128-bit LPDDR4x 59.7GB/s; Camera: 2x MIPI CSI-2 D-PHY lanes, or equivalent:</p> <ul style="list-style-type: none"> <li>• GPU: 384-core NVIDIA Volta™ GPU with 48 Tensor Cores or equivalent;</li> <li>• CPU: 6-core NVIDIA Carmel ARM@v8.2 64-bit CPU 6 MB L2 + 4 MB L3 or equivalent;</li> <li>• Memory: 8 GB 128-bit LPDDR4x 59.7GB/s or equivalent;</li> <li>• Storage: microSD;</li> <li>• Video Encoder: 2x 4K60   4x 4K30   10x 1080p60   22x 1080p30 (H.265)   2x 4K60   4x 4K30   10x 1080p60   20x 108p30 (H.264) or equivalent;</li> <li>• Video Decoder: 2x 8K30   6x 4K60   12x 4K30   22x 1080p60   44x 1080p30 (H.265)   2x 4K60   6x 4K30   10x 1080p60   22x 1080p30 (H.264) or equivalent;</li> <li>• Connectivity: Gigabit Ethernet, M.2 Key E (WiFi/BT included), M.2 Key M (NVMe) or equivalent;</li> <li>• Camera: 2x MIPI CSI-2 D-PHY lanes;</li> <li>• Display: HDMI and DP;</li> <li>• Others: GPIOs, I2C, I2S, SPI, UART;</li> </ul>	

	<ul style="list-style-type: none"> <li>• Mechanical: 103 mm x 90.5 mm x 34.66 mm or equivalent;</li> <li>• AI Perf: 21 TOPS or equivalent;</li> <li>• DL Accelerator: 2x NVDLA Engines;</li> <li>• Vision accelerator: 7-Way VLIW Vision Processor;</li> </ul>	
<b>LOT 22: FURNITURE &amp; FIXTURES</b> <span style="float: right;"><b>ABC: Php 206,800.00</b></span>		
Delivery period: <b>Thirty (30) calendar days</b> Delivery and Installation: <b>CARIM Bldg., UP Mindanao Mintal, Tugbok District, Davao City</b>		
	<b>1) L-Shaped Office Tables (7 Units)</b> Details: 140cm x 140cm x 120cm; with: glass protection, lockable cabinet drawers, CPU holder	
	<b>2) Office Tables (2 Units)</b> Details: 120cm x 60cm x 75cm; light gray; with: one key lock system, 3 drawers, laminated in particle board	
	<b>3) Stacking Chairs (10 Units)</b> Details: black; fabric cover steel frame; stacking; with: big foam	
	<b>4) Conference Table (2 Units)</b> Details: Durable that can hold heavy equipment; 300cm x 120cm x 76cm; Materials: MDF Board Laminate Steel Structure	
	<b>5) Large Rack (1 Unit)</b> Details: 4-layer adjustable 200cm x 60cm x 200cm; 150kg per layer; color blue	
	<ul style="list-style-type: none"> <li>• Free Delivery</li> </ul>	
<b>LOT 23: FURNITURE &amp; FIXTURES</b> <span style="float: right;"><b>ABC: Php 129,500.00</b></span>		
Delivery period: <b>Thirty (30) calendar days</b> Delivery and Installation: <b>CARIM Bldg., UP Mindanao Mintal, Tugbok District, Davao City</b>		
	<b>1) High Back Chairs (7 Units)</b> Details: 52cm x 55cm x 75cm; 52cm up & 45cm down; black; reclining; with: 47cm footrest leatherette upholstered	
	<b>2) Office Chairs (4 Units)</b> Details: mesh upholstered; chrome base; black; with: arm, tilt& lock mechanism	
	<b>3) Executive Chair (1 Unit)</b> Details: dark brown; high back; silver coated nylon base; with: arm, reclining mechanism	
	<b>4) Counter Table with 5 Chairs (1 Set)</b> Details: dimensions L180 x W70 x H105cm; Metal frame bar with wooden top; WITH high chairs	
	<b>5) Foldable 8-Seater Table (1 Unit)</b> Details: 8 ft fold in half; plastic material; metal frame; dimensions 244 x 76 x 74; color: white	
	<b>6) Medium Lockable Office Cabinets (2 Units)</b> Details: Two door office metal cabinet; swing door and lock; dimensions 120 x 90 x 40; light gray color	
	<ul style="list-style-type: none"> <li>• Free Delivery</li> </ul>	
<b>LOT 24: FURNITURE &amp; FIXTURES</b> <span style="float: right;"><b>ABC: Php 76,450.00</b></span>		
Delivery period: <b>Thirty (30) calendar days</b>		

Delivery and Installation: <b>CARIM Bldg., UP Mindanao Mintal, Tugbok District, Davao City</b>		
	<b>1) Large Office Sofa (1 Unit)</b> Details: dimensions L33" x W91" x H67"; L-Type sofa; Leather upholstery; Color: black	
	<b>2) Medium Lockable Office Cabinets (2 Units)</b> Details: Size 400W x 550D x 650H mm; Medium cabinet; five-wheel caster with divider; powder beige color	
	<b>3) Medium Lockable Office Cabinet (1 Unit)</b> Details: Two pull-out steel door cabinet; 5 shelves; Dimensions: 900Wx 450D x 1802H mm	
	<b>4) Large Rack (1 Unit)</b> Details: Four-shelf open steel rack	
	• 1 Year Warranty, Free Delivery	
<b>LOT 25: One Lot: UAV control / telemetry visualization devices (SMARTPHONE)</b> <b>ABC: Php 23,000.00</b>		
Delivery period: <b>Thirty (30) calendar days</b> Delivery and Installation: <b>CARIM Bldg., UP Mindanao Mintal, Tugbok District, Davao City</b>		
	<b>SMARTPHONE (iOS) - Details: Onetime cash out payment for 24-month postpaid plan of one (1) unit iOS smartphone with 256 GB storage capacity and unlimited calls &amp; texts</b>	
<b>LOT 26: One Lot: UAV control / telemetry visualization devices (TABLET)</b> <b>ABC: Php 35,000.00</b>		
Delivery period: <b>Thirty (30) calendar days</b> Delivery and Installation: <b>CARIM Bldg., UP Mindanao Mintal, Tugbok District, Davao City</b>		
	<b>TABLET - 10.9-inch (diagonal)/64GB/iOS 14/Liquid Retina display/4K video recording at 24 fps, 30 fps, or 60 fps/A14 Bionic chip with 64-bit architecture, Neural Engine/Nano Sim; e-Sim/Touch ID; Three-axis gyro/USB-C Charger</b>	

# SAMPLE FORMS

1. Bid Form
2. Bid Securing Declaration Form
3. Omnibus Sworn Statement (Revised)
4. Contract Agreement for the Procurement of Goods  
(Revised)

*Note: Price Schedule Forms are in a separate file.*

**Bid Form for the Procurement of Goods**  
*[shall be submitted with the Bid]*

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**BID FORM**

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

Project Identification No. : \_\_\_\_\_

To: *[name and address of Procuring Entity]*

Having examined the Philippine Bidding Documents (PBDs) including the Supplemental or Bid Bulletin Numbers *[insert numbers]*, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to *[supply/deliver/perform]* **[Lot No. and description of the Goods]** in conformity with the said PBDs for the sum of *[total Bid amount in words and figures]* or the total calculated bid price, as evaluated and corrected for computational errors, and other bid modifications in accordance with the Price Schedules attached herewith and made part of this Bid. The total bid price includes the cost of all taxes, such as, but not limited to: *[specify the applicable taxes, e.g. (i) value added tax (VAT), (ii) income tax, (iii) local taxes, and (iv) other fiscal levies and duties]*, which are itemized herein or in the Price Schedules,

If our Bid is accepted, we undertake:

- a. to deliver the goods in accordance with the delivery schedule specified in the Schedule of Requirements of the Philippine Bidding Documents (PBDs);
- b. to provide a performance security in the form, amounts, and within the times prescribed in the PBDs;
- c. to abide by the Bid Validity Period specified in the PBDs and it shall remain binding upon us at any time before the expiration of that period.

*[Insert this paragraph if Foreign-Assisted Project with the Development Partner:*

Commissions or gratuities, if any, paid or to be paid by us to agents relating to this Bid, and to contract execution if we are awarded the contract, are listed below:

Name and address Amount and Purpose of  
of agent Currency Commission or gratuity

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(if none, state "None") ]

Until a formal Contract is prepared and executed, this Bid, together with your written acceptance thereof and your Notice of Award, shall be binding upon us.

We understand that you are not bound to accept the Lowest Calculated Bid or any Bid you may receive.

We certify/confirm that we comply with the eligibility requirements pursuant to the PBDs.

The undersigned is authorized to submit the bid on behalf of *[name of the bidder]* as evidenced by the attached *[state the written authority]*.

We acknowledge that failure to sign each and every page of this Bid Form, including the attached Schedule of Prices, shall be a ground for the rejection of our bid.

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

Legal capacity: \_\_\_\_\_

Signature: \_\_\_\_\_

Duly authorized to sign the Bid for and behalf of: \_\_\_\_\_

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

## Bid Securing Declaration Form

*[shall be submitted with the Bid if bidder opts to provide this form of bid security]*

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REPUBLIC OF THE PHILIPPINES)

CITY OF \_\_\_\_\_) S.S.

### BID SECURING DECLARATION

**Project Identification No.: *[Insert number]***

To: *[Insert name and address of the Procuring Entity]*

I/We, the undersigned, declare that:

1. I/We understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid Securing Declaration.
2. I/We accept that: (a) I/we will be automatically disqualified from bidding for any procurement contract with any procuring entity for a period of two (2) years upon receipt of your Blacklisting Order; and, (b) I/we will pay the applicable fine provided under Section 6 of the Guidelines on the Use of Bid Securing Declaration, within fifteen (15) days from receipt of the written demand by the procuring entity for the commission of acts resulting to the enforcement of the bid securing declaration under Sections 23.1(b), 34.2, 40.1 and 69.1, except 69.1(f), of the IRR of RA No. 9184; without prejudice to other legal action the government may undertake.
3. I/We understand that this Bid Securing Declaration shall cease to be valid on the following circumstances:
  - a. Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
  - b. I am/we are declared ineligible or post-disqualified upon receipt of your notice to such effect, and (i) I/we failed to timely file a request for reconsideration or (ii) I/we filed a waiver to avail of said right; and
  - c. I am/we are declared the bidder with the Lowest Calculated Responsive Bid, and I/we have furnished the performance security and signed the Contract.

IN WITNESS WHEREOF, I/We have hereunto set my/our hand/s this \_\_\_\_ day of *[month]* *[year]* at *[place of execution]*.

*[Insert NAME OF BIDDER OR ITS AUTHORIZED  
REPRESENTATIVE]*

*[Insert signatory's legal capacity]*

Affiant

**[Jurat]**

*[Format shall be based on the latest Rules on Notarial Practice]*



## Omnibus Sworn Statement (Revised)

*[shall be submitted with the Bid]*

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REPUBLIC OF THE PHILIPPINES )

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 or authorized representative 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, or authorized representative of [Name of Bidder], I have full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached duly notarized Special Power of Attorney;

*[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 to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached [state title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate, Board/Partnership Resolution, or Special Power of Attorney, whichever is applicable)];

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, **by itself or by relation, membership, association, affiliation, or**

**controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting;**

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. *[Select one, delete the rest:]*

*[If a sole proprietorship:]* 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;

*[If a partnership or cooperative:]* None of the officers and members of [Name of Bidder] is 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;

*[If a corporation or joint venture:]* None of the officers, directors, and controlling stockholders of [Name of Bidder] is 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
8. [Name of Bidder] is aware of and has undertaken the responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:
  - a. Carefully examining all of the Bidding Documents;
  - b. Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
  - c. Making an estimate of the facilities available and needed for the contract to be bid, if any; and
  - d. 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.

*[Insert NAME OF BIDDER OR ITS AUTHORIZED REPRESENTATIVE]*

*[Insert signatory's legal capacity]*

Affiant

**[Jurat]**

*[Format shall be based on the latest Rules on Notarial Practice]*

## Contract Agreement Form for the Procurement of Goods (Revised)

*[Not required to be submitted with the Bid, but it shall be submitted within ten (10) days after receiving the Notice of Award]*

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### CONTRACT AGREEMENT

THIS AGREEMENT made the \_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_ between [name of PROCURING ENTITY] of the Philippines (hereinafter called “the Entity”) of the one part and [name of Supplier] of [city and country of Supplier] (hereinafter called “the Supplier”) of the other part;

WHEREAS, the Entity invited Bids for certain goods and ancillary services, particularly [brief description of goods and services] and has accepted a Bid by the Supplier for the supply of those goods and services in the sum of [*contract price in words and figures in specified currency*] (hereinafter called “the Contract Price”).

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
2. The following documents as required by the 2016 revised Implementing Rules and Regulations of Republic Act No. 9184 shall be deemed to form and be read and construed as integral part of this Agreement, *viz.*:
  - i. Philippine Bidding Documents (PBDs);
    - i. Schedule of Requirements;
    - ii. Technical Specifications;
    - iii. General and Special Conditions of Contract; and
    - iv. Supplemental or Bid Bulletins, if any
  - ii. Winning bidder’s bid, including the Eligibility requirements, Technical and Financial Proposals, and all other documents or statements submitted;

Bid form, including all the documents/statements contained in the Bidder’s bidding envelopes, as annexes, and all other documents submitted (*e.g.*, Bidder’s response to request for clarifications on the bid), including corrections to the bid, if any, resulting from the Procuring Entity’s bid evaluation;

- iii. Performance Security;
  - iv. Notice of Award of Contract; and the Bidder's conforme thereto; and
  - v. Other contract documents that may be required by existing laws and/or the Procuring Entity concerned in the PBDs. **Winning bidder agrees that additional contract documents or information prescribed by the GPPB that are subsequently required for submission after the contract execution, such as the Notice to Proceed, Variation Orders, and Warranty Security, shall likewise form part of the Contract.**
3. In consideration for the sum of *[total contract price in words and figures]* or such other sums as may be ascertained, *[Named of the bidder]* agrees to *[state the object of the contract]* in accordance with his/her/its Bid.
  4. The *[Name of the procuring entity]* agrees to pay the above-mentioned sum in accordance with the terms of the Bidding.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of the Republic of the Philippines on the day and year first above written.

<i>[Insert Name and Signature]</i>	<i>[Insert Name and Signature]</i>
<i>[Insert Signatory's Legal Capacity]</i>	<i>[Insert Signatory's Legal Capacity]</i>
 <i>for:</i>	 <i>for:</i>
 <i>[Insert Procuring Entity]</i>	 <i>[Insert Name of Supplier]</i>

**Acknowledgment**

*[Format shall be based on the latest Rules on Notarial Practice]*