



**Bureau of Soils and Water Management
PHILIPPINE BIDDING DOCUMENTS**

(As Harmonized with Development Partners)

**SUPPLY AND DELIVERY OF ICT
HARDWARE, SOFTWARE,
NETWORK EQUIPMENT, AND
VARIOUS SUPPLIES AND
PERIPHERALS FOR BATCH 5
FOR CY 2021**

IB No: BSWM-2021-09-043

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September 2021**

PHILIPPINE BIDDING DOCUMENTS

(As Harmonized with Development Partners)

Procurement of GOODS

Government of the Republic of the Philippines

Sixth Edition

July 2020

Preface

These Philippine Bidding Documents (PBDs) for the procurement of Goods through Competitive Bidding have been prepared by the Government of the Philippines for use by any branch, constitutional commission or office, agency, department, bureau, office, or instrumentality of the Government of the Philippines, National Government Agencies, including Government-Owned and/or Controlled Corporations, Government Financing Institutions, State Universities and Colleges, and Local Government Unit. The procedures and practices presented in this document have been developed through broad experience, and are for mandatory use in projects that are financed in whole or in part by the Government of the Philippines or any foreign government/foreign or international financing institution in accordance with the provisions of the 2016 revised Implementing Rules and Regulations of Republic Act No. 9184.

The Bidding Documents shall clearly and adequately define, among others: (i) the objectives, scope, and expected outputs and/or results of the proposed contract or Framework Agreement, as the case may be; (ii) the eligibility requirements of Bidders; (iii) the expected contract or Framework Agreement duration, the estimated quantity in the case of procurement of goods, delivery schedule and/or time frame; and (iv) the obligations, duties, and/or functions of the winning bidder.

Care should be taken to check the relevance of the provisions of the PBDs against the requirements of the specific Goods to be procured. If duplication of a subject is inevitable in other sections of the document prepared by the Procuring Entity, care must be exercised to avoid contradictions between clauses dealing with the same matter.

Moreover, each section is prepared with notes intended only as information for the Procuring Entity or the person drafting the Bidding Documents. They shall not be included in the final documents. The following general directions should be observed when using the documents:

- a. All the documents listed in the Table of Contents are normally required for the procurement of Goods. However, they should be adapted as necessary to the circumstances of the particular Procurement Project.
- b. Specific details, such as the “*name of the Procuring Entity*” and “*address for bid submission,*” should be furnished in the Instructions to Bidders, Bid Data Sheet, and Special Conditions of Contract. The final documents should contain neither blank spaces nor options.
- c. This Preface and the footnotes or notes in italics included in the Invitation to Bid, Bid Data Sheet, General Conditions of Contract, Special Conditions of Contract, Schedule of Requirements, and Specifications are not part of the text of the final document, although they contain instructions that the Procuring Entity should strictly follow.
- d. The cover should be modified as required to identify the Bidding Documents as to the Procurement Project, Project Identification Number, and Procuring Entity, in addition to the date of issue.
- e. Modifications for specific Procurement Project details should be provided in the Special Conditions of Contract as amendments to the Conditions of Contract. For easy completion, whenever reference has to be made to specific clauses in the Bid Data Sheet or Special Conditions of Contract, these terms shall be printed in bold typeface on Sections I (Instructions to Bidders) and III (General Conditions of Contract), respectively.
- f. For guidelines on the use of Bidding Forms and the procurement of Foreign-Assisted Projects, these will be covered by a separate issuance of the Government Procurement Policy Board.

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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

Notes on the Invitation to Bid

The Invitation to Bid (IB) provides information that enables potential Bidders to decide whether to participate in the procurement at hand. The IB shall be posted in accordance with Section 21.2 of the 2016 revised IRR of RA No. 9184.

Apart from the essential items listed in the Bidding Documents, the IB should also indicate the following:

- a. The date of availability of the Bidding Documents, which shall be from the time the IB is first advertised/posted until the deadline for the submission and receipt of bids;
- b. The place where the Bidding Documents may be acquired or the website where it may be downloaded;
- c. The deadline for the submission and receipt of bids; and
- d. Any important bid evaluation criteria (*e.g.*, the application of a margin of preference in bid evaluation).

The IB should be incorporated in the Bidding Documents. The information contained in the IB must conform to the Bidding Documents and in particular to the relevant information in the Bid Data Sheet.



Republic of the Philippines
Department of Agriculture
BUREAU OF SOILS AND WATER MANAGEMENT
SRDC Bldg., Elliptical Road corner Visayas Avenue,
Diliman, Quezon City

INVITATION TO BID FOR SUPPLY AND DELIVERY OF ICT HARDWARE, SOFTWARE, NETWORK EQUIPMENT, AND VARIOUS SUPPLIES AND PERIPHERALS FOR BATCH 5 FOR CY 2021- IB NO. BSWM 2021-09-043

1. The Bureau of Soils and Water Management, through the General Appropriations Act for CY 2021 and CY 2020 through SARO Number BMB-E-21-0002351 intends to apply the sum of:

**LOT 1- SUPPLY AND DELIVERY OF MICROSOFT WINDOWS SOFTWARE
(FUNDED UNDER GAA CY 2020)**

ABC: One Million Four Hundred Fifty Thousand pesos (Php 1,450,000.00)

**LOT 2- SUPPLY AND DELIVERY OF SOFTWARE AND BARCODE SOLUTIONS
(FUNDED UNDER GAA CY 2020)**

ABC: One Million pesos (Php 1,000,000.00)

**LOT 3- SUPPLY AND DELIVERY OF VARIOUS ICT SERVER SYSTEM, STORAGE,
NETWORK SECURITY, SWITCHES AND EQUIPMENT (FUNDED UNDER GAA CY
2020)**

ABC: Fifteen Million Two Hundred Thirty Thousand pesos (Php 15,230,000.00)

**LOT 4- SUPPLY AND DELIVERY OF ICT EQUIPMENT, SUPPLIES AND
PERIPHERALS (FUNDED UNDER GAA CY 2020)**

**ABC: Two Million Three Hundred Forty Thousand Five Hundred Fifty pesos (Php
2,340,550.00)**

**LOT 5- SUPPLY AND DELIVERY OF ICT EQUIPMENT, SUPPLIES AND
PERIPHERALS (FUNDED UNDER GAA CY 2021)**

**ABC: Four Million Three Hundred Seventy-One Thousand Five Hundred Thirty-Eight
pesos (Php 4,371,538.00)**

***Total ABC of the contract: Twenty-Four Million Three Hundred Ninety-Two Thousand Eighty-Eight pesos
(Php 24, 392,088.00).***

being the Approved Budget for the Contract (ABC) to payments under the contract for **SUPPLY AND DELIVERY OF ICT HARDWARE, SOFTWARE, NETWORK EQUIPMENT, AND VARIOUS SUPPLIES AND PERIPHERALS FOR BATCH 5 FOR CY 2021**. Bids received in excess of the ABC shall be automatically rejected at bid opening.

2. The Bureau of Soils and Water Management now invites bids for the above Procurement Project. **Delivery and Installation of goods is required within thirty (30) calendar days upon receipt of Notice to Proceed (NTP).** Bidders should have completed, **within two (2) consecutive years** from the date of submission and receipt of bids, **a contract similar to the Project.** The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II. Instructions to Bidders.

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

Bidding is restricted to Filipino citizens/sole proprietorships, partnerships, or organizations with at least sixty percent (60%) interest or outstanding capital stock belonging to citizens of the Philippines, and to citizens or organizations of a country the laws or regulations of which grant similar rights or privileges to Filipino citizens, pursuant to RA 5183.

4. Prospective Bidders may obtain further information from **BUREAU OF SOILS AND WATER MANAGEMENT – BIDS AND AWARDS COMMITTEE SECRETARIAT’S OFFICE** and inspect the Bidding Documents at the address given below during **MONDAY TO FRIDAY, 8:00AM TO 5:00PM EXCEPT ON DECLARED HOLIDAYS OR WORK SUSPENSION.**

5. A complete set of Bidding Documents may be acquired by interested Bidders on **October 1, 2021- October 26, 2021, 9:00AM** from the address and website below and **upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of:**

- Lot 1- Php 2,500.00**
- Lot 2- Php 1,000.00**
- Lot 3- Php 15,500.00**
- Lot 4- Php 2,400.00**
- Lot 5- Php 4,300.00**

The Procuring Entity shall allow the bidder to present its proof of payment for the fees to BAC Secretariat on or before the deadline of Submission and Opening of Bids.

6. The **BUREAU OF SOILS AND WATER MANAGEMENT** will hold a **Pre-Bid Conference¹ on October 12, 2021, 9:30AM** at **BSWM Function Room** shall be open to prospective bidders. Pre-Bid Conference **will be available “live”** thru BSWM Procurement Service FB Page (<https://www.facebook.com/bswmpms>). Furthermore, all interested bidders can participate **through videoconferencing**. Please coordinate with BAC Secretariat at least a day before the meeting at bswm.bacsec@gmail.com.

7. Bids must be duly received by the BAC Secretariat through manual submission at the office address indicated below on or before **October 26, 2021, 9:00AM**. Late bids shall not be accepted.

8. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB Clause 16.**

9. Bid opening shall be on *October 26, 2021, 9:30AM* at the **BSWM CONVENTION HALL, 2ND FLOOR, SRDC BLDG., VISAYAS AVE. COR. ELLIPTICAL ROAD, DILIMAN, QUEZON CITY** and through **videoconferencing/webcasting via ZOOM** and streamed live through BSWM Procurement Service Facebook Page. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.

During the opening of bids, Bidder's representative must present his/her Company Identification Card and Authorization Letter from the Head of the Company.

10. Schedules of the above-mentioned bidding is subject to change due to the Community Quarantine enforced by the government in line with the COVID-19 pandemic. Please refer to the BSWM PhilGEPS posting for updates (<https://www.philgeps.gov.ph/>) and BSWM Procurement Service FB Page (<https://www.facebook.com/bswmpms>) .
11. The **BUREAU OF SOILS AND WATER MANAGEMENT** 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.
12. For further information, please refer to:

DENISE A. SOLANO
BIDS AND AWARDS COMMITTEE SECRETARIAT'S OFFICE
2ND FLOOR, SRDC BLDG.,
VISAYAS AVE. COR. ELLIPTICAL ROAD,
DILIMAN, QUEZON CITY
TELEFAX NUMBER: +63-2-8352-8012; 0905-4010778
EMAIL ADDRESS: bswm.bacsec@gmail.com
WEBSITE: www.bswm.gov.ph
FB Page: <https://www.facebook.com/bswmpms>

13. You may visit the following websites:

For downloading of Bidding Documents:

PhilGEPS- <https://notices.philgeps.gov.ph/>, **BSWM Website-** www.bswm.gov.ph **or BSWM Procurement Service Facebook Page-** <https://www.facebook.com/bswmpms>

September 30, 2021

(Sgd) DR. GINA P. NILO
Chairperson, Bids and Awards Committee

Section II. Instructions to Bidders

Notes on the Instructions to Bidders

This Section on the Instruction to Bidders (ITB) provides the information necessary for bidders to prepare responsive bids, in accordance with the requirements of the Procuring Entity. It also provides information on bid submission, eligibility check, opening and evaluation of bids, post-qualification, and on the award of contract.

1. Scope of Bid

The Procuring Entity, **Bureau of Soils and Water Management** wishes to receive Bids for the **for SUPPLY AND DELIVERY OF ICT HARDWARE, SOFTWARE, NETWORK EQUIPMENT, AND VARIOUS SUPPLIES AND PERIPHERALS FOR BATCH 5 FOR CY 2021** under with identification number **IB NO. BSWM 2021-09-041**.

The Procurement Project (referred to herein as “Project”) is composed of **5 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 2020 and 2021** in the amount of **Twenty-Four Million Three Hundred Ninety-Two Thousand Eighty-Eight pesos (Php 24, 392,088.00)**.

2.2. The source of funding is:

- a. NGA, the General Appropriations Act or Special Appropriations (*General Appropriations Act for CY 2020 through SARO Number BMB-E-21-0002351 and General Appropriations Act for CY 2021*).

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.

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 **BSWM- SRDC BLDG., VISAYAS AVE. COR. ELLIPTICAL ROAD, DILIMAN, QUEZON CITY** 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 *[state relevant period as provided in paragraph 2 of 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.
- 11.5. ~~*[Include if Framework Agreement will be used:] Financial proposals for single or multi-year Framework Agreement shall be submitted before the deadline of submission of bids as prescribed in the IB. For multi-year Framework Agreement, evaluation of the financial proposal during this stage is for purposes of determining eligibility and whether or not such financial proposal is within the ABC.*~~

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 e.
- 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 **Section VII (Technical Specifications)**.

12.2. *[Include if Framework Agreement will be used:]* ~~For Framework Agreement, the following should also apply in addition to Clause 12.1:~~

- a. For a single year Framework Agreement, the prices quoted by the Bidder shall be fixed during the Bidder's performance of the contract and not subject to variation or escalation on any account. Price schedules required under Clause 12.1 shall be submitted with the bidding documents.
- b. For a multi-year Framework Agreement, the prices quoted by the Bidder during submission of eligibility documents shall be the ceiling and the price quoted during mini-competition must not exceed the initial price offer. The price quoted during call for mini-competition shall be fixed during the Bidder's performance of that Call-off and not subject to variation or escalation on any account. Price schedules required under Clause 12.1 shall be submitted with the bidding documents.

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:

- a. **Philippine Pesos.**

14. Bid Security

- 14.1. The Bidder shall submit a Bid Securing Declaration² 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 for a period of **120 calendar days from the date of 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. *[Include if Framework Agreement will be used:]* In the case of Framework Agreement, other than the grounds for forfeiture under the 2016 revised IRR, the bid security may also be forfeited if the successful bidder fails to sign the Framework Agreement, or fails to furnish the performance security or performance securing declaration. Without prejudice on its forfeiture, bid securities shall be returned only after the posting of performance security or 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**.
- 16.2. ~~*[Include if Framework Agreement will be used:] For multi-year Framework Agreement, the submission of bids shall be for the initial evaluation of their technical and financial eligibility. Thereafter, those declared eligible during the said initial eligibility evaluation and entered into a Framework Agreement with the Procuring Entity shall submit anew their best financial offer at the address and on or before the date and time indicated in the Call for each mini-competition.*~~

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.

² In the case of Framework Agreement, the undertaking shall refer to entering into contract with the Procuring Entity and furnishing of the performance security or the performance securing declaration within ten (10) calendar days from receipt of Notice to Execute Framework Agreement.

- 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.
- 18.2. ~~[Include if Framework Agreement will be used:] For multi-year Framework Agreement, determination of margin of preference shall be conducted every call for Mini-Competition.~~

19. Detailed Evaluation and Comparison of Bids

- 19.1. The Procuring 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 15 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 lots which shall be awarded as one contract 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. ~~[Include if Framework Agreement will be used:] For multi-year Framework Agreement, all bidders initially determined to be eligible and financially compliant shall be subject to initial post-qualification. The BAC shall then recommend the execution of a Framework Agreement among all eligible, technically and financially compliant bidders and the Procuring Entity and shall be issued by HoPE a Notice to Execute Framework Agreement. The determination of the Lowest Calculated Bid (LCB) shall not be performed by the BAC until a Mini-Competition is conducted among the bidders who executed a Framework Agreement. When a Call for Mini-Competition is made, the BAC shall allow the bidders to submit their best financial proposals on such pre-scheduled date, time and place to determine the bidder with the LCB.~~
- 20.2. 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, ~~{[Include if Framework Agreement will be used:] or in the case of multi-year Framework Agreement, that it is one of the eligible bidders who have submitted bids that are found to be technically and financially~~

~~compliant,} 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**. *{[Include if Framework Agreement will be used:]} For every mini-competition in Framework Agreement, the LCB shall likewise submit the required documents for final Post-Qualification.*~~

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

Notes on the Bid Data Sheet

The Bid Data Sheet (BDS) consists of provisions that supplement, amend, or specify in detail, information, or requirements included in the ITB found in Section II, which are specific to each procurement.

This Section is intended to assist the Procuring Entity in providing the specific information in relation to corresponding clauses in the ITB and has to be prepared for each specific procurement.

The Procuring Entity should specify in the BDS information and requirements specific to the circumstances of the Procuring Entity, the processing of the procurement, and the bid evaluation criteria that will apply to the Bids. In preparing the BDS, the following aspects should be checked:

- a. Information that specifies and complements provisions of the ITB must be incorporated.
- b. Amendments and/or supplements, if any, to provisions of the ITB as necessitated by the circumstances of the specific procurement, must also be incorporated.

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"> a. Similar contract shall be contract for SUPPLY AND DELIVERY OF ICT HARDWARE, SOFTWARE, NETWORK EQUIPMENT, AND VARIOUS SUPPLIES AND PERIPHERALS and/or its equivalent. b. Completed within two (2) years prior to the deadline for the submission and receipt of bids. <p>The Bidder must have completed a single contract that is similar to this Project, equivalent to at least fifty percent (50%) of the ABC.</p>
7.1	<p><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></p>
12	<p>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.</p>
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"> a. The amount of not less than <i>(2%) of ABC</i>, if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or b. The amount of not less than <i>(5%) of ABC</i> if bid security is in Surety Bond.
19.3	<p>LOT 1- SUPPLY AND DELIVERY OF MICROSOFT WINDOWS SOFTWARE (FUNDED UNDER GAA CY 2020)</p> <p>ABC: One Million Four Hundred Fifty Thousand pesos (Php 1,450,000.00)</p> <p>LOT 2- SUPPLY AND DELIVERY OF SOFTWARE AND BARCODE SOLUTIONS (FUNDED UNDER GAA CY 2020)</p> <p>ABC: One Million pesos (Php 1,000,000.00)</p>

	<p>LOT 3- SUPPLY AND DELIVERY OF VARIOUS ICT SERVER SYSTEM, STORAGE, NETWORK SECURITY, SWITCHES AND EQUIPMENT (FUNDED UNDER GAA CY 2020)</p> <p>ABC: Fifteen Million Two Hundred Thirty Thousand pesos (Php 15,230,000.00)</p> <p>LOT 4- SUPPLY AND DELIVERY OF ICT EQUIPMENT, SUPPLIES AND PERIPHERALS (FUNDED UNDER GAA CY 2020)</p> <p>ABC: Two Million Three Hundred Forty Thousand Five Hundred Fifty pesos (Php 2,340,550.00)</p> <p>LOT 5- SUPPLY AND DELIVERY OF ICT EQUIPMENT, SUPPLIES AND PERIPHERALS (FUNDED UNDER GAA CY 2021)</p> <p>ABC: Four Million Three Hundred Seventy-One Thousand Five Hundred Thirty-Eight pesos (Php 4,371,538.00)</p> <p><u>Total ABC of the contract: Twenty-Four Million Three Hundred Ninety-Two Thousand Eighty-Eight pesos (Php 24, 392,088.00).</u></p> <p>Awarding: One Project having several lots which that shall be awarded as one contract per lot.</p>
20.2	[List here any licenses and permits relevant to the Project and the corresponding law requiring it.]
21.2	[List here any additional contract documents relevant to the Project that may be required by existing laws and/or the Procuring Entity.]

Section IV. General Conditions of Contract

Notes on the General Conditions of Contract

The General Conditions of Contract (GCC) in this Section, read in conjunction with the Special Conditions of Contract in Section V and other documents listed therein, should be a complete document expressing all the rights and obligations of the parties.

Matters governing performance of the Supplier, payments under the contract, or matters affecting the risks, rights, and obligations of the parties under the contract are included in the GCC and Special Conditions of Contract.

Any complementary information, which may be needed, shall be introduced only through the Special 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**.

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 prior to 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. *{[Include if Framework Agreement will be used:] In the case of Framework Agreement, the Bidder may opt to furnish the performance security or a Performance Securing Declaration as defined under the Guidelines on the Use of Framework Agreement.}*

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 *{[Include if Framework Agreement will be used:] or Framework Agreement}* specifications at no extra cost to the Procuring Entity in accordance with the Generic Procurement Manual. In addition to tests in the **SCC, Section IV (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

- 6.1. 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.

- 6.2. 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

Notes on the Special Conditions of Contract

Similar to the BDS, the clauses in this Section are intended to assist the Procuring Entity in providing contract-specific information in relation to corresponding clauses in the GCC found in Section IV.

The Special Conditions of Contract (SCC) complement the GCC, specifying contractual requirements linked to the special circumstances of the Procuring Entity, the Procuring Entity's country, the sector, and the Goods purchased. In preparing this Section, the following aspects should be checked:

- a. Information that complements provisions of the GCC must be incorporated.
- b. Amendments and/or supplements to provisions of the GCC as necessitated by the circumstances of the specific purchase, must also be incorporated.

However, no special condition which defeats or negates the general intent and purpose of the provisions of the GCC should be incorporated herein.

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>Delivery and Documents –</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 <i>End-User Representative, Authorized Property Management Unit Personnel, Inspection Committee Member</i></p> <p><i>Supplier shall coordinate with the End-user for final schedule of delivery within 7 calendar days from receipt of Notice to Proceed.</i></p> <p>Incidental Services –</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: <i>Select appropriate requirements and delete the rest.</i></p> <ol style="list-style-type: none"> a. performance or supervision of on-site assembly and/or start-up of the supplied Goods; b. furnishing of tools required for assembly and/or maintenance of the supplied Goods; c. furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods;

	<p>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</p>
	<p>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.</p> <p>f. <i>[Specify additional incidental service requirements, as needed.]</i></p> <p>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.</p> <p>Spare Parts –</p> <p>The Supplier is required to provide all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:</p> <p><i>Select appropriate requirements and delete the rest.</i></p> <p>a. 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</p> <p>b. in the event of termination of production of the spare parts:</p> <p>i. advance notification to the Procuring Entity of the pending termination, in sufficient time to permit the Procuring Entity to procure needed requirements; and</p> <p>ii. following such termination, furnishing at no cost to the Procuring Entity, the blueprints, drawings, and specifications of the spare parts, if requested.</p> <p>The spare parts and other components required are listed in Section VI (Schedule of Requirements) and the cost thereof are included in the contract price.</p> <p>The Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spare parts or components for the Goods for a period of One Year.</p> <p>Spare parts or components shall be supplied as promptly as possible, but in any case, within One month of placing the order.</p>

	<p>Packaging –</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>Transportation –</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>Intellectual Property Rights –</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] “The terms of payment shall be as follows: _____.”</i></p>
4	<p>The inspections and tests that will be conducted are: <i>Inspection per conformity and compliance to technical specifications.</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.

Item Number	Description	Delivered, Weeks/Months
	<p>LOT 1- SUPPLY AND DELIVERY OF MICROSOFT WINDOWS SOFTWARE (FUNDED UNDER GAA CY 2020)</p> <p>LOT 2- SUPPLY AND DELIVERY OF SOFTWARE AND BARCODE SOLUTIONS (FUNDED UNDER GAA CY 2020)</p> <p>LOT 3- SUPPLY AND DELIVERY OF VARIOUS ICT SERVER SYSTEM, STORAGE, NETWORK SECURITY, SWITCHES AND EQUIPMENT (FUNDED UNDER GAA CY 2020)</p> <p>LOT 4- SUPPLY AND DELIVERY OF ICT EQUIPMENT, SUPPLIES AND PERIPHERALS (FUNDED UNDER GAA CY 2020)</p> <p>LOT 5- SUPPLY AND DELIVERY OF ICT EQUIPMENT, SUPPLIES AND PERIPHERALS (FUNDED UNDER GAA CY 2021)</p>	<p>Delivery of goods is required within thirty (30) calendar days upon receipt of Notice to Proceed (NTP)</p> <p>Supplier shall coordinate with the End-user for final schedule of delivery within 7 calendar days from receipt of Notice to Proceed.</p>

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 (LOT 1)

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>

PR 1685 LSD NSHP		
1	2 Lots of Microsoft Windows Standard Server	
	Support number of 64-bit sockets: 64	
	Support number of cores: unlimited	
	Support Maximum RAM: 24TB	
	Support Server can join a domain: yes	
	Support DirectAccess: yes	
	DLNA codecs and web media streaming: yes	

	Inclusion:	
	Installation Disk Software Product Key Sticker and User Manual	
	30 Client Access License (Microsoft Client Access License)	
	Training for five (5) pax- with Certificate of Reservation to Training or Webinar - 5pax inclusion of meal and accommodation (indoor/outdoor)	
2	40 Lots of Microsoft Windows 10 Professional	
	Type: Windows Operating System	
	Edition: Professional Edition x64bit	
	Language: Multi-Language , English	
	Core Features: Customizable Start Menu Windows Defender & Windows Firewall Fast start up with Hiberboot and InstantGo Windows Update Cortana Windows Hello Virtual desktops Continuum Microsoft Edge Device Encryption Domain Join Group Policy Management Bitlocker StartScreen Control with Group Policy Granular UX Control Credential Guard Delivering Windows as a Service	
	Inclusion:	
	Microsoft Genuine Installation Disk Software Product Key Sticker and User Manual	
	10 Client Access License (Microsoft Client Access License)	
	Training for five (5) pax- with Certificate of Reservation to Training or Webinar - 5pax inclusion of meal and accommodation (indoor/outdoor)	
3	15 Lots of Microsoft Office 2016 Pro Plus	
	Type: Application Software	
	Edition: Professional Plus Edition x64bit	
	Language: Multi-Language , English	

Core Features: Word Excel Powerpoint One Note Outlook Publisher Access	
With Microsoft Genuine Installation Disk Software Product Key Sticker and User Manual	
Inclusion: Training for five (5) pax- with Certificate of Reservation to Training or Webinar - 5pax inclusion of meal and accommodation (indoor/outdoor)	
NOTE: Must have standard warranty, customer replaceable unit, on-site support and services	
Compliance with Section VI. Schedule of Requirement.	

Name and Signature of Authorized Representative

Company Name

Date Signed

Technical Specifications (LOT 2)

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>
	PR 1686 LSD NSHP	
1	1 LOT OF SOFTWARE AND BARCODE SOLUTIONS	
	COMPONENTS:	

	1. 2 UNITS OF COMPACT BARCODE PRINTER	
	PRINT TECHNOLOGY: Direct Thermal, Optional Thermal Transfer	
	COMMUNICATION PORT: Ethernet-wired LAN 10/100/1000	
	Wireless 802.11x	
	Serial, RS-232, USB 2.0, 3.0	
	PRINT LENGTH RANGE: 6.35mm to 251.6mm (0.25in to 99in)	
	MEMORY: 32-64 DDR4/DRAM/64MB Flash	
	MAXIMUM PRINT WIDTH: 108 mm (4.25inch)	
	MEDIA THICKNESS RANGE: 0.0635 mm to 0.254 mm (0.0025 in to 0.01 in)	
	MEDIA SENSING: “See through” for liner-backed die-cut labels and tags, reflective sensor	
	LABEL BACKFEED: Auto sensor with cutter	
	RIBBON WIDTH RANGE: 1.0 inch to 4.5 inch	
	BARCODES: Linear Symbolologies: Code 3, Code 9, UPC-A, UPC-E, Interleaved, Industrial, Std, Code 11, Code 93, Code 128, EAN-8, EAN-13, HIBC, Codabar, Plessey, UPC 2 and 5-digit addendums, Postnet, UCC/EAN Code 128, Telepen, Planetcode, FIM, USPS-4 State	
	2D Symbolologies: MaxiCode, PDF417, USD-8, Datamatrix, QR Code, Codablock, Code 16k, Aztec, TLC 39, Micro PDF 417, GS1 Databar	
	RESIDENT FONTS: Ten alphanumeric fonts from 2.5 to 23 point size, including OCR-A, OCR-B, CG Triumvirate smooth font from AGFA	
	SCALABLE FONTS: CG Triumvirate Bold, Condensed, CG Times with Cyrillic, Greek, Arabic, Hebrew	
	DOWNLOADABLE FONT TYPES: TrueType, Bitmap, Jpeg, Png	
	CHARACTER SET: More than 50 resident character sets Unicode/UTF8 support	
	FONT EXPANSION: All fonts expandable vertically and horizontally up to 24x	
	FONT ROTATION: Fonts and graphics can be printed in four directions: 0o,90o,180o and 270o	
	SECURITY PROTOCOLS: Wireless: WPA/WEP/WPA PSK/Enterprise	
	Security Encryption: 64/128, TKIP/RC4, CCMP/AES	
	Authentication: Leap, EAP-Peap, EAP-Fast, EAP-TTLS, EAP-LEAP, IPV4, IPV6	
	SUPPORT OPERATING SYSTEM: Compatible to all Windows version	
	REGULATION: GS1 Barcode Standard	
	ISO 15416 Standard for Barcode Printer	
	INPUT VOLTAGE: 120-220V	

	Inclusion:	
	LABEL: Destructible Label compatible to Barcode Printer	
	CARTRIDGE: Manufacture Ink Cartridge/Toner compatible to Barcode Printer	
	REGULATOR: 220v AC Voltage Regulator , 4 Output Socket	
	TRAINING: Certificate of Reservation to Training or Webinar - 5pax inclusion of meal and accommodation (indoor/outdoor)	
	2. MAGNETIC I.D CARD PRINTER	
	MEMORY: 16-64GB	
	IMAGE SIZE: 1006 x 640 pixels and above	
	TONER/RIBBON: Auto-calibration	
	CARD CAPACITY: 100-200 auto-adjusting input/output hopper; manual card feeding capability with LED light indicator; 3 tri-color printer status indicator lights	
	LOCK: Secure lock slot, digital lock	
	DATA ENCRYPTION: Printer host authentication	
	PRINTING: - Dye-sublimation thermal transfer direct to card print method	
	- full color or monochrome printing	
	- single-sided printing	
	-edge-to-edge printing on standard CR-80 media	
	- printing throughput (cards per hour) based on batch printing via USB	
	INTERFACE: - Built-in 10/100/1000 Ethernet, USB 2.0, 3.0, 802.11x	
	MAGNETIC STRIPPER: Magnetic stripe encoder, ISO 7811	
	COMPATIBILITY: Microsoft Windows, Linux, Apple	
	SOFTWARE INCLUDED: Multiplatform Software Development Kit (SDK), CardStudio	
	VOLTAGE REQUIREMENT: 120-220AC Volt	
	Inclusion:	
	CARD Magnetic I.D. Card	
	CARTRIDGE Ink Cartridge compatible to Printer	
	REGULATOR 220v Voltage Regulator , 4 Output Socket	
	TRAINING: Certificate of Reservation to Training or Webinar - 5pax inclusion of meal and accommodation (indoor/outdoor)	
	3. ULTRA-RUGGED HANDHELD SCANNER	
	INPUT VOLTAGE RANGE: 4.5-5.5DC Volts	
	BATTERY: PowerPrecision rechargeable battery	
	INTERFACE: USB 2.0,3.0, Keyboard Wedge, Ethernet 10/100/1000 IPV4, IPV6	
	USER INDICATOR: Direct decode indicator LEDS, beeper, vibration	
	DECODE CAPABILITIES: 1D, 2D, QRCode, Barcode compatible to BARCODE PRINTER LABEL	
	SCANS PER FULL CHARGE 140,000+	

	PERFORMANCE: Illumination – Two (2) Amber LEDs	
	Imager Field of View 35degrees	
	Image Sensor 1,500 pixels	
	Ambient Light Immunity	
	WIRELESS CONNECTIVITY: 802.11x, Bluetooth Radio, Serial Port and HID Profiles, Radio Range Direct Line of sign in open air	
	COMPATIBILITY: Microsoft Windows, Linux, Apple	
	SOFTWARE INCLUDED: Multiplatform Software Development Kit (SDK), CardStudio	
	VOLTAGE REQUIREMENT: 120-220AC Volt	
	REGULATORY: RoHS EN 50581 compliant	
	Inclusion:	
	BATTERY: Rechargeable Battery; Battery docking bay for charging; Input Voltage: 220ACV	
	TRAINING: Certificate of Reservation to Training or Webinar - 5pax inclusion of meal and accommodation (indoor/outdoor)	
	4. CORDLESS HANDHELD BARCODE SCANNER	
	SCAN ANGLE: Horizontal/Vertical 35-65 degree	
	SCAN SPEED: 500-1000 scans per second	
	MOTION TOLERANCE: 25-30 in / 60-65 cm per second	
	LIGHT SOURCE: LED with amber light for activity status, On-Off LED Indicator, Full Charge indicator, Low battery status indicator	
	SCANS PER CHARGE: Up to 60,000	
	HOURS OF OPERATION: 72-100 hours battery mode	
	DROPS SPECIFICATION: Shock resistance, Over 100 drops, room temperature survives 6-10ft/1-2 m drops to concrete	
	BAR CODE SYMBOLOGIES: Compatible to Barcode Label Printer	
	BATTERY: Rechargeable replaceable battery	
	CRADLE INTERFACE: RS232, RS485(IBM), USB, Keyboard Wedge	
	DECODE RANGE: 20 ft./6m	
	WIRELESS CONNECTIVITY: Bluetooth Radio, Radio Range 300-400ft/100-200 m line of sight, 802.11x	
	COMPATIBILITY: Microsoft Windows, Linux, Apple	
	SOFTWARE INCLUDED: Multiplatform Software Development Kit (SDK), CardStudio	
	VOLTAGE REQUIREMENT: 120-220AC Volt	
	REGULATORY: RoHS Directive 2002/95 compliant	
	EEC Electrical Safety C22.2	
	IEC 60601-1-2	
	BATTERY: Rechargeable Battery; Battery docking bay for charging; Input Voltage: 220ACV	

	TRAINING: Certificate of Reservation to Training or Webinar - 5pax inclusion of meal and accommodation (indoor/outdoor)	
	NOTE: Must have standard warranty, customer replaceable unit, on-site support and services	
	Compliance with Section VI. Schedule of Requirement.	

Name and Signature of Authorized Representative

Company Name

Date Signed

Technical Specifications (LOT 3)

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>

PR 1688 LSD NSHP		
	Server System and Storage Please see LIMS-Terms of Reference - Annex A for detailed technical specification (Ref. A.1 - A.6)	
1	Database Server	
2	Application Server	

3	Domain Controller Server	
4	Network Attached Storage	
5	BackUP Tape Drive	
6	UPS fr Server	
	Network Security and Switches Please see LIMS-Terms of Reference - Annex A for detailed technical specification (Ref. B.1 - B.8)	
7	Network Distribution Switch	
8	Network Core Switch	
9	Network Appliance Firewall	
10	Network DMZ Appliance	
11	Network Cabinet (6U Switch Racks)	
12	Network & Server Steel Cabinet	
13	Network Attached Storage	
14	Wireless Router	
	Workstation and Laptop Computers with accessories Please see LIMS-Terms of Reference - Annex A for detailed technical specification (Ref. D.1 - D.10)	
15	Workstation Computer	
16	Workstation Computer with Printers	
17	Windows Laptop	
18	Macbook Pro Laptop	
19	Industrial Multi-Function Printer	
20	Portable HD Projector	
21	DSLR Camera with Kit Lens	
22	Video Conferencing Device	
23	Android Tablet	
	NOTE: Must have standard warranty, customer replaceable unit, on-site support and services	
	ATTACHED IS THE ANNEXES FOR SPECIFIC SPECIFICATION PER ITEM (ANNEX A, ANNEX B AND ANNEX D) FOR COMPLIANCE.	
	Compliance with Section VI. Schedule of Requirement.	

REFERENCE NO: **A.1**
 CATEGORY: **HARDWARE - A. Server System and Storage**

QUANTITY	ITEM	TYPE
1	Server	DATABASE

TECHNICAL SPECIFICATION:

GENERATION:	7 TH -10 TH
PROCESSOR TYPE:	Intel Xeon Platinum Scalable
PROCESSOR CORE:	16 Core
PROCESSOR CACHE INSTALLED:	Yes
PROCESSOR SPEED:	2.7-3.4 GHz
MEMORY TYPE:	16GB DDR4 (1x16GB) Dual Rank x8 SmartMemory
INTERNAL MEMORY:	64-128 GB - upgradable
STORAGE:	SAS Read-Write Intensive 20-50TB Digitally Signed Firmware - Factory Integrated Hot swappable drive bays, support ALL RAID Technology
GRAPHICS:	Built-in GPU Nvidia PCIe 32GB Computational Accelerator Factory Integrated
NETWORK CONTROLLER:	Ethernet 10Gb 2-port SFP Adapter Factory Integrated
REMOTE MANAGEMENT SOFTWARE:	Manufacturer Standard with Intelligent Provisioning, OneView Advance
FAN FACTOR:	Gen10 High Performance Temperature Hot swappable Fan
FORM FACTOR:	Rack Mounted
POWER SUPPLY:	Hot-plug, Fully Redundant Power Supply, Fault Tolerant Redundant, Mixed Mode
FACTORY INTEGRATED:	Smart Array SAS Modular Controller, 10Gb SFP+ SR Transceiver High Performance Temperature Fan Kit Low Halogen Power Supply Kit Embedded System - Server Management Software Gen 10 8-pin Keyed Cable Kit, 2U Large Form Factor Easy Install Rail Kit Gen 10 High Performance Heat Sink Kit Factor Generated Password
REGULATORY:	Regulatory Product Datasheet European Union Declaration of Conformity Energy Regulation Compliance Security Regulatory Compliance
COMPATIBILITY:	Microsoft Windows Server Multi-language Red Hat Enterprise Linux SUSE Linux Enterprise, VMware ESXi
INPUT VOLTAGE:	220ACV

Warranty: standard manufacturer warranty, customer replaceable unit, on-site support and services

INCLUSION:

QTY	UNIT	ITEM	SPECIFICATION
1	LIC	RELATIONAL DATABASE MANAGEMENT SYSTEM	Perpetual License Windows Server SQL 2019 - Enterprise Editions x64 - English Product Key Sticker, Installation Disk, and User Manual
1	pc	MONITOR:	Design: 27-inch LED Curvature for immersive viewing, ultra-slim design Resolution: 1920x1080, Aspect Ratio 16:9 Response Time: 4ms Input: VGA and HDMI Input Connector Voltage: 220v
3	pc	KEYBOARD:	Plug and Play USB Wired-Connection, Industry standard layout with full-size F-keys and number pad, QWERTY Keys US-English, Sturdy adjustable tilt legs, curve space bar
			Sensor: Optical, 1000 DPI sensitivity

3	pc	MOUSE:	Buttons: 2-primary buttons, clickable scroll wheel USB: wired-usb connector, plug and play, compatible to all MS Windows OS
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REFERENCE NO: A.2
CATEGORY: HARDWARE - A. Server System and Storage

QUANTITY	ITEM	TYPE
1	Server	APPLICATION

TECHNICAL SPECIFICATION:

GENERATION:	7 TH ~10 TH
PROCESSOR TYPE:	Intel Xeon Silver Scalable
PROCESSOR CORE:	8~16 Core
PROCESSOR CACHE INSTALLED:	Yes
PROCESSOR SPEED:	2.2~3.0 GHz
MEMORY TYPE:	16GB DDR4 (1x16GB) Dual Rank x8 SmartMemory
INTERNAL MEMORY:	64~128 GB - upgradable
STORAGE:	SAS 10~20TB Manufacture Digitally Signed Firmware HDD Factory Integrated Hot Swappable drive bays Support ALL-RAID Technology
GRAPHICS:	Built-in GPU Nvidia PCIe 32GB Computational Accelerator Factory Integrated
NETWORK CONTROLLER:	Ethernet 10Gb 2-port SFP Adapter Factory Integrated
REMOTE MANAGEMENT SOFTWARE:	Manufacturer Standard Remote with Intelligent Provisioning One-View Advance Web-based Remote Access
FAN FACTOR:	Gen10 High Performance Temperature Hot Swappable Fan
FORM FACTOR:	1~4U Rack Mounted
POWER SUPPLY:	Hot-plug, Fully Redundant Power Supply, Fault Tolerant Redundant, Mixed Mode
FACTORY INTEGRATED:	Smart Array SAS Modular Controller 10Gb SFP+ SR Transceiver Low Halogen Power Supply Kit Server Management Software Gen 10 8-pin Keyed Cable Kit 2U Large Form Factor Easy Install Rail Kit
REGULATORY:	Regulatory Product Datasheet European Union Declaration of Conformity Energy Regulation Compliance Security Regulatory Compliance
COMPATIBILITY:	Microsoft Windows Server Multi-language Red Hat Enterprise Linux SUSE Linux Enterprise VMware ESXi
INPUT VOLTAGE:	220ACV

Warranty: standard manufacturer warranty, customer replaceable unit, on-site support and services

INCLUSION:

QTY	UNIT	ITEM	SPECIFICATION
1	LIC	OPERATING SYSTEM	Perpetual License Microsoft Windows Server 2019 - Enterprise Edition x64 – English Product Key Sticker, Installation Disk, and User Manual
10	CAL	Client Access License	Microsoft Windows Client Access License
5	pax	TRAINING:	Certificate of Reservation to Training or Webinar - 5pax inclusion of meal and accommodation (indoor/outdoor)

REFERENCE NO: **A.3**
 CATEGORY: **HARDWARE - A. Server System and Storage**

QUANTITY	ITEM	CLASSIFICATION
1	Server	DOMAIN CONTROLLER

TECHNICAL SPECIFICATION:

GENERATION:	7 th ~10 th
PROCESSOR TYPE:	Intel Xeon Scalable
PROCESSOR CORE:	8~16 Core
PROCESSOR CACHE INSTALLED:	Yes
PROCESSOR SPEED:	2.2~3.0 GHz
MEMORY TYPE:	16GB DDR4 (1x16GB) Dual Rank x8 SmartMemory
INTERNAL MEMORY:	32-128 GB - upgradable
STORAGE:	SAS 5~10TB Digitally Signed Firmware HDD Factory Integrated Hot Swappable drive bays Support all RAID Technology
GRAPHICS:	Built-in GPU Nvidia PCIe 32GB Computational Accelerator Factory Integrated
NETWORK CONTROLLER:	Ethernet 10Gb 2-port SFP Adapter Factory Integrated
REMOTE MANAGEMENT SOFTWARE:	Manufacturer Standard with Intelligent Provisioning, OneView Advance Web-based Remote Management Tools
FAN FACTOR:	Gen10 High Performance Temperature Hot Swappable Fan
FORM FACTOR:	1~4U Rack Mounted
FACTORY INTEGRATED:	Smart Array SAS Modular Controller 10Gb SFP+ SR Transceiver Low Halogen Power Supply Kit Server Management Software Gen 10 8-pin Keyed Cable Kit 2U Large Form Factor Easy Install Rail Kit Gen 10 High Performance Heat Sink Kit
REGULATORY:	Regulatory Product Datasheet European Union Declaration of Conformity Energy Regulation Compliance Security Regulatory Compliance
COMPATIBILITY:	Microsoft Windows Server Multi-language Red Hat Enterprise Linux SUSE Linux Enterprise VMware ESXi
INPUT VOLTAGE:	220ACV

Warranty: standard manufacturer warranty, customer replaceable unit, on-site support and services

INCLUSION:

QTY	UNIT	ITEM	DESCRIPTION
1	pc	MONITOR:	Design: 27-inch LED Curvature for immersive viewing, ultra-slim design Resolution: 1920x1080, Aspect Ratio 16:9 Response Time: 4ms Input: VGA and HDMI Input Connector Voltage: 220v
3	pc	KEYBOARD:	Plug and Play USB Connection, Industry standard layout with full-size F-keys and number pad, QWERTY Keys US-English, Sturdy adjustable tilt legs, curve space bar
3	pc	MOUSE:	Sensor: Optical, 1000 DPI sensitivity Buttons: 2-primary buttons, clickable scroll wheel USB: wired-usb connector, plug and play, compatible to all MS Windows OS
5	pax	TRAINING:	Certificate of Reservation to Training - 5pax inclusion of meal and accommodation

REFERENCE NO: A.4
CATEGORY: **HARDWARE - A. Server System and Storage**

QUANTITY	ITEM	CLASSIFICATION
1	Storage	NETWORK ATTACHED SERVER

TECHNICAL SPECIFICATION:

GENERATION:	7 th ~10 th
PROCESSOR TYPE:	Intel Xeon Scalable
PROCESSOR CORE:	8~16 Core
PROCESSOR CACHE INSTALLED:	Yes
PROCESSOR SPEED:	3.2 GHz and above
MEMORY TYPE:	DDR4 Smart Memory
INTERNAL MEMORY:	32~64GB upgradable, with expansion memory slot
STORAGE:	30~50 TB raw capacity, Support external expansion Fibre Channel, MSA SAN Storage Smart Array Controller Support all RAID Technology
HD TYPE:	Hot-plug, hot swappable, SATA or SAS
GRAPHICS:	Built-in GPU Nvidia PCIe 32GB Computational Accelerator Factory Integrated
NETWORK CONTROLLER:	4 x 1GbE Standard
REMOTE MANAGEMENT SOFTWARE:	Web-based GUI
FAN FACTOR:	Redundant Fans Hot swappable
FORM FACTOR:	1~4U Rack Mounted
PROTOCOL SUPPORTED:	SMB, NFS, iSCSI over Ethernet, FTP/S, HTTP/S
FACTORY INTEGRATED:	Drive Clustering Support Management Console Array controller to support external disk enclosures. Replication Features – Microsoft DFS-R, optional Carbonite Double-Take Smart Storage Administration Software Snapshot Support – Microsoft Volume Shadow Copy (VSS)
REGULATORY:	Regulatory Product Datasheet European Union Declaration of Conformity Energy Regulation Compliance Security Regulatory Compliance
COMPATIBILITY:	Microsoft Windows Server Multi-language Red Hat Enterprise Linux SUSE Linux Enterprise, VMware ESXi
INPUT VOLTAGE:	220 ACV

Warranty: standard manufacturer warranty, customer replaceable unit, on-site support and services

INCLUSION:

QTY	UNIT	ITEM	DESCRIPTION
1	pc	MONITOR	Design: 27-inch LED Curvature for immersive viewing, ultra-slim design Resolution: 1920x1080, Aspect Ratio 16:9 Response Time: 4ms Input: VGA and HDMI Input Connector Voltage: 220v
5	pc	KEYBOARD	Design: Slim Multi-Device Keyboard, minimalist design and compact. Connection: USB-2.4 Ghz wireless receiver, battery mode, secure wireless connection Compatible: All Windows Operating System
5	pc	MOUSE	Design: Wireless type, 1000 DPI Laser Grade Optical Sensor, Black

			Connection: Bluetooth, Wireless range 10meter, battery operated Compatible: All Windows Operating System
5	pax	TRAINING	Certificate of Reservation - 5pax inclusion of meal and accommodation

REFERENCE NO: A.5
CATEGORY: **HARDWARE - A. Server System and Storage**

QUANTITY	ITEM	CLASSIFICATION
1	Backup Drive and Tape Autoloader	TAPE BACKUP DRIVE

TECHNICAL SPECIFICATION:

SUPPORTED TAPE DRIVE TECHNOLOGIES:	LTO-7, LTO-8 WORM SAS Drive
SPEED (Native):	3.5MB/s
BARCODE READER:	Standard
MEDIA BAY:	Up to 9 Media Cartridges
NETWORK INTERFACE:	Ethernet RJ-45 Serial RJ-11 ADI T-10 IPv6 Phase 1 & 2 Ready and DoD APL
PARTIONING SUPPORT:	Yes
FORM:	Orientation: Horizontal, 1~4U Configuration: Rack-mount standard
CONTROLLERS:	For 13G and 14G Servers 12Gb SAS HBA, dual port, low profile, Customer Kit
EXPANSION CAPABILITY:	Yes
USER INTERFACE:	Operator Control Panel LCD Display Panel to check system status, Run Diagnostics, Check Configuration, Verify Drive Operations, Run Inventory and Manage Systems
REMOTE MANAGEMENT:	Remove Web-based Management (RMU) Access the web-based administration through LAN 10/100/1000 Base-T Manage the System and Upgrade Drive and Library Firmware.
INPUT VOLTAGE:	AC power voltage 120-240 VAC
FORM FACTOR:	1-4U Rack Mounted
SUPPORT OPERTING SYSTEM:	Microsoft Windows Servers, OS, Linux and Unix
INTEGRATED:	Perpetual license Back-up Software compatible with all LTO Tape Drives Supports hardware compression and AES 256-bit encryption or higher Drive Imaging and Backup to NAS, RDX, FTP Email notifications, auto task scheduling, reports
POWER:	100~220VAC

Warranty: standard manufacturer warranty, customer replaceable unit, on-site support and services

INCLUSION:

QTY	UNIT	ITEM	DESCRIPTION
1	pc	STEEL STORAGE:	Steel Safety Vault Storage 4 layer, Storage capacity up to 30 LTO Cartridges Combination of Digital and Manual Key Security
100	pc	LTO TAPE LABEL	LTO Media Tape Labels 1-100
2	pc	CABLES	6Gb Mini to HD-Mini SAS Cable 5M
30	pc	MEDIA WITH CASE:	LTO-7~8 Custom Labeled Data Cartridge WORM 15TB Compressed 2.5:1

3	pc	MEDIA CLEANER:	LTO-7~8 Media Cleaner Cartridge WORM
2	pc	MONITOR:	Design: 27-inch LED Curvature for immersive viewing, ultra-slim design Resolution: 1920x1080, Aspect Ratio 16:9 Response Time: 4ms Input: VGA and HDMI Input Connector Voltage: 220v
3	pc	KEYBOARD:	Plug and Play USB Wired-Connection, Industry standard layout with full-size F-keys and number pad, QWERTY Keys US-English, Sturdy adjustable tilt legs, curve space bar
3	pc	MOUSE:	Sensor: Optical, 1000 DPI sensitivity Buttons: 2-primary buttons, clickable scroll wheel USB: wired-usb connector, plug and play, compatible to all MS Windows OS
5	pax	TRAINING:	Certificate of Reservation for Training 5pax inclusion of meal and accommodation (indoor/outdoor)

REFERENCE NO: **A.6**
 CATEGORY: **HARDWARE - A. Server System and Storage**

QUANTITY	ITEM	CLASSIFICATION
4	Smart UPS	UPS FOR SERVERS

TECHNICAL SPECIFICATION:

MAX CONFIGURE POWER:	20k~30kWatts/40.0kVA
TYPE:	Line Interactive
BACKUP TIME:	20~30 minutes
INPUT FREQUENCY:	Manufacture Hz Auto-sensing
INPUT VOLTAGE:	120-240VAC
OUTPUT VOLTAGE:	220V
OUTPUT VOLTAGE DISTORTION:	Less than 10% at full load
OUTPUT FREQUENCY:	Unsyncronized
OUTPUT PORT:	Depend on rack mounted server power input port plug requirement
TOPOLOGY:	Double Conversion On-line
NUMBER OF OUTPUT OUTLET:	10~14
BYPASS:	Internal bypass (automatic and manual)
NETWORK INTERFACE:	Ethernet connection for on-line monitoring
BATTERY LIFE SPAN:	2~5 years
FORM FACTOR:	Tower Type
FEATURES:	Alpha/Numeric LCD Display Smart Slot HotSwappable Batteries Network Manageable
SERVICEABILITY:	Audible alarms, User-replaceable power modules automatic self-test, disconnected battery notification user-replaceable batteries, user-replaceable intelligence modules predictive failure notification
SCALABILITY:	Scalable runtime field-replaceable power distribution panel plug-and-play external batteries programmable frequency scalable power capacity
PROTECTION:	Resettable circuit breakers Safety-agency approved, Generator compatible Input Power Factor Correction, Cold-start capable Frequency and voltage regulation, Power Conditioning
REGULATORY:	RoHS Certificate of Compliance EN 50091-1, EN 50091-2

Warranty: standard manufacturer warranty, customer replaceable unit, on-site support and services

INCLUSION:

QTY	UNIT	ITEM	DESCRIPTION
1	pc	MONITOR:	Design: 27-inch LED Curvature for immersive viewing, ultra-slim design Resolution: 1920x1080, Aspect Ratio 16:9 Response Time: 4ms Input: VGA and HDMI Input Connector Voltage: 220v
3	pc	KEYBOARD:	Plug and Play USB Wired-Connection, Industry standard layout with full-size F-keys and number pad, QWERTY Keys US-English, Sturdy adjustable tilt legs, curve space bar
			Sensor Optical, 1000 DPI sensitivity Buttons: 2-primary buttons, clickable scroll wheel

3	pc	MOUSE:	USB: wired-usb connector, plug and play, compatible to all MS Windows OS
5	pax	TRAINING:	Certificate of Reservation to Training or Webinar - 5pax inclusion of meal and accommodation (indoor/outdoor)

REFERENCE NO: B.1
CATEGORY: HARDWARE - B. Network Security and Switches

QUANTITY	ITEM	CLASSIFICATION
4	Network	DISTRIBUTION SWITCH

TECHNICAL SPECIFICATION:

NUMBER OF PORTS:	48 PoE Ports 4 SFP+ Ports
SWITCHING (Gbps):	10-176
MEMORY (GB):	1-2 GB
FLASH (MB):	128-256
MAC ADDRESS TABLE:	64-128K
MANAGEMENT:	RJ45 Console – Web based GUI Remote Configuration Manage through Capture Security, SSH, Console Access, Https Access, SNMP, User Management, Dual partition for firmware images, DHCP Snooping, DHCP Relay, SNTP, Radius Authentication
SWITCHING TECHNOLOGY:	Port Control and Settings, PoE, Port Security, EEE, STP, Loopback Detection, Link Aggregation, LACP, Port Mirror, Jumbo Frames, LLDP, IGMP Snooping, Multicast Filtering, QoS, CoS based on 802.1p priority, COS based on DSCP Boot/DHCP Client, Bandwidth Control, RMON, Port Statistics, Static Routing
LAYER 2 FEATURES:	Jumbo Frames, Auto-negotiation for Port Speed and Duplex, MDI/MDIX Auto-crossover, MAC Bridging/STP, Rapid Spanning Tree Protocols (RSTP), Multiple Spanning Tree Protocol (MSTP), VLAN Tagging, Guest VLAN and Voice VLAN, Flow Control and Back-pressure, QoS IEEE 802.1p Based Priority Queuing, IP TOS/DSCP Based Priority Queuing
FORM FACTOR:	Network Cabinet Rack Mounted
SECURITY:	802.1x Authentication, Syslog Collection, IP/MAC ACL, ACL, IEEE 802.1x, IEEE 802.1x Guest and Fallback VLAN, IPS, AV, Application Control, Botnet, Syslog Collection, IEEE 802.1x authentication Port-based IEEE 802.1x Guest and Fallback VLAN
STANDARD:	PoE Standard 802.3at, 802.3af
VOLTAGE REQUIREMENT:	120-220AC Volt
REGULATORY:	1RK47-0E7, FCC Class A, ICES Class A, CE EMC Class A, LVD RoHS, C-Tick, VCCI Class A, TUV/GS, NIST (National Institute of Standard and Technology) DISA (Defense Information System Agency)

Warranty: standard warranty, customer replaceable unit, on-site support and services

INCLUSION:

QTY	UNIT	ITEM	DESCRIPTION
100	pc	PATCH CABLE	Cat6 RJ45 Ethernet Patch Cable – 6” inch
100	pc	PATCH CABLE	Cat6 RJ45 Ethernet Patch Cable – 0.3m/1ft
100	pc	PATCH CABLE	Cat6 RJ45 Ethernet Patch Cable – 3m/10ft
200	pc	CONNECTOR	RJ 45 Connector with Rubber boot

5	pax	TRAINING:	Certificate of Reservation to Training or Webinar - 5pax inclusion of meal and accommodation (indoor/outdoor)
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REFERENCE NO: B.2
CATEGORY: HARDWARE - B. Network Security and Switches

QUANTITY	ITEM	CLASSIFICATION
1	Network	CORE SWITCH

TECHNICAL SPECIFICATION:

NUMBER OF PORTS:	24 PoE Web-Smart Core Switch 2 SFP+ Ports 10Gb
PORT SPEED:	RJ-45 Ethernet 10/100/1000 PoE Ports
LAYER 2:	Auto-sensing IEEE 802.3x IEEE 802.x STP, RSTP, MSTP Lookback Detection, Link Aggregation IGMP Snooping, LLDP/LLDP-MED/Cable Diagnostic, Jumbo Frame VLANs - 802.1x, Port-Based, Management, Guest, Voice/Surveillance QoS – Rate Limiting, Prioritization, Traffic Scheduling, SPQ, WRR, Hybrid, DiffServ, HW Queues, IPv4, IPv6
QOS:	Rate-limiting, Priority Queues per port Traffic Scheduling, Strict Priority Queuing (SPQ) Weighted Round Robin (WRR) Port-Based QoS, IPv4/IPv6 DSCP DiffServ, HW Queues
MANAGEMENT:	Switch Management, CLI via telnet, Web-based Management, SNMP, DHCP Client, Snooping, SNMP Standard, RMON, System Status, NTP, Dual Configuration, Syslog, Event/Error Log, Memory Flash Log, System Password Protection
FORM FACTOR:	Rack Mounted
SECURITY:	802.1x Authentication, Syslog Collection, IP/MAC ACL, ACL, IEEE 802.1x, IEEE 802.1x Guest and Fallback VLAN, IPS, AV, Application Control, Botnet, Syslog Collection, IEEE 802.1x authentication Port-based, IEEE 802.1x Guest and Fallback VLAN
STANDARD:	PoE Standard 802.3at, 802.3af
VOLTAGE REQUIREMENT:	120-220AC Volt
REGULATORY:	1RK47-0E7, FCC Class A ICES Class A, CE EMC Class A, LVD RoHS, C-Tick, VCCI Class A, TUV/GS, NIST (National Institute of Standard and Technology) DISA (Defense Information System Agency)

Warranty: standard manufacturer warranty, customer replaceable unit, on-site support and services

INCLUSION:

QTY	UNIT	ITEM	DESCRIPTION
2	pc	SFP Module	RJ45 SFP Module
2	pc	SFP Module	Fiber Optic Module
2	roll	CABLE STRAP	60 meters Velcro Strap reusable cable ties (20mm width)
5	pax	TRAINING:	Certificate of Reservation to ICT Training - 5pax inclusion of meal and accommodation (indoor/outdoor)

REFERENCE NO: B.3
CATEGORY: HARDWARE - B. Network Security and Switches

QUANTITY	ITEM	CLASSIFICATION
1	Network	APPLIANCE FIREWALL

TECHNICAL SPECIFICATION:

PERFORMANCE:	Firewall 65 Gbps IPSec VPN 6.1 Gbps IPS 14.7 Gbps Threat Protection 3.4 Gbps SSL Decryption 770 Mbps Ethernet Interface 8x GbE, 2x 10 GbE SFP+ Flexi Port Slots Power Supply Redundancy – Internal
DEEP PACKET INSPECTION:	TLS 1.3 inspection, Intrusion Prevention (IPS) Treat Protection Detection Proxy-based dual-engine AV Scanning Perimeter defenses, Blocking Policy
ENCRYPTED TRAFFIC:	TLS 1.3, Intelligent Traffic Selection Pre-packaged exception list, Powerful policy engine, Ports/Protocol, Support all Cypher Suites Unmatched visibility and error handling
MACHINE LEARNING PROTECTION:	Multiple Machine Learning Models Static File Analysis
CLOUD SANDBOX:	Dynamic Analysis Deep learning Static File Analysis
WEB PROTECTION:	Advance Web Protection, Pharming Protection, HTTPs Scanning, Potential unwanted app control
SECURITY:	Security Heartbeat, Destination Heartbeat Protection, Synchronized App Control, Lateral Movement Protection, Synchronized User ID, Multi-layered, call-home protection, Intelligent Firewall Policies, Traffic light style indicators
USER IDENTIFY:	User identity powers all firewall policies and reporting, User Threat Identification and Monitoring, Synchronized User ID, Flexible authentication options including directory services, two-factor authentication options including directory services.
SOFTWARE:	Manufacture built-in software, Remote Management
FORM FACTOR:	Rack Mounted
STANDARD:	PoE Standard 802.3at, 802.3af
VOLTAGE REQUIREMENT:	120-220AC Volt How swappable power supply
REGULATORY:	1RK47-0E7, FCC Class A, ICES Class A, CE EMC Class A, LVD RoHS, C-Tick, VCCI Class A, TUV/GS, NIST (National Institute of Standard and Technology) , DISA (Defense Information System Agency)

Warranty: standard warranty, customer replaceable unit, on-site support and services

INCLUSION:

QTY	UNIT	ITEM	DESCRIPTION
1	pc	POWER SUPPLY	Hot swappable power supply

1	pc	MODULE	Connector for PoE Power Module
5	pax	TRAINING	Certificate of Reservation to ICT Training - 5pax inclusion of meal and accommodation (indoor/outdoor)

REFERENCE NO: B.4
CATEGORY: HARDWARE - B. Network Security and Switches

QUANTITY	ITEM	CLASSIFICATION
1	Network	DMZ APPLIANCE

TECHNICAL SPECIFICATION:

PERFORMANCE:	DMZ APPLIANCE 65 Gbps IPSec VPN 6.1 Gbps IPS 14.7 Gbps Threat Protection 3.4 Gbps SSL Decryption 770 Mbps Ethernet Interface 8x GbE, 2x 10 GbE SFP+ Flexi Port Slots Power Supply Redundancy – Internal
DEEP PACKET INSPECTION:	TLS 1.3 inspection, Intrusion Prevention (IPS), Treat Protection Detection, Proxy-based dual-engine AV Scanning, Perimeter defenses, Blocking Policy
ENCRYPTED TRAFFIC:	TLS 1.3, Intelligent Traffic Selection, Pre-packaged exception list, Powerful policy engine, Ports/Protocol, Support all Cypher Suites, Unmatched visibility and error handling
MACHINE LEARNING PROTECTION:	Multiple Machine Learning Models, Static File Analysis
CLOUD SANDBOX:	Dynamic Analysis, Deep learning Static File Analysis
WEB PROTECTION:	Advance Web Protection, Pharming Protection, HTTPs Scanning, Potential unwanted app control
SECURITY:	Security Heartbeat, Destination Heartbeat Protection, Synchronized App Control, Lateral Movement Protection, Synchronized User ID, Multi-layered, call-home protection, Intelligent Firewall Policies, Traffic light style indicators
USER IDENTIFY:	User identity powers all firewall policies and reporting, User Threat Identification and Monitoring, Synchronized User ID, Flexible authentication options including directory services, two-factor authentication options including directory services.
SOFTWARE:	Manufacture built-in software, Remote Management
FORM FACTOR:	Rack Mounted
STANDARD:	PoE Standard 802.3at, 802.3af
VOLTAGE REQUIREMENT:	120-220AC Volt
REGULATORY:	1RK47-0E7, FCC Class A, ICES Class A, CE EMC Class A, LVD RoHS, C-Tick, VCCI Class A, TUV/GS, NIST (National Institute of Standard and Technology) , DISA (Defense Information System Agency)

Warranty: standard manufacturer warranty, customer replaceable unit, on-site support and services

INCLUSION:

QTY	UNIT	ITEM	DESCRIPTION
1	pc	POWER SUPPLY:	Hot swappable power supply
1	pc	MODULE	Connector for PoE Power Module
5	pax	TRAINING:	Certificate of Reservation to ICT Training - 5pax inclusion of meal and accommodation (indoor/outdoor)

REFERENCE NO: B.5
CATEGORY: HARDWARE - B. Network Security and Switches

QUANTITY	ITEM	CLASSIFICATION
2	Network	NETWORK CABINET (6U Switch Rack)

TECHNICAL SPECIFICATION:

CABINET TYPE:	6U Wall Mounted Network Rack Cabinet
RACK TYPE:	Glass Enclosure with Aircon duct hole at the back with intake fan
RACK HEIGHT:	6U
RACK DEPT:	Shallow
MAX DEVICE DEPT (cm):	41.94
DEVICE COMPATIBILITY:	Patch Panel, Network Switch, UPS
COLOR:	Black
FRONT PANEL:	Tempered Glass Door with keylock
GROUNDING LUG:	Front and Back door frames
BUILT-IN CABLE:	Yes
EXTRA WIDE:	Yes
COOLING FAN:	Cabinet Top with on/off switch to be use as redundant backup if aircon supply fails
RACK SENSOR:	Environmental Temperature heat/fire sensor
POWER OUTLET UNITS:	30A, Single Phase, 4 Standard AC-Power Plug, 100-240V
STANDARD COMPLIANCE:	RoHS, UL/CSA 60950-1 IEA-310-E, IP20 Protecting Rating

Warranty: standard manufacturer warranty, customer replaceable unit, on-site support and services, initial installation and setup.

INCLUSION:

QTY	UNIT	ITEM	DESCRIPTION
2	pc	Patch Panel	Cat6 - 24 Port Network Patch Panel Compatible to 6U racks Future-proof your network connection for 10-Gigabit Ethernet with this durable RJ45 patch panel Gold plated contacts ensure a correction free connection. Numbered ports and color-coded T568A and T568B Network patch panel complies with the UL fire safety requirement (E486099)
50	pc	CAGENUT	M5 Rack Mounted Cagenuts and Screws
20	pc	RJ45 Passthrough	Cat6 RJ-45 Connector Passthrough type, Clear Polycarbonate
100	pc	RJ45 Clear Connector	Ethernet Connector: RJ45 Gender: Male LAN Category: Cat 5e/6a Number of ways: 8 Shield Type: UTP Orientation: Straight Length: 13.71mm Depth: 42.4mm Contact Material: Copper Alloy Contact Plating: Gold

REFERENCE NO: B.6
CATEGORY: **HARDWARE - B. Network Security and Switches**

QUANTITY	ITEM	CLASSIFICATION
1	Network	NETWORK & SERVER STEEL CABINET

TECHNICAL SPECIFICATION:

CABINET TYPE:	Network Cabinet IP54 with Roof-Mounted Cooling Unit Compatible to all network switches 24/48 ports standards, Levelling Feet
DESCRIPTION	IP54 with side-mounted cooling solution, 3 power levels, 1.0-1.9 kW cooling capacity Cooling device for Industrial purposes at high environmental temperature up to +55 degree Celsius, Industrial-qualified steel sheet housings Elektromechanical thermostat and fault indicating contact Temperature selection directly at the device Hose for controlled condensate drain ensures protection of equipment in the cabinet from moisture, Air handling unit (2U above) allows the specific routing of the cold air in front of the 19" level, Supplied completely ready-for-installation including prepared cabinet with all openings, sealing's, cables etc.
FRONT DOOR:	Front door with window made of certified safety glass Profile half-cylinder locking
KEYBOARD DRAWER:	Lockable Keyboard Drawer 2U, pullout on telescopic rails, USB, layout:English US 101 keys with padded palm layer.
MONITOR:	Pull-out shelf depth adjustable 1U for monitor and keyboard
VENTILATION:	Roof Fan with 2 fans 1U Blind Panels for side-mounting - 2 panels in set, serves as blinding and control of the air flow
TEMPERATURE CONTROLLER:	rack mounted 1U, Digital temperature display, Output: 2 relais, dry, programmable 250V AC/2A, Display of relay status, Type of sensor: diode, cable length 3m
LIGHTNING UNIT:	19" Comfort 1U, 2spotlight each, front-sided on/off switch touch-proof housing, power supply via power cord power supply: 230V, 50Hz
CABLE TRAY:	Vertical Cable Management Panel for side-mounting 2 pieces in set 19" Cable Routing Panel for orderly and clear cable routing 3 unit of 40x40mm Cable Routing Bracket 3 unit of 80x80 40x40mm Cable Routing Bracket 3 unit of 85x250 40x40mm Cable Routing Bracket
NOISE:	Noise level 67 dB(A)
POWER SUPPLY:	230V/50Hz, Earthing Cables 5meter
STANDARD COMPLIANCE:	RoHS, UL/CSA 60950-1, IEA-310-E, IP20 Protecting Rating

Warranty: standard manufacturer warranty, customer replaceable unit, on-site support and services, initial installation and setup.

INCLUSION:

QTY	UNIT	ITEM	DESCRIPTION
2	pc	Smoke Detector	Optical Smoke Detector IP40, Measuring Range VdS G29219 Approval
2	pc	Temp Sensor	Temperature Sensor Analog, Measuring Range 50°C
1	set	Blind Panels	For Side-Mounting, for covering the area on the side of the 19" profiles in 42U 800mm width network-and server cabinets Serves as blinding and control of the air flow Mounting left and sided possible
4	pc	Network Patch Panel	19-inch Cat56-Cat6 110-Type Patch Panel For TIA/EIA-T568B/A wiring configuration

2	pc	Cable Panel	19" Cable Routing Panel 1U with front-sided cover color: deep black
2	pc	Cable Panel	19" Cable Routing Panel 2U with front-sided cover color: deep black

REFERENCE NO: B.7
CATEGORY: **HARDWARE - B. Network Security and Switches**

QUANTITY	ITEM	CLASSIFICATION
1	Network Storage	NETWORK ATTACHED STORAGE

TECHNICAL SPECIFICATION:

CPU:	Intel 2.9~3.2 Ghz or above
MEMORY:	4~8GB DDR4 expandable up to 16GB
HARDWARE:	Manufacture Built-in encryption
DRIVE:	2~4bay hot swappable drive bay, SSD Support RAID Technology
EXTERNAL PORT:	3.0 USB port, eSATA port
STORAGE CAPACITY:	10-30TB
LAN PORT:	10/100/1000BaseT, Wake on LAN/WAN, Schedule power on/off
COMPATIBILITY:	All Microsoft Windows Operating System
VOLTAGE INPUT:	AC power voltage 100-240 VAC
SYSTEM FAN:	Built-in
COMPATIBILITY:	Microsoft Windows Server Multi-language Red Hat Enterprise Linux
REMOTE MANAGEMENT SOFTWARE:	Web-based GUI Management Console
FORM FACTOR:	Desktop

Warranty: standard warranty, customer replaceable unit, on-site support and services

REFERENCE NO: B.8
CATEGORY: **HARDWARE - B. Network Security and Switches**

QUANTITY	ITEM	CLASSIFICATION
1	Network	WIRELESS ROUTER

TECHNICAL SPECIFICATION:

ENVIRONMENT:	Indoor
SIMULTANEOUS DUAL-BAND:	Yes
RADIO RATE:	2.4 GHz – 450Mbps 2.4 and 5GHz MIMO – 3x3 5 GHz – 1300Mbps
SECONDARY ETHERNET PORT:	Yes
LOUDSPEAKER:	Built-in
PoE MODE:	802.3at PoE+
FORM FACTOR:	Wall Mount, Ceiling Mount
WIRELESS UPLINK:	Yes
NETWORK INTERFACE:	10/100/1000 Ethernet Ports 10Gbps Ethernet Ports
POWER METHOD:	802.3 af PoE , Input Voltage: 220AC Volt
WIFI-STANDARD:	802.11 a/b/g/n/r/k/v/ac
WIRELESS SECURITY:	WEP, WPA-PSK, WPA-Enterprise (WPA/WPA2,TKIP/AES)
BSSID:	8~32 Radio
STANDARD:	802.11ac Data Rates -6.5Mbps to 867 Mbps 802.11n Data Rate 6.5Mbps to 300 Mbps 802.11a Data Rate 54Mbps 802.11g Data Rate 54 Mbps 802.11b Data Rate 11 Mbps
TRAFFIC MANAGEMENT:	VLAN 802.1Q, Advance QoS, Guest Traffic Isolation, WMM, Concurrent Clients 250+
REMOTE MANAGEMENT:	Web based Console Administration
PoE OUT:	48V Pass-Through
CERTIFICATION:	CE, FC, IC DFS Certification
COMPATIBILITY:	Support All Windows Support Connection to Network Core, Distribution Switches

Warranty: standard warranty, customer replaceable unit, on-site support and services

INCLUSION:

QTY	UNIT	ITEM	DESCRIPTION
5	pc	MOUSE:	Design: Wireless type, 1000 DPI Laser Grade Optical Sensor, Black Connection: Bluetooth, Wireless range 10meter, battery operated Compatible: All Windows Operating System
5	pax	TRAINING:	Certificate of Reservation to Training or Webinar - 5pax inclusion of meal and accommodation (indoor/outdoor)

REFERENCE NO: D.1
CATEGORY: HARDWARE - D. Workstation and Laptop Computers with accessories

QUANTITY	ITEM	CLASSIFICATION
45	Desktop Computer	WORKSTATION COMPUTER

TECHNICAL SPECIFICATION:

CHIPSET:	Intel
PROCESSOR:	Core i5~Core i7 2.7Ghz~3.7Ghz, 12MB cache
GRAPHICS:	Integrated Intel UHD Graphics
MEMORY:	8~16GB, DIMM Socket, DDR4
STORAGE:	SSD 500GB~1TB
CPU DIMENSION:	less than or equal to Height (14-inch), Width (4-inch) Depth (13-inch)
WEIGHT:	less than or equal to 7.0kg
NETWORK:	Onboard GbE Ethernet LAN Port Supports Wake-OnLAN,
WIRELESS:	Built-in Intel Wireless AC (WiFi) Technology
PORTS:	Front Ports: USB 3.1, 2.0 Microphone, Headset Rear Ports: USB 3.1, 2.0, Display Port, HDRMI, Serial, Gigabit Ethernet, Audio Line-out.
FORM FACTOR:	Mini-tower
POWER SUPPLY:	400W or equivalent – 220ACv
CERTIFICATION COMPLIANCE:	HyperWorks, Microstation, GreenGuard, 80PLUS Platinum, Energy Star, ISV Certifications, Esri Certification, PLM Certification

Warranty: standard warranty, customer replaceable unit, on-site support and services

INCLUSION:

QTY	UNIT	ITEM	DESCRIPTION
45	pc	KEYBOARD	USB-wired keyboard, Black, US Standard, All MS Windows Compatible QWERTY keys and NUMPAD, Highlighted Common Microsoft Shortcut keys
45	pc	MOUSE	USB-wireless mouse, Black, All MS Windows Compatible 3-buttons + 1 wheel for scroll 2.4Ghz wireless with nano receiver Strong connection for up to 10 meters
45	pc	MONITOR	LED Monitor 27-inch with Built-in Camera, Full HD infrared sensor HD 1080p Resolution, Input Voltage 220ACvolt
45	pc	SPEAKER MICROPHONE	USB Table SPEAKER Microphone with mute function button Wide pick-up distance up to 10meters, with Noise and Echo Cancellation
45	pc	UPS BACK-UP	700VA/420Watts, 4-6 IEC Outlets, Line-Interactive, 3 Outlet with surge protection, Output Voltage-230v, Input Voltage-220v
5	pax	TRAINING:	Certificate of Reservation to Training or Webinar - 5pax Inclusion of meal and accommodation (indoor/outdoor) – if applicable

REFERENCE NO: D.2
CATEGORY: HARDWARE - D. Workstation and Laptop Computers with Accessories

QUANTITY	ITEM	CLASSIFICATION
6	Desktop Computer	WORKSTATION COMPUTER WITH PRINTER

TECHNICAL SPECIFICATION:

CHIPSET:	Intel
PROCESSOR:	Core i5-Core i7, 2.7Ghz~3.7Ghz, 12MB cache
GRAPHICS:	Integrated Intel UHD Graphics
MEMORY:	8~16GB, DDR4
STORAGE:	SSD 500GB~1TB
CPU DIMENSION:	less than or equal to Height (14-inch), Width (4-inch) Depth (13-inch)
WEIGHT:	less than or equal to 7.0kg
NETWORK:	Onboard GbE Ethernet Port Supports Wake-on-LAN Optional for Ethernet adapters Built-in Intel WiFi
PORTS:	USB 2.0, 3.0, HDMI Port Microphone and Headset Port Audio line-out
FORM FACTOR:	Mini-tower
CERTIFICATION COMPLIANCE:	HyperWorks, Microstation, GreenGuard, 80PLUS Platinum, Energy Star, ISV Certifications, Esri Certification, PLM Certification

Warranty: standard warranty, customer replaceable unit, on-site support and services

INCLUSION:

QTY	UNIT	ITEM	DESCRIPTION
6	pc	PRINTER	Desktop Printer Multi-Function Printer (Print, Scan, Copy) A4, Legal Size Paper tray Ink Bottle/Cartridge Type – Black, Cyan, Magenta, Yellow Input voltage 220v
6	pc	KEYBOARD	USB-wired keyboard, Black, US Standard, All MS Windows Compatible QWERTY keys and NUMPAD, Highlighted Common Microsoft Shortcut keys
6	pc	MOUSE	USB-wireless mouse, Black, All MS Windows Compatible 3-buttons + 1 wheel for scroll 2.4Ghz wireless with nano receiver Strong connection for up to 10 meters
6	pc	MONITOR	LED Monitor 27-inch Built-in Camera, Full HD infrared sensor, HD 1080p Resolution
6	pc	SPEAKER MICROPHONE	USB Table SPEAKER Microphone with mute function button Wide pick-up distance up to 10meters, with Noise and Echo Cancellation
6	pc	UPS BACK-UP	700VA/420Watts, 4-6 IEC Outlets, Line-Interactive, 3 Outlet with surge protection, Output Voltage-230v, Input Voltage-220v

REFERENCE NO: D.3
CATEGORY: **HARDWARE - D. Workstation and Laptop Computers with accessories**

QUANTITY	ITEM	DESCRIPTION
1	Laptop	WINDOWS LAPTOP

TECHNICAL SPECIFICATION:

CHIPSET:	Intel
PROCESSOR:	Intel Core i7~i9, 3.0Ghz and above, 9thGen higher Compliant to multi-threaded performance
DISPLAY:	13~14" diagonal LED Anti-Glare Intel/Nvidia/Radeon Graphics Technology
GRAPHICS:	Integrated Intel UHD Graphics
MEMORY:	8~16GB, DDR4
STORAGE:	1TB TLC SSD
WEIGHT:	1~2 kg / 4 pounds
NETWORK:	100/1000Mbps/10Gbps 802.3ae Ethernet RJ-45 Port Auto-sensing USB-Ethernet Port Adapter
KEYBOARD:	Clickpad, Spill-Resistant, US 101 English Qwerty type
WIRELESS TECHNOLOGY:	Bluetooth 5.0 combo compliant with 802.11 b/g/n/ac standard
MOBILE BROADBAND:	4~5G LTE-Advanced Mobile Broadband
AUDIO:	Dual-stereo speakers multi array microphone
PORTS:	USB-type-C, USB 3.1, headphone/microphone combo, HDMI 2.0
CERTIFICATION:	AMT SSL Certificate compliant to Intel vPro technology EPEAT Registration Energy Start Qualification and TCO Certification Manufacturer Noise Cancellation Software Compliant to multi-threaded Performance

Warranty: standard warranty, customer replaceable unit, on-site support and services

INCLUSION:

QTY	UNIT	ITEM	DESCRIPTION
1	pc	MOUSE:	USB-wireless mouse, Black All MS Windows Compatible 3-buttons + 1 wheel for scroll 2.4Ghz wireless with nano receiver Strong connection for up to 10 meters
1	pc	LAPTOP BACKPACK:	Nylon Materials - Thickly padded laptop with 13~14 inch display Compartment with 10" tablet sleeve / slip pocket / pen loops / zippered compartment / Air Mesh Technology Design for comfort and Breathability
1	pc	CHARGER:	Compatible portable laptop charger for travel
1	pc	PORTABLE SCREEN:	Portable Green Screen 142cm double-sided with case Hook-n-loop straps allow to secure connection to the chair Green background made of Polyester Fabric, Flexible metals shape, collapsible
1	pc	OPERATING SYSTEM:	Windows 10 Professional English x64Edition with DVD Installation DISK and Serial Key sticker, OEM License
1	pc	MS OFFICE:	Microsoft Office 2016 Pro Plus US-English, x64Edition with DVD Installation DISK and Serial Key sticker, OEM License

REFERENCE NO: D.4
CATEGORY: HARDWARE - D. Workstation and Laptop Computer with accessories

QUANTITY	ITEM	DESCRIPTION
2	Laptop	WINDOWS LAPTOP

TECHNICAL SPECIFICATION:

CHIPSET:	Intel
PROCESSOR:	Intel Core i7~i9, 3.0Ghz and above, 9thGen higher Compliant to multi-threaded performance
DISPLAY:	15~17" diagonal LED Anti-Glare, Intel Nvidia/Radeon Graphics Technology
GRAPHICS:	Integrated Intel UHD Graphics
MEMORY:	8~16GB, DDR4
STORAGE:	1TB TLC SSD
WEIGHT:	1~2 kg / 4 pounds
NETWORK:	100/1000Mbps/10Gbps 802.3ae Ethernet RJ-45 Port, Auto-sensing, USB-Ethernet Port Adapter
KEYBOARD:	Clickpad, Spill-Resistant, US English Qwerty Type 101
WIRELESS TECHNOLOGY:	Bluetooth 5.0 combo compliant with 802.11 b/g/n/ac standard
AUDIO:	Dual-stereo speakers Multi array microphone
PORTS:	USB-Type-C, USB 2.0, 3.0, Headphone/Microphone Combo, HDMI 2.0
INPUT VOLTAGE:	AC 220v
CERTIFICATION:	AMT SSL Certificate compliant to Intel vPro technology EPEAT Registration Energy Start Qualification and TCO Certification Manufacturer Noise Cancellation Software Compliant to multi-threaded Performance

Warranty: standard warranty, customer replaceable unit, on-site support and services

INCLUSION:

QTY	UNIT	ITEM	DESCRIPTION
2	pc	MOUSE:	USB-wireless mouse, Black, All MS Windows Compatible 3-buttons + 1 wheel for scroll 2.4Ghz wireless with nano receiver Strong connection for up to 10 meters
2	pc	LAPTOP BAG:	Nylon - Thickly padded laptop with up to 15~17 inch display Type: Backpack Compartment with 10" tablet sleeve / slip pocket / pen loops / zippered compartment / Air Mesh Technology Design for comfort and Breathability
2	pc	PORTABLE SCREEN:	Portable Green Screen 142cm double-sided with case Hook-n-loop straps allow to secure connection to the chair Green background made of Polyester Fabric, Flexible metals shape, collapsible
2	pc	OPERATING SYSTEM:	Windows 10-English x64Edition with DVD Installation DISK and Serial Key sticker, OEM License
2	pc	MS OFFICE:	Microsoft Office 2016 Pro Plus US-English, x64Edition with DVD Installation DISK and Serial Key sticker, OEM License

REFERENCE NO: D.5
CATEGORY: HARDWARE - D. Workstation and Laptop Computers with accessories

QUANTITY	ITEM	DESCRIPTION
1	Laptop	MAC BOOK PRO

TECHNICAL SPECIFICATION:

CHIP:	Apple M1 Chip, 8-Core CPU
DISPLAY:	14"~17", LED-backlit display with IPS Technology 2560-1600 resolution
BATTERY:	Up to 15~18 hours' wireless web Lithium-polymer battery
MEMORY:	8GB expandable to 16GB
STORAGE:	512 GB SSD configurable to 1TB SSD
KEYBOARD:	Backlit Magic Keyboard (U.S.) 101 Keys
TOUCH ID:	Touch ID Sensor
WIRELESS:	Wi-Fi 802.11ax Wi-Fi 6 IEEE 802.11 a/b/g/n/ac compatible Bluetooth 5.0 Wireless Technology
CAMERA:	720p-1020p FaceTime HD Camera
VIDEO SUPPORT:	VGA, HDMI, DVI port
AUDIO:	Stereo Speaker, Three-mic array, 3.5mm headphone jack
INPUT VOLTAGE:	100-240ACV
CERTIFICATION:	Mac Environmental Compliance

Warranty: standard warranty, customer replaceable unit, on-site support and services

INCLUSION:

QTY	UNIT	ITEM	DESCRIPTION
1	pc	MOUSE:	USB-wireless mouse, Black, All MS Windows, Mac OS Compatible 3-buttons + 1 wheel for scroll 2.4Ghz wireless with nano receiver Strong connection for up to 10 meters
1	pc	LAPTOP BACKPACK:	Nylon - Thickly padded laptop with up to 14~17 inch display Compartment with 10" tablet sleeve / slip pocket / pen loops / zippered compartment / Air Mesh Technology Design for comfort and Breathability
1	pc	PORTABLE SCREEN:	Portable Green Screen 142cm double-sided with case Hook-n-loop straps allow to secure connection to the chair Green background made of Polyester Fabric, Flexible metals shape, collapsible
1	pc	OPERATING SYSTEM:	Latest Update for Mac IOS License with Installation Disk and Registration Papers.
1	pc	MS OFFICE:	Microsoft Office 2016 Pro Plus US-English for Mac with DVD Installation DISK and Registration Papers.

REFERENCE NO: D.6
CATEGORY: D. Workstation and Laptop Computers with accessories

QUANTITY	ITEM	CLASSIFICATION
1	Multi-Function Printer	INDUSTRIAL MFP PRINTER

TECHNICAL SPECIFICATION:

GENERAL TYPE:	MULTI-FUNCTIONAL (MFP) PRINTER
PROCESSOR:	Intel, Coretex, AMD
RAM:	2~8GB
STORAGE:	10~50GB
FUNCTION:	Print, Scan, Copy
SCAN FUNCTIONALITY:	Scan-to-e-mail (SMTP) Scan-to-FTP (FTP over SSL) Scan-to-SMB, Scan to USB Host TWAIN scan (USB, network), WSD (WIA) scan (USB, network)
SCAN RESOLUTION:	600, 400, 300, 200 dpi (256 grey scales per color)
SCAN FILE TYPE:	TIFF, PDF, PDF/A , high compression PDF, encrypted PDF, JPEG, XPS
PAPER SIZE:	A4, A5, A6, B5, B6, Letter, Legal, Custom (105 x 148 mm - 216 x 356 mm)
PAPER FEEDER:	Yes
DUPLEX:	Double-sided printing: 60 - 120 g/m ² ; A4, A5, B5, Letter, Legal
COMPATIBILITY:	All Microsoft Windows Operating System
SPEED:	Up to 26~30 pages per minute in color and black and white
DISPLAY CONTROL PANEL:	Touchscreen, color display 7~15 inch screen
RESOLUTION:	1,200 x 1,200 dpi print at reduced speed, multibit technology for print quality of up to 9,600 x 600 dpi (print), 600 x 600 dpi, 256 greyscales per color (scan/copy)
DIMENSION:	400 x 500 x 200 mm
INTERFACE:	USB 2.0 (Hi-Speed) USB Host Inter-face Gigabit Ethernet 10BaseT/100BaseTX/1000BaseT) Wireless LAN, Slot for optional SD/SDHC-Card
CARTRIDGE SUPPLY TYPE:	Toner
PAPER CAPACITY PER TRAY:	400~600 sheets
CERTIFICATION:	BLI Certificate Energy Star Certificate ISO/IEC 24734 ISO/IEC 19798

Warranty: standard warranty, customer replaceable unit, on-site support and services

INCLUSION:

QTY	UNIT	ITEM	DESCRIPTION
20	pc	TONER Black	Equivalent to printer model
20	pc	TONER Magenta	Equivalent to printer model
20	pc	TONER Cyan	Equivalent to printer model
20	pc	TONER Yellow	Equivalent to printer model
			USB-wireless mouse, Black, All MS Windows Compatible

5	pc	MOUSE:	3-buttons + 1 wheel for scroll 2.4Ghz wireless with nano receiver Strong connection for up to 10 meters
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REFERENCE NO: D.7
CATEGORY: **HARDWARE - D. Workstation and Laptop Computer with accessories**

QUANTITY	ITEM	DESCRIPTION
2	Portable Projector	PORTABLE HD PROJECTOR

TECHNICAL SPECIFICATION:

FORM TYPE:	Desktop, Table-top
COLOR:	White, Black
DISPLAY TYPE:	DLP – with Remote Control for operation
SCREEN SIZE:	60"- 140"
ASPECT RATIO:	16:9/Original 4:3 Vertical Zoom
BRIGHTNESS:	Up to 15000 ANSI Lumens
CONTRAST RATIO:	150,000 : 1
NOISE:	25/28/30dB(A)
TRUMOTION:	Yes
WEB OS:	Yes
NATIVE RESOLUTION:	4K UHD (3840 x 2160)
PROJECTION IMAGE:	100" @11.2ft (1.25x) ~ 8.9ft (1.0x)
ZOOM:	x 1.25
LIGHT SOURCE:	4Ch LED
LAMP LIFE:	Up to 30,000 hrs
HDR	HDR10
COMPATIBILITY:	All Windows Operating System
INPUT VOLTAGE:	100-240ACV
CERTIFICATION:	TCO Certified ISO-21118-2012

Warranty: standard warranty, customer replaceable unit, on-site support and services

INCLUSION:

QTY	UNIT	ITEM	DESCRIPTION
5	pc	MOUSE	USB-wireless mouse, Black, All MS Windows Compatible 3-buttons + 1 wheel for scroll 2.4Ghz wireless with nano receiver Strong connection for up to 10 meters
5	pc	KEYBOARD	Black – US English QWERTY Type, Built-in large touchpad for mouse Height: 139.9 mm, Width: 354.3 mm, Depth: 23.5 mm Weight: 390 g (with batteries) Unifying protocol (2.4Ghz) Wireless range >10m Support: Computers, Phones, tablets USB – Wireless Connection
1	pc	PROJECTOR BAG	Nylon Materials - Black Thickly padded projector bag with compartment and slip pocket Airmesh Technology Design, comfort and breathability
5	pax	TRAINING	Certificate of Reservation to ICT Training 5 pax inclusion of meal and accommodation (indoor/outdoor)

REFERENCE NO: D.8
 CATEGORY: HARDWARE - D. Workstation and Laptop Computers with accessories

QUANTITY	ITEM	CLASSIFICATION
lot	Hardware	DSLR CAMERA WITH KIT LENS

TECHNICAL SPECIFICATION:

CAMERA FORMAT:	Full-Frame (1x Crop Factor)
PIXELS:	Actual: 31.7 Megapixel
RESOLUTION:	6720 x 4480
ASPECT RATIO:	1:1, 3:2, 4:3, 16:9
SENSOR TYPE:	CMOS
SENSOR SIZE:	36 x 24 mm
IMAGE FILE FORMAT:	JPEG, Raw
ISO SENSITIVITY:	Auto, 100 to 32000 (Extended: 50 to 102400)
SHUTTER SPEED:	1/8000 to 30 Seconds
WHITE BALANCE:	Auto, Cloudy, Color Temperature, Custom, Daylight, Flash, Fluorescent (White), Shade, Tungsten
CONTINUOUS SHOOTING:	(Raw) / Unlimited Frames
SELF-TIMER:	2/10-Second Delay
RESOLUTION:	1,620,000 Dot
DISPLAY TYPE:	Fixed Touchscreen LCD
MAX SYNC SPEED:	1/200 Second
MEDIA/MEMORY CARD SLOT:	Slot 1: SD/SDHC/SDXC (UHS-I) Slot 2: CompactFlash (UDMA 7)
WIRELESS:	Wi-Fi
GPS:	Yes
BATTERY:	1 x LP-E6N Rechargeable Lithium-Ion, 7.2 VDC, 1865 mAh

Warranty: standard warranty, customer replaceable unit, on-site support and services

INCLUSION:

QTY	UNIT	ITEM	DESCRIPTION
1	pc	KIT LENS	24-70mm f4 Lens Focal Length: 24 to 105mm Maximum Aperture: f/4 Minimum Aperture: f/22 Angle of View: 84° to 23° 20' Maximum Magnification: 0.23x Minimum Focus Distance: 1.48' / 45 cm Optical Design: 17 Elements in 12 Groups Diaphragm Blades: 10, Rounded Focus Type: Autofocus Image Stabilization: Yes Filter Size: 77 mm (Front)
1	pc	Bag	Polyester Materials - Black Thickly padded DSLR bag with compartment and slip pocket Airmesh Technology Design, with shoulder hand carry sleeve comfort and breathability
2	pcs	Battery	LP-E6N Rechargeable Lithium-Ion, 7.2 VDC, 1865 mAh
1	unit	Camera Gimbal	Gimbal Number of Axes 3-Axis (Pitch, Roll, Yaw)

			<p>Rotation Range Yaw (Pan): 360° Pitch (Tilt): -240 to 95° Roll: -112 to 214° Load Capacity 6.6 lb / 3 kg</p> <p>Connectivity Ports 3 x USB Type-C Wireless Frequency 2.4 GHz (2.4 - 2.483) Wireless Protocol Bluetooth 5.0</p> <p>Battery Battery Type 2 x 18650 Capacity (mAh) 3400 mAh Capacity (Wh) 24.48 Wh Battery Runtime 14 Hours</p> <p>Environmental Operating Temperature -4 to 113°F / -20 to 45°C</p> <p>General Materials Aluminum Mounting 1 x 1/4"-20 Female 1 x Cold Shoe Mount 2 x NATO Rail 4 x M4 Female</p> <p>Dimensions 15.7 x 7.3 x 6.9" / 40 x 18.5 x 17.5 cm 10.2 x 8.3 x 3" / 26 x 21 x 7.5 cm (Folded) Weight 2.681 lb / 1.216 kg (without Battery) 2.906 lb / 1.318 kg (with Camera Plate)</p>
5	pax	TRAINING	<p>Certificate of Reservation to Training Inclusion of meal and accomodation</p>

REFERENCE NO: D.9
CATEGORY: HARDWARE - D. Workstation and Laptop Computers with Accessories

QUANTITY	ITEM	CLASSIFICATION
lot	Communication	VIDEO CONFERENCING DEVICE

TECHNICAL SPECIFICATION:

USER INTERFACE:	Gesture-based, multi-touch-capable capacitive touch screen 5-inch color LCD (720x1280 pixel) 9:16 aspect ratio On-screen virtual keyboard, USB type A, USB Micro-B, Bluetooth 5.0 LED multi-colored indicator for mute, power on, standby mode User Interface English International US
CAMERA:	Pan/tilt/zoom camera VGA, DVI, US Supported resolutions and connections Output Resolution HD 1080p (1920x1080) 30~40fps 18X total zoom
EXPANSION SPEAKERPHONE:	Full-duplex Beamforming technology with four omni-directional mics LED Indicator to provide visual alerts when on a call Mute button
AUDIO:	360-degree microphone pick up Loudspeaker Frequency 100-22,000Hz, Volume 92dB 60-70meter/20-30ft microphone pickup range
CODEC:	Supported codec but not limited to G.711, G.719, G.729AB, iLBC (3.33Kbps and 15.2Kbps), Opus (8Kbps-24Kbps) Duplex conversations, acoustic echo cancellation, background noise Suppression-Type 1 compliant IEEE 1329 full duplex. A.I. Noise Block Voice Activity Detection, Comfort noise generation, DTMF tone generation
NETWORK:	Open SIP, Skype for Business, Microsoft teams, Zoom Meeting IETF SIP (RFC 3261 and companion RFCs) SDP Two-Port gigabit Ethernet Switch 10/100/1000Base-TX across LAN in and LAN out, support IEEE 802.3af PSE Wi-Fi network connectivity (802.11x)
MANAGEMENT:	Time and date synchronization using SNTP Manual or dynamic host configuration protocol (DHCP), Web-based remote management and configuration setup FTP/TFTP/HTTP/HTTPS server-based central provisioning
SECURITY:	802.x authentication and EAPOL, Media encryption via SRTP Transport layer security (TLS) v1.2, Encrypted configuration files Digest authentication, Password login, Support password for boot server address, Support for signed software executables Wi-Fi encryption: WEP, WPA-Personal, WPA2-Personal, WPA2-Enterprise with 802.1x (EAP-TLS, PEAP-MSCHAPv2), QoS IEEE 802.1x VLAN tagging layer 3 TOS and DSCP, WMM (Wi-Fi multimedia)
POWER:	LAN IN: Built-in auto-sensing IEEE 802.3at, PoE Device (Class4) (requires full Class 4) power input on LAN IN LAN OUT: Built-in auto-sensing IEEE 802.3af power sourcing equipment.
CERTIFICATION:	USB 2.0, 3.0 Compliant UVC-compliant video and audio for broad application

Warranty: standard warranty, customer replaceable unit, on-site support and services

INCLUSION:

QTY	UNIT	ITEM	DESCRIPTION
1	pc	MOUSE:	USB-wireless mouse, Black, All MS Windows Compatible 3-buttons + 1 wheel for scroll 2.4Ghz wireless with nano receiver

			Strong connection for up to 10 meters
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REFERENCE NO: D.10
CATEGORY: HARDWARE - D. Workstation and Laptop Computer with accessories

QUANTITY	ITEM	CLASSIFICATION
10	Communication	ANDROID TABLET

TECHNICAL SPECIFICATION:

DISPLAY SCREEN:	10~10.5" inch
CPU SPEED:	Octa Core 2.0~3.0 Hz
RAM:	8GB~16GB
ROM:	64~128 GB
CONNECTIVITY:	<ul style="list-style-type: none"> • Wi-Fi 802.11 a / b / g / n / ac 2.4G+5GHz, VHT80 • Bluetooth Version Bluetooth v5.0 • Bluetooth Profiles A2DP, AVRCP, DI, HFP, HID, HOGP, HSP, MAP, OPP, PAN, PBAP • Location Technology GPS, Glonass, Beidou, Galileo • PC Sync. Smart Switch (PC version)
NETWORK BEARER:	<ul style="list-style-type: none"> • 2G GSM GSM850, GSM900, DCS1800, PCS1900 • 4G FDD LTE B1 (2100), B2 (1900), B3 (1800), B4 (AWS), B5 (850), B7 (2600), B8 (900), B12 (700), B17 (700), B20 (800), B28 (700), B66 (AWS-3) • 3G UMTS B1 (2100), B2 (1900), B4 (AWS), B5 (850), B8 (900) • 4G TDD LTE B38 (2600), B40 (2300)
INTERNAL STORAGE:	64GB
DISPLAY RESOLUTION:	1080 x 1920p
CAMERA RESOLUTION:	8-16MP AF + 5-8MP (Front)
EXTERNAL MEMORY SUPPORT:	1TB Expandable Memory
THICKNESS:	6~8mm
WEIGHT:	400~500g
DURABILITY:	Metal Body
COLOR OPTION:	Dark Gray, Silver, Gold
AUDIO FORMAT:	MP4, M4V, 3GP, 3G2, WMV, ASF, AVI, FLV, MKV, WEBM
VIDEO FORMAT:	MP3, M4A, 3GA, AAC, OGG, OGA, WAV, WMA, AMR, AWB, FLAC, MID, MIDI, XMF, MXMF, IMY, RTTTL, RTX, OTA
VIDEO PLAYING RESOLUTION:	1920 x 1080 @ 30~60fps
SENSORS:	Accelerometer, Gyro Sensor, Geomagnetic Sensor, Hall Sensor, Light Sensor
S PEN SUPPORT:	Yes, S-PEN must be included
SPEAKER:	Dual Quad Speaker – Dolby Atmos
INPUT VOLTAGE:	220 ACV
BATTERY CAPACITY:	7,040mAh

Warranty: standard warranty, customer replaceable unit, on-site support and services

INCLUSION:

QTY	UNIT	ITEM	DESCRIPTION
2	pc	Tablet Holder	Foldable Adjustable Stainless Tablet wall mounted stand. Functions: Perfect angle of view and enhance the audio/video experience

			Main Material: Aluminium Alloy , Control mode: Rotatable Sturdy & Rubber Protected: Designed on a low center of gravity makes it stable, and rubber cushions of hooks, bottom protect the phone from scratches and sliding
8	pc	Tablet Case	Genuine Leather Case (Brown and Black Color of choice) - side pocket padfolio organizer - S Pen Holder
10	pc	MicroSD	128GB
10	pc	Headset	Earbuds Headphones with Microphone and Volume Control Tablet compatible

Name and Signature of Authorized Representative

Company Name

Date Signed

Technical Specifications (LOT 4)

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>

	PR 1689 LSD NSHP	
1	DIGITAL PABX	

	SCALABLE MANAGEMENT SYSTEM: Manufacture SDN Software	
	Line Extension Management	
	Unified Operating Management	
	Comprehensive Call logs	
	Advance Interactive A.I. Receptionist Features	
	CONNECTIVITY: 10/100/1000 Mbps Ethernet Port	
	Analog Telephone Port or Adapter	
	IP Phone (SIP)	
	Digital Key Phone	
	Singe Line Telephone (SLT)	
	PSTN (Public Switch Telephone Network	
	IP/DIGITAL OPERATOR CONSOLE: Compatible with IP and Digital Key Phone	
	Alphanumeric Dial Pad Keys	
	Fixed Function Keys (Conference, Redial, Transfer)	
	Built-in LED Display	
	Message Wait and Ringer Lamp	
	Headset Interface Port 3.5mm, USB Port	
	High Quality Full Duplex Speaker Phone	
	Adjustable Desk Stand	
	20-40 Programmable Keys	
	INTERNET SECURITY/GATEWAY APPLIANCE: Connection speed and duplex mode	
	Voltage Input 100-240VAC	
	Network/VLAN Setting	
	Form Factor - Rack Mounted	
	Network Interface 10/100/1000 RJ45 Lan Ports	
	10/100/1000 RJ 45 WANT Ports	
	1/10G SFP + LAN Port and WAN Port	
	IDS/IPS Throughput >= 3.5 Gbps	
	System Memory >= 4GB,	
	On-Board Flash Storage 32 GB eMMC	
	CERTIFICATION: Certification CE, FCC IC	
	SYSTEM FAN: Built-in with redundant	
	AC VOLTAGE INPUT: 220v	
	Inclusion:	
	SIP ACCOUNT 30 users for SIP Account	
	HEADSET Customer Center headset for front desk with microphone and wireless compatible to Digital PABX	
	TRAINING: Certificate of Reservation to Training or Webinar - 5pax inclusion of meal and accommodation (indoor/outdoor)	
2	TELEPHONE VOIP UNIT	
	DISPLAY SCREEN: 5-inch to 10-inch (Diagonal), Multi- touch, Full Color 1080p	
	LED INDICATOR: Power LED, Green, Amber, Standby	
	HANDSET: Dynamic receiver 32 ohm/101 dB/ 30mW	
	Microphone Omni-Directional /-36 dB/2.2K ohm	
	ECHO CANCELLATION: DSP Removing Ambient Noise	
	Acoustic Echo	
	POWER INPUT: PoE 802.3af standard	
	HANDS-FREE SPEAKER: mono/stereo	
	HANDS-FREE MICROPHONE Omnidirectional mono/stereo microphone Bluetooth wireless	

	CONNECTIVITY: 10/100/1000 Ethernet Ports USB 2.0, 3.0, Micro-USB Port, Bluetooth	
	HEADSET SUPPORT: 3.5mm Audio Jack Bluetooth headset	
	OPERATION BUTTON: Volume up/down Media detection Touch screen display	
	HARDWARE: Processor, Storage 10GB, RAM 8GB	
	VOICE CODEC: G.722/Speex/iLBC/PCMU.PCMA/GSM	
	SOFTWARE: Android, Manufacture Communicator Software	
	COMPATIBILITY: Minimum Windows 10 Compatible to DIGITAL PABX (Reference C.1)	
	CERTIFICATION: Broadsoft/FlowRoute/PBXRealtime, CE, FCC IC	
	SYSTEM FAN: Built-in with redundant	
	Inclusion:	
	HEADSET Compatible to Reference No. C.1 (Digital PABX) Telephone Voip Unit requirements	
	RJ45 Patch Cable Compatible to Telephone Voip Unit requirements, 2meters	
	2021-07-1190/LSD/NSHP	
3	USB 3.1 256GB Flash Drive	
4	USB 3.0 Hub, 4-Port	
5	External Hard Drive, 2TB Capacity	
6	Type C to USB Coverter	
7	Extension Cord, Universal Outlet, 6 Gang	
8	4K USB Webcam with HDR	
9	Powerbank, 20,000 mah	
10	Baby Jack Headset with microphone	
11	VideoCard: HD7730 2GB DDR5	
12	Memory: RAM 8GB DDR4 2133	
13	Power Supply: Rave 80 Plus 600 watts	
14	USB External DVD Rewritable Drive	
15	Wireless Presenter Device with laser pointer	
16	USB Extender 3.2 Gen 1 (5Gbps) 15meters	
17	HDMI Extender, 4k Resolution	
18	Intel Gigabit Ethernet Adapter - Data Rate Per Port 10/100/1000 Mbps. - Speed & Slot Width 2.5 GT/s, x1 Lane.	
19	PCI Dual Band WiFi Adapter - IEEE 802.11ac Standard - 2.4-5Ghz upto 867Mbps speed - support WiFi Protocols - high performance two-way transmission - windows compatible	
20	Solid State Drive (SSD) 2.5-inch 1TB	
21	Solid State Hybrid Drive (SSHD) 3.5-inch 1TB	
22	100-inch Motorized HD Projector Screen	
23	Cat6 RJ45 Ethernet Patch cable (6" inch)	
24	Cat6 RJ45 Ethernet Patch cable (0.3m/1ft)	
25	Cat6 RJ45 Ethernet Patch cable (3m/10ft)	
26	RJ45 Rubber Boots	
27	RJ45 Connector	
28	UTP Cat6 Ethernet Cable	

29	Network Microscanner video, data and voice wiring	
	2021-07-1189/LSD/NSHP	
30	Mobile Phone Screen: AMOLED Display OS: Android 11 Chipset: must be Snapdragon 660-680 CPU: Octacore RAM: 6GB Storage: 128GB Capacity Camera: must be 48mp rear and 13mp front Sim Card: Dual (Nano Sim) Network: 4G LTE Battery: min of 4500mAh Li-Po battery	
	2021-1687/LSD/NSHP	
31	PROJECTOR FORM TYPE: Desktop, Tabletop digital with remote control BASIC FUNCTION: Freeze; Output Source Auto Select; Image Brightness Adjustment/Control; Auto-Detect Aspect Ratio EXTENDED FUNCTION: Still Image Capture; Video Capture; Digital Scroll/Pan/Tilt; Image File Play/Slideshow; Split Screen CAMERA: With Optical Zoom, Camera Sensor 1/2.7 inch CMOS Sensor ILLUMINATION: LED Bulb PIXELS: 5MP~16MP (1920x1080 pixels) FRAME-PER-SECONDS (FPS): 30-40 ZOOM: 10x, 12x, 20x, 16x MICROPHONE: built-in OUTPUT RESOLUTION: Full HD (1080p) AV RECORDING: built-in WEIGHT: lightweight (2-3kg) INTERFACE PORT: HDMI, SD, USB-B, VGA, Analog RGB SECURITY: Kensington Lock, Security Lock Hole INPUT VOLTAGE: 100-240ACV CERTIFICATION: TCO Certified	
	With Mouse: USB-wireless mouse, Black, All MS Windows Compatible 3-buttons + 1 wheel for scroll 2.4Ghz wireless with nano-receiver Strong connection for up to 10 meters	
	USB Hub: 4-port USB 3.0 portable hub LED Status Indicators Speed up to 5Gbps	
	Projector Bag: Nylon – Thickly padded projector bag with compartment and slip pocket Air Mesh Technology Design, comfort and breathability	
	Projector holder: Stainless Fabricated Document Projector Holder Wall Mounted to install inside laboratory conference room. Installation of cable tray for electrical and Safety Switch	
	2021-1833/LSD/NSHP	
32	Mobile Tablet CPU: must be atleast Snapdragon 625-660 Core: Octacore System: Android 10 Ram: up to 4GB-6GB ROM: 64 GB or 128 GB	
	Compliance with section VI. Schedule of Requirement	

Name and Signature of Authorized Representative

Company Name

Date Signed

Technical Specifications (LOT 5)

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>

2021-08-1460/GSITD/STO-ICT		
1	PROCESSOR RYZEN 7 RYZEN 7 5800X 8-CORE 16-THREAD 3.80-4.70GHZ PROCESSOR	
2	MOTHERBOARD SOCKET (AM4) GIGABYTE X570 GAMING X Socket (AM4)	
3	Processor: I9-11900K	
4	MOTHERBOARD	
5	Z590 Socket LGA1200	
6	GPU 8GB Memory	
7	RAM 32 GB 3600mhz DDR4 (16x2)	

8	RAM 16 GB 3200MHz DDR4 (8X2)	
9	RAM 8GB 1333MHz DDR3 (8X1)	
10	Power Supply 950watts 80+ Gold	
	2021-08-1459/GSITD/STO-ICT	
11	RJ45 Cat6 RJ45 Plugs Cat6 (100pcs/pack)	
12	HDMI Male to VGA Female adapter	
13	HDMI Cable 5M	
14	HDMI Cable 1.5M	
15	VGA Cable 1.5M	
16	LAN to USB USB 3.0 Hub with Gigabit Ethernet Support 1000Mbps Network Access Extend 3 ports USB 3.0	
17	CPU / monitor power cable power cord 1.5 meter	
18	DATA HUB 4ports USB 3.0 Data Hub Extend 4 ports USB 3.0 1Meter	
19	DESKTOP SPEAKER Desktop Speaker Subwoofer X1 Satellite Speaker X2 Bass, Treble and Volume Control 3.5mm jack	
20	EXTERNAL SSD 500GB 500 GB Connector: USB-C Interface: USB 3.2 Gen 1	
21	SSD SATA 500GB 500GB Internal SSD SATA	
22	COMPUTER CASE: Full tower (ATX)	
23	EXTERNAL BACKUP HUB 10TB EXTERNAL BACKUP PLUS HUB 3.0	
24	PLDT/Smart PORTABLE MODEM WIFI	
	2021-07-1379/GSITD/REGULAR	
25	PSU (1000) Power Supply Unit (PSU) 1000 w 80 plus gold modular	
	2021-07-1378/GSITD/AFACI	
26	Laptop (i7 Touch)Processor: at least i7 Memory: atleast 16GB Display: atleast 13.9: UHD Touch IPS Display Storage: 1TB SSD Input Keyboard: 85-key (Illumintated keyboard) USB port: Thunderbolt 4 (Type-C) USB 3.2 (Type-A) OS: Windows 10 Pro w/ Card Reader	
27	Laptop (i7) Processor: at least i7 Graphics: atleast 1660 4GB GDDR6 Memory: atleast 8GB Display: atleast 15.6" Full HD 240Hz, 3ms Storage: 1TB SSD Input Keyboard: Backlit chicklet keyboard USB port: Thunderbolt 4 (Type-C) USB 3.2 (Type-A) OS: Windows 10 Pro w/ Card Reader	
28	Speaker (Portable) Speaker Type: Full Range Sound Modes: Extra Bass, stamina Mode at least Bluetooth Version 4 USB Type-c	

29	Headphone Type: Closed Dynamic Volume Control: Yes at least Bluetooth Version 4 Battery Charge Method: USB Type-C	
30	Voice Recorder built-in memory: 4GB Built-in Microphone: Stereo Recording Scene Select Sync Recording Function Recording Monitor	
31	Microphone (Desktop) Sample Rate: 48kHz Bit Rate: 16-bit Capsules: 3 Blue-proprietary 14mm condenser capsules Polar Patterns: Cardioid, Unidirectional, Omnidirectional, Stereo Frequency Response: 20 Hz-20 kHz Impedance: 16 ohms Power Output (RMS): 130mW USB 3.0 with backward compatibility	
	2021-07-1222/GSITD/AFACI	
32	Universal socket adapter	
	2021-07-1223/GSITD/STO-ICT	
33	LC Fiber Network Tranciever Module Maximum Data Transfer Rate: 1.25 Gbps Type: Single Mode Fibre Connection Type: LC Connector Maximum Transfer Distance: 20 km	
	2021-07-1214/BUDGET/REGULAR	
34	Laptop Processor: AMD Athlon Silver 3050U dual-core processor Memory: 4GB Storage: 1TB + 128 SSD Graphics: AMD Radeon Graphics Display: 14" OS: Windows 10	
	2021-07-1253/INFO/REGULAR	
35	DSLR 3-AXIS GIMBAL Stabilizer	
36	USB Audio Interface	
37	XLR condenser microphone	
38	3 pin XLR male to female microphone cable	
	2021-07-1256/PLANNING/REGULAR	
39	WEBCAM WITH MIC Specifications: Technical Specifications Max Resolution: 720p/30fps Focus type: fixed focus Lens type: plastic Built-in mic: Mono Diagonal field of view (dFoV): 55"	
	Universal mounting clip fits laptops, LCD or monitors System Requirements Windows® 7 or later macOS® 10.10 later Chrome OS™ USB - A port	

	2021-08-1507/PMS/REGULAR	
40	Web Cam	
	System Requirements: atleast 1GB RAM	
	OS Support: Windows XP, Windows Vista, Windows 7	
	Connection Type: USB	
	USB Type: High Speed USB 2.0	
	Field of View: at least 60 degree	
	Focal Length: at least 4.4mm	
	Video Effects: Fun Filters	
	Right Light: Right light 2	
	USB length: at least 1.5 meter	
	With built in microphone	
41	Ultra Slim Frameless Monitor	
	Display Size (in.): 27 not less than	
	Viewable Area (in.): 27 not less than	
	Resolution: at least 1920 x 1080	
	Resolution Type: FHD	
	Light Source: LED	
	Colors: 16.7M	
	Blue Light Filter: Yes	
	Flicker-Free: Yes	
	COMPATIBILITY	
	PC Resolution (max): 1920x1080 Mac® Resolution (max): 1920x1080 PC Operating System: Windows 10 certified; macOS tested Mac® Resolution (min): 1920x1080	
	CONNECTOR	
	VGA: 1	
	3.5mm Audio Out: 1	
	HDMI 1.4: 2	
	Power in: 3-pin Socket (IEC C14 / CEE22)	
	WEIGHT (METRIC) : Gross (kg): not more than 6	
42	Jack Audio Cable	
	Jack 3.5 mm Male to Male	
	Length: 10mm	
43	Headset for PC	
	with 90-degree rotating ear cups	
	Driver: Dynamic, at least 50mm with neodymium magnets	
	with Intuitive volume control on headset ear cup	
	with Swivel-to-mute noise-cancellation microphone	
	with Adjustable steel slider	
	Cable length and type: Headset (at least 1.3m)	
	MIC: Polar pattern: Uni-directional, Noise-canceling	
	2021-07-1411/ACCOUNTING/REGULAR	
44	PROCESSOR	
	Intel Core i7-11700 (11th Gen)	
45	MOTHERBOARD	
	560 Chipset LGA1200	
	(Compatible w/ 11th Gen Processor)	
46	SSD	
	SSD (Internal M.2 NVMe 500GB)	
	Internal Solid State Drive (SSD)	
	atleast 3GB/s transfer	
	M.2 NVMe	
	500GB	
47	CASING	
	Mid-Tower/USB.30 ports	
	2021-1924/ACCOUNTING/REGULAR	
48	Monitor	

	<p>Size: 27"(16:9) Display Area: 27' (597.89x336.31mm) Panel Technology: AH:IPS Panel Technology: AH:IPS Optimum Resolution: 1920x1080 (Full HD) Viewing Angle: 178' (H)/178'(V) Backlight Life: 30,000 Hrs (Min) Digital: HDMI X1/ Display Port x1 Audio In: 3.5mm jack x1 Audio Out: 3.5mm x1</p>	
	2021-07-1433/PERSONNEL/REGULAR	
49	<p>Keyboard, bluetooth, with tablet slot to hold. DIMENSIONS Height: 7.68 in (195 mm) Width: 11.77 in (299 mm) Depth: 0.79 in (20 mm) Weight: 1.80 lbs (820 g) TECHNICAL SPECIFICATIONS Bluetooth range: up to 10 m Battery life: 2 years On/Off power switch Battery life indicator light SYSTEM REQUIREMENTS Bluetooth wireless computers or mobile devices which support external keyboards (HID profile).</p>	
50	<p>Camera/cellphone tripod ,Tripod + 3-dimensional Damping Head Kit extend to 1460mm Built-in bubble level 360° horizontal and 90° vertical swivel Ball head Grip for adjusting head position 4-sections aluminum legs Gear operated center column Quick release leg lock Non-slip rubber feet Lightweight and portable Material: Aluminum Alloy & Plastic Max. Height:1460mm Folding Height: 460mm Max. Tube width: 20mm Loading Capacity:3kg Weight: 1.3kg</p>	
51	<p>Video and Sound Capture Card 2xHDMI Input – 1 In, 1 out 3.5 jack Input</p>	
52	2x6.5 jack MALE to 3.5 jack MALE	
53	Pocket WIFI, SMART Pocket	
54	<p>Computer Mouse, Wireless Mouse, Connection Type: 2.5GHz wireless connection upto 10m, On/Off Switch, Sensor Resolution: 1000 dpi</p>	
	2021-07-1427/PROPERTY/REGULAR	
55	Processor : Intel core i5-9600 (9th Gen)	
56	Motherboard:360 series motherboard (9th Gen compatible)	
57	RAM: 8GB Single DDR4 2666Mhz	
58	Hard Disk: 1TB Capacity 7200RPM 3.5inch	
59	Power Supply: 500W 80+ High Efficiency	
	2021-07-1211/SCMD/REGULAR	
60	Processor: Intel Core i5 (9th Gen)	
61	Motherboard: 300 series motherboard (9th Gen compatible)	
62	RAM: 8GB Single DDR4	
63	Hard Disk: 1TB 7200RPM 3.5"	
64	PSU: 500W 80% Efficiency	
65	CD ROM	
66	UPS: Secure 650VA 390 watts UPS	
67	Computer Casing: ATX size, with USB 3.0	

	2021-07-1259/SCMD/REGULAR	
68	Web Camera	
	Full High Definition (FHD) with microphone	
	multiple resolution	
	1080P/30fps (Up to 1920 x 1080 pixels)	
	720/ 30fps (up to 1280 x 720 pixels with supported clients H. 26)	
	Focus Type: auto focus	
	Lens Type: glass	
	Built in mic, stereo dual omni directional	
	2021-07-1243/SCMD/R&D CORN	
69	Laptop	
	Operating System: Windows 10 PRO	
	Processor: Intel Core i7-8565U Processor (8M Cache, up to 4.60 GHz)	
	Graphics: 2GB VIDIA GeForce GTX 1050 Max-Q GDDR5 VRAM	
	Display: 15.6-in LED-backlit FHD (1920 x 1080) 16:9 Four-way frameless NanoEdge design with 92% screen-to-body ratio	
	Memory: 16GB 2400MHz DDR4 onboard	
	Storage: 512GB PCIe 3.0 x2 SSD	
	Interfaces: 1 x USB 3.1 Gen 2 Type-C (up to 10Gbps) with display support; 1 x USB 3.1 Type-A (up to 10Gbps); 1 x USB 3.0 Type-A (up to 5Gbps); 1 x HDMI; 1 x SD card reader	
	Keyboard: Full-size backlit, with 1.4mm key travel	
	Touchpad: Glass-covered; intelligent palm-rejection; Precision Touchpad (PTP) technology supports up to four-finger smart gestures; Keyboard Numeric Keypad	
	Audio: SonicMaster stereo audio system with surround-sound; smart amplifier for maximum audio performance Array microphone with Cortana and Alexa2 voice-recognition support; 3.5mm headphone jack; Long-travel voice coils for improved low-frequency response Certified by Harman Kardon	
	Camera: 3D IR HD camera	
	Wifi: Dual-band 802.11ac gigabit-class Wi-Fi	
	Bluetooth: Bluetooth 5.0	
70	Drone with smart controller and with spare parts (battery and propeller)	
	Drone Camera:	
	Sensor: 1" CMOS	
	Effective Pixels: 20 Million	
	Lens FOV: about 77°	
	35 mm Format Equivalent: 28 mm	
	Aperture: f/2.8–f/11	
	Shooting range: 1 m to ∞	
	ISO Range: Video: 100-6400	
	Shutter Speed: Electronic Shutter: 8–1/8000s	
	Still Image Size: 5472x3648	
	Still Photography Modes: single shot	
	Video resolution: 4K: 3840×2160 24/25/30p 2.7K: 2688x1512 24/25/30/48/50/60p FHD: 1920×1080 24/25/30/48/50/60/120p	
	Max Video Bitrate: 100 Mbps	
	Color Mode: Dlog-M (10bit), support HDR video (HLG 10bit)	
	Supported File system: FAT32 (≤ 32 GB) exFAT (> 32 GB)	
	Photo format: JPEG / DNG (RAW)	
	Video format: MP4 / MOV (MPEG-4 AVC/H.264, HEVC/H.265)	
	AIRCRAFT:	

	Takeoff weight: 2.lb / 907 g	
	Dimension Folded:214×91×84 mm (length×width×height)	
	Dimensions Unfolded: 322×242×84 mm (length×width×height)	
	Diagonal Distance:354 mm	
	Maximum ascent speed: 5 m/s (S-mode) 4 m/s (P-mode)	
	Maximum Descent Speed: 3 m/s (S-mode) 3 m/s (P-mode)	
	Maximum Speed(near sea level, no wind) :72 kph (S-mode)	
	Maximum takeoff altitude: 6000 m	
	Maximum flight time (no wind): 31 minutes (at a consistent 25 kph)	
	Maximum Hovering Time (no wind): 29 minutes	
	Maximum Flight Distance (no wind): 18 km (at a consistent 50 kph)	
	Maximum wind Speed Resistance: 29–38 kph	
	Maximum Tilt Angle: 35° (S-mode, with remote controller) 25° (P-mode)	
	Maximum Angular velocity: 200°/s	
	Operating temperature Range: -10°C to 40°C	
	Operating Frequency: 2.400 - 2.483 GHz 5.725 - 5.850 GHz	
	Transmission Power (EIRP): 2.400 - 2.483 GHz FCC : ≤26 dBm CE : ≤20 dBm SRRC : ≤20 dBm MIC : ≤20 dBm 5.725-5.850 GHz FCC : ≤26 dBm CE : ≤14 dBm SRRC : ≤26 dBm	
	GNSS: GPS+GLONASS	
	Hovering Accuracy range: Vertical: ± 0.1 m (when vision positioning is active) ± 0.5 m (with GPS positioning) Horizontal: ± 0.3 m (when vision positioning is active) ± 1.5 m (with GPS positioning)	
	Internal Storage: 8 GB	
	SENSING SYSTEM:	
	Sensing System: Omnidirectional Obstacle Sensing 1	
	Forward: Precision Measurement Range: 0.5 - 20 m Detectable Range: 20 - 40 m Effective Sensing Speed: ≤ 14m/s FOV: Horizontal: 40°, Vertical: 70°	
	Backward: Precision Measurement Range: 0.5 - 16 m Detectable Range: 16 - 32 m Effective Sensing Speed: ≤ 12m/s FOV: Horizontal: 60°, Vertical: 77°	
	Upward: Precision Measurement Range: 0.1 - 8 m	
	Downward: Precision Measurement Range: 0.5 - 11 m Detectable Range: 11 - 22 m	
	Sides: Precision Measurement Range: 0.5 - 10 m Effective Sensing Speed: ≤ 8m/s FOV: Horizontal: 80°, Vertical: 65°	
	Operating Environment: Forward, Backward and Sides: Surface with clear pattern and adequate lighting (lux > 15)	
	Upward: Detects diffuse reflective surfaces (>20%) (walls, trees, people, etc.)	

Downward: Surface with clear pattern and adequate lighting (lux > 15) Detects diffuse reflective surfaces (>20%) (walls, trees, people, etc.)	
CHARGER:	
Input: 100-240 V, 50/60 Hz, 1.8A	
Output: Main: 17.6 V = 3.41 A or 17.0 V = 3.53 A USB: 5 V=2 A	
Voltage: 17.6 ± 0.1 V	
Rated Power: 60 W	
SMART REMOTE CONTROLLER:	
OcuSync 2.0	
Operation frequency range: 2.400-2.4835 GHz, 5.725-5.850 GHz[1]	
Maximum Transmission Distance: 10 km (FCC), 6 km (CE), 6 km (SRRC), 6 km (MIC)	
Transmitter power (IERP): 2.400-2.4835 GHz: 25.5 dBm (FCC), 18.5 dBm (CE), 19 dBm (SRRC), 18.5 dBm (MIC) 5.725-5.850 GHz: 25.5 dBm (FCC), 12.5 dBm (CE), 18.5 dBm (SRRC)	
WIFI:	
Protocol: Wi-Fi Direct, Wireless Display, 802.11a/g/n/ac, Wi-Fi with 2x2 MIMO is supported	
Operation Frequency range: 2.400-2.4835 GHz, 5.150-5.250 GHz 5.725-5.850 GHz	
Transmitter Power (IERP): 2.400-2.4835 GHz: 21.5 dBm (FCC), 18.5 dBm (CE) 18.5 dBm (SRRC), 20.5 dBm (MIC) 5.150-5.250 GHz: 19 dBm (FCC), 19 dBm (CE) 19 dBm (SRRC), 19 dBm (MIC) 5.725-5.850 GHz: 21 dBm (FCC), 13 dBm (CE), 21 dBm (SRRC)	
Bluetooth:	
Protocol: Bluetooth 4.2	
Operation frequency range: 2.400-2.4835 GHz	
Transmitter Power (EIRP): 4 dBm (FCC), 4 dBm (CE), 4 dBm (SRRC), 4 dBm (MIC)	
General:	
Battery: 18650 Li-ion (5000 mAh @ 7.2 V)	
Charge Type : Supports USB power adapters rated 12 V/2 A	
Rated Power: 15 W	
Storage Capacity: ROM 16 GB + scalable (microSD)	
Charging Time: 2 hours (using a USB power adapter rated 12 V/2 A)	
Working Time: 2.5 hours	
Video Output Port : HDMI Port	
Pwer Supply Current/Voltage USB A : 5 V/ 900 mA	
Operation Temperature range: -4° to 104° F (-20° to 40° C)	
Storage Tempearture range: <1 month: -22° to 140° F (-30° to 60° C) 1-3 months: -22° to 113° F (-30° to 45° C) 3-6 months: -22° to 95° F (-30° to 35° C) >6 months: -22° to 77° F (-30° to 25° C)	
Charging Temperature Range : 41° to 104° F (5° to 40° C) Supported Aircraft Models[2] Please visit the official website for the latest information	
GNSS: GPS+GLONASS	

	Dimensions: 177.5 x 121.3 x 40 mm (antennas folded, and the control sticks unmounted) 177.5 x 181 x 60 mm (antennas unfolded, and the control sticks mounted)	
	Weight: Approx. 630 g	
	Model: RM500	
	Supported SD Card: microSDTM Supports microSD cards with a capacity of up to 128 GB and R/W speed up to UHS-I Speed Grade 3	
	Spare Battery (3 Pieces):	
	Battery Type: Three-cell polymer lithium-ion battery	
	Rated capacity: 3500 mAh, 40.42 Wh (typical value)	
	Rated Voltage: 11.55 V	
	Charging Voltage Limit: 13.2 V	
	Discharge Temperature: -10° to 60 °C (14° to 140° F)	
	Charge Temperature: 5° to 40 °C (23° to 113° F)	
	Spare Propeller (3 pairs):	
	Model: 8743 Low-Noise Propeller	
	Diameter x Thread Pitch: 8.7 × 4.3 in (22.00 × 10.92 cm)	
	Weight: 7.9 g for each	
	2021-07-1328/SCMD/REGULAR-R&D CORN	
71	Action camera	
	Type: 4k Action camera	
	Continuous shooting speed: 30 frames per second	
	Image resolution: Up to 12 MP	
	Battery life up to 120 mins	
	Waterproof: 60m with housing and 10 meters without housing	
	Memory: Class 10 MicroSD and SDXC cards are acceptable, Allows maximum storage up to 128GB	
	Display: 2-Inch LCD type TOUCH screen	
	Feature: Voice control, GPS, Bluetooth, WIFI	
	Inclusive of:	
	Housing; adhesive mount; HDMI to micro HDMI cable	
	1 year warranty	
	2021-1448/SCMD/REGULAR	
72	Document Camera High definition USB Document Camera Camera: at least 8.0 megapixel Up to 30 fps live video capture (at full HD) Output: USB 2.0 Video Class (UVC) interface Compatibility: Works with Mac and Windows	
	2021- /SCMD/REGULAR	
73	LED Display for PPT Presentation	
	Screen size: 40 inch	
	Connectivity: Wifi, Lan	
	USB Port: USB 2.0 x 1	
	TV Resolution: Full HD	
	HDMI Port: 2	
	OS: Android Oreo Smart TV	
74	Video Conferencing Tablets	
	Display size: 10.1 inches (diagonal)	
	Memory: At least 3 GB RAM	
	ROM: 64GB	
	OS: at least Android 10	
	Rear Camera: at least 5MP	
	Front Camera: at least 2 MP	
	Wifi frequency at least 2 Ghz	
	with simcard and micro SD slots	

	bluetooth supported	
	OTG/ USB supported	
	Battery: at least 5100 mAh	
75	Portable scanner	
	scan function:	
	scanner type: A4 sheet fed colour scanner	
	sensor type: contact image sensor	
	scanning method: fixed document and moving carriage	
	light source: RGB LED	
	Optical resolution: 600x600 dpi	
	Scanner Bit Depth (Colour): 48-bit input, 24 bit output	
	Scanner Bith depth (graycale): 16-bit input, 8-bit output	
	Scanner Bit Depth (Black and White): 16-bit input, 8 bit output	
	Min Document Size: 50.8x 50.8 mm	
	Max Document Size: 21.6 x 1,82.8 mm	
	Supported Paper Weight: 35-270g/m2	
	Daily Scan Volume: Up to 300 sheets/day	
	Interface: USB 2.0 (Micro B), Wifi	
	Scan Speed:	
	Resolution (Colour/Monochrome): 200dpi; 4.0 sec (Battery)/ 5.5 sec (USB powered) 300dpi; 4.0 sec (Battery)/ 5.5 sec (USB powered) 600dpi; 9.0 sec (Battery)/9.0 sec (USB powered)	
76	Colored Printer	
	Single Function	
	Paper Size: A4, A5, letter, legal, 4x6", 5x7", 8x10"	
	Paper Handling (Rear Tray): Plain Paper	
	2021-1420 /SCMD/MANILA BAY	
77	Compact all-in-one Printer: Print, copy, scan, wireless Scanner type: Single-page document feeder; Print Method: Inkjet Connectivity: USB and wireless Ink Cartridges: Yes (Black and Colored) Media Sizes: up to 215.9mm * 355.6	
78	Portable Sheetfed Document Scanner Scanner Type: Sheet-fed colour scanner Light Source: RGB LED Optical Resolution: 600 x 600 dpi Output Resolution: 50 - 1,200 dpi (in 1 dpi increments) Max Document Size: 216 x 1,828.8 mm Supported Paper Weight: 35 - 270 g/m2 Daily Scan Volume: Up to 300 sheets / day Supported OS: Windows 8.1 / 10 File Format: JPEG, PDF, Searchable PDF, DOCX, XLSX, PPTX*3	
79	Uninterrupted Power Supply Power Capacity: 600W/1000VA Output Voltage on Battery: 230 VAC +/-10% Output Connection: Four (4) Universal Outlets	
80	Keyboard and Mouse Combo, Wireless Connection: 2.4GHz with 1 USB receiver Keyboard: full-size with numpad Mouse: Ergonomic design	
81	9-PortUSB 3.0 Hub (7 USB 3.0 Data Ports and 2 5V/2.4A Smart Charging Ports)	
82	Webcam, 1080P Full HD,	
83	Powerbank, slim and lightweight, 10000mAh	
84	External Hard Disk Drive, 1TB, USB 3.1, (slim with free pouch)	
85	Internal Solid State Drive, 500 GB, at least 3GB/s transfer	

86	Video card/ Graphics Card/ GPU 2Gb, compatible to B85MG	
87	Power Supply with fan (700W)	
	2021-07-1428/WRMD/INS VARIOUS	
88	Wireless Dual Band USB Adapter	
	Up to 400 Mbps on 2.4GHz band and 867 Mbps on 5GHz band Dual band wireless Mini design for convenient portability USB 3.00 Supports Windows 10/8.1/8/7/XP and Mac	
89	Prepaid Wifi	
	LTE-advanced 2.4 & 5GHz Dual Band Network Type-2G, 3G, and 4G 3 LAN Ports Connects up to 5 devices	
90	Headset with Microphone	
	Noise Isolating Can answer/end call Works with common calling applications across almost all platforms Single 3.5 mm jack Cable length: at least 1.8 m Headphone Features: Noise Isolating, answer/end call, high resolution Input Impedance: 22 Ohms Sensitivity (headphone): 122 dB +/- 3 dB Sensitivity (microphone): -44 dBV/Pa +/- 2.5 dB Frequency response (Headset): 20 Hz to 20 kHz Frequency response (Microphone): 100 Hz to 6.5 kHz Cable length: 1.8m dimension Works with common calling applications across almost all platforms	
91	RAM: 8GB (8x1) DDR3 1333Mhz LoDimm	
92	RAM: 8GB (8x1) DDR3 1666Mhz LoDimm	
93	Video Card: GT 1030 2GB	
	2021-07-1439/WRMD/LFP-RWH	
94	Projector	
	Projection System: 3LCD Technology	
	LCD Panel: 0.55 inch	
	Image: Color Light Output: 3,000 Lumen- 2,100 Lumen (economy) White Light Output 3,000 Lumen - 2,100 Lumen Resolution: SVGA, 800 x 600, 4:3 Aspect Ratio: 4:3 Contrast Ratio: 10,000 : 1	
	Optical: Throw Ratio: 1.45 - 1.96:1 Zoom: Digital, Factor: 1.35 Lens: Optical Screen Size: 30 inches - 350 inches Projection Distance Wide/Tele: 1.77 m - 2.4 m (60 inch screen) Projection Lens Focus: Manual	
	Connectivity: USB Display Function: 3 in 1: Image / Mouse / Sound Interfaces: USB 2.0 Type A, USB 2.0 Type B, HDMI in, Composite in, Component in, S-Video in, RGB in, VGA in, Cinch audio in	
95	Computer Set	
	Processor: i5-10500 Motherboard: Z490A-Pro (LGA 1200) Video card: GT 1030 2GB GDDR5 Solid state drive: SATA SSD; Internal Solid-state Drive; at least 3 GB/s transfer; V NAND; 500 GB RAM: 8GB 2666mhz (8x1) DDR5; LoDimm PSU: 550watts; 80+ Hard disk Drive: HDD (Internal hard disk drive); at least 7200	

	RPM 3.5 Case: Casing w/out PSU (for ATX Mobo)	
	2021-07-1438/WRMD/INS-VARIOUS	
96	Document Camera	
	High definition USB document camera atleast 8.0 megapixel up to 30 fps live video capture (at full HD) output: USB 2.0 Video Class (UVC) interface Works with Mac and Windows	
	2021-07-1435/WRMD/INS VARIOUS-CONT.	
97	Smart LED TV	
	Display Size: At least 32-inch 16:9 Ratio	
	Display Resolution: 1920x1080	
	Wifi Ready	
	2021-07-1398/BUKIDNON/REGULAR	
98	Tablets: 8 inch display, At least 3gb RAM,)OS: Android Octa Core, at 32 GB (storage) at Least 5mp(Camera)	
	2021-08-1504/TANAY/IMH-REGULAR	
99	Netbook SPECIFICATIONS: CPU: Atom Processor Model: Atom N455/N570/N435 Processor Speed: 1.66 GHz / 1.33 GHz GPU Model: Intel integrated graphics Memory & Storage RAM: 1GB-2GB Memory Type: DDR3 Storage Type: HDD HDD: 250GB/320GB /500GB Rotational Speed: 5400 rpm Display Size: 10.1 inches Resolution: 1024x600 Network: WiFi 802.11b/g/n Connectivity Connectivity: USB2.0/USB3.0, Camera Software OS: Windows 7/DOS Software OS Ver: Windows 7 Home Basic, Windows 7 Starter, Free DOS Size: Dimensions: 268 x 16-25.4 x 168 mm (with 3-cell battery) 268 x 16-27.4 x 168 mm (with 6-cell battery) Weight 1.15kg	
100	TABLET SPECIFICATIONS: CPU: snapdragon 662 Octa-Core, Screen: 10.4 inch 2000*WUXGA+, 3GB RAM 32 GB Rom, Camera: 8MP+5MP Dual Cameras, Android 10, Battery: 7040mah, USB 2.0 GPS/Glonass?Beidou?Galileo 802.11AC/Bluetooth 5.0 Size: 157.4X247.6X7.0 476 g	
101	LTE signal repeater Kit/set Specifications: 4G gsm 900 DCS, Cable length: N male to N male, 10m/32.8ft, 10dBi 800-2700mhz Outdoor LPDA Antenna: connector type: N Female Cable length: .3 meters, Antenna type: Outdoor LPDA Antenna, Size: 290*210*85 (mm) Waterproof: Yes	
102	Netbook SPECIFICATIONS: CPU: Atom Processor Model: Atom N455/N570/N435 Processor Speed: 1.66 GHz / 1.33 GHz GPU Model: Intel integrated graphics Memory & Storage RAM: 1GB-2GB Memory Type: DDR3 Storage Type: HDD HDD: 250GB/320GB /500GB Rotational Speed: 5400 rpm Display Size: 10.1 inches Resolution: 1024x600 Network: WiFi 802.11b/g/n Connectivity Connectivity: USB2.0/USB3.0, Camera Software OS: Windows 7/DOS Software OS Ver: Windows 7 Home Basic, Windows 7 Starter, Free DOS Size: Dimensions: 268 x 16-25.4 x 168 mm (with 3-cell battery) 268 x 16-27.4 x 168 mm (with 6-cell battery) Weight 1.15kg	

	2021-08-1502/HILLPEZ/RD OTHER REGULAR	
103	SATA SSD 250 GB	
104	Memory 8GB DDR4 3200Mhz	
105	Processor 5 (3rd generation) 2400G	
106	Motherboard-AM4 B450 or B550	
	2021-07-1430/ALMED/SEMLUR/NAPAAAD/REGULAR	
107	Webcam	
	System Requirements: atleast 1GB RAM	
	OS Support: Windows XP, Windows Vista, Windows 7	
	Connection Type: USB	
	USB Type: High Speed USB 2.0	
	Field of View: at least 60 degree	
	Focal Length: at least 4.4mm	
	Video Effects: Fun Filters	
	Right Light: Right light 2	
	USB length: at least 1.5 meter	
	With built in microphone	
108	External Hard Disk SSD, 500GB	
109	2-port USB printer splitter	
110	Home Braodband Wifi	
	2021-07-1415/SSD/REGULAR	
111	Portable scanner, A4 sheet-fed, color scanner, Contact Image Sensor, Scanning method: Fixed document and moving carriage Optical resolution: 600x600 dpi Interface: USB (Micro-B) and Wifi Min. document size: 50.8mm x 50.8mm Max. document size: 216 x 1,828.8 mm	
	2021-1440/SSD/REGULAR	
112	RAM, 8gb, (8x1), DDR4, 1333mhz, Lodimm	
113	RAM, 8gb, (8x1), DDR3, 2666mhz Lodimm	
114	Motherboard, Z390 A-Pro, ATX, LGA1151	
115	Videocard, GT 1030 2GB	
116	SATA SSD, Internal solid state drive, at least 3gb/s transfer, V-NAND, 500GB	
117	PSU, 500 watts, 80+	
	2021-07-1375/BULACAN/OAP HYDRO	
118	Power Cord for PC , heavy duty materials 220v capacity	
119	External Hard Drive 1 TB Military-grade shock resistance* SuperSpeed USB 3.1 Gen 1 compliant Advanced three-stage shock protection system	
120	RJ 45 Connecto 100pcs per box	
121	Desktop Ram 8gb compatible with all ddr3 motherboards Asymmetric heat spreader for stylish heat dissipation Compatible with Intel and AMD platforms	
122	HDMI Cable 5m Type:Coaxial Cables Shielding:Braid Outer Diameter:OD:7.3mm Gender:Male-Male Connector A:HDM IConnector B:HDMI Application:Multimedia	
123	Cat 6 Outdoor Etherner Lan Cable Outdoor cat 6 lan cable 23 AWG with 4 pairs (8C)	

	<p>Suitable for Fast, Gigabit, and 10-Gigabit Ethernet. Supports bandwidth of up to 550 MHz. 1000 feet (305 meters) Designed to withstand sunlight, dirt, and moisture.</p>	
124	<p>Webcam 1080p 30 fps</p>	
125	<p>Vertical Mouse 2.4Ghz Wireless Certification : CE Number of Rollers : 1 DPI : 1600 Package : Yes Number of Buttons : 6 Operation Mode : Opto-electronic Style : Finger Power Type : Battery</p>	
126	<p>Speaker System w/ Subwoofer for Desktop Total Watt (RMS): 25 W Subwoofer: 15 W Satellites: 2 x 5 W 3.5 mm input: 1 Headphone jack: 1 Controls: Power and volume controls on wired control pod</p>	
127	<p>USB Port hub 3.0 with power supply 5 port adapter</p>	
128	<p>Dual Channel Recording Kit for Laptop - Record MP3 audio and play it back through a 300mW speaker- Long battery life enables up to 32hrs recording (MP3 8kbps)- 4GB of memory lets you store up to 1043hrs (MP3 8kbps)- Organise, protect, and delete files and folders- Powered by 2x AAA batteries (included)- BUILT-IN MEMORY: 4GB- INPUT AND OUTPUT TERMINALS : Headphone Jack, Microphone In, USB Port</p>	
129	<p>Wired Keyboard and Mouse Combo - Keyboard SilentTouch Technology Adjustable keyboard height Spill-resistant design 2.4GHz wireless (10 meters) On/Off power switch 2 AAA batteries (Alkaline Battery) Mouse - Contoured compact shape Smooth, responsive cursor control On/off power button 1 AA batteries (Alkaline Battery)</p>	
130	<p>Soundcard w/ Condenser Mic Polar Pattern: Uni- Directional Frequency Response: 20Hz-20KHz Sensitivity: -34dB±2dB (0dB=1V/Pa at 1KHz) Output Impedance: 150Ω±30% (at 1kHz) Load Impedance: >=1000Ω Equivalent Noise Level: 16dBA Max.SPL: 130dB (at 1KHz<=1% T.H.D) S/N Ratio: 78dB Electrical Current: 3mA Sound Card Power Supply: Built-in Lithium Cell (Included)</p>	
131	<p>Network Lan Kit 1 * Cable Crimper 1 * Cable Tester</p>	

	1 * Wire Stripper 1 * Wire Punch Down Impact Tool 1 * Multi Function Wire Stripper and Cutter 1 * Slotted Screwdriver 1 * Phillips Screwdriver 4 * 8P8C Cable Connectors 4 * 6P Phone Cable Connectors 4 * K1 Connection Terminal 4 * Crystal Connector Sheath 1 * Cable Connector Box 1 * Tool Bag	
	2021-07-1431/SWRRD/OAP-BCHA	
132	Videocard, GT130, 2G GDDR5	
133	RAM, 16 GB (8X2) DDR3, 1333 mhz. Lodium	
	2021-07-1412/SWRRD/MANILA BAY	
134	Smart TV Display 40"	
135	ProjectorMethod: FrontLamp Type: LEDCompatible Aspect Ratio: 4:3Contracts Ratio: 1,000:1	
136	Ringlight 10" Mode: Warm Light, Warm white light, White light Dimmable Ring light	
137	Globe Pocket Wifi	
138	Smart Pocket Wifi	
	Compliance with Section VI. Schedule of Requirement	

Name and Signature of Authorized Representative

Company Name

Date Signed

Section VIII. Checklist of Technical and Financial Documents

Notes on the Checklist of Technical and Financial Documents

The prescribed documents in the checklist are mandatory to be submitted in the Bid, but shall be subject to the following:

- a. GPPB Resolution No. 09-2020 on the efficient procurement measures during a State of Calamity or other similar issuances that shall allow the use of alternate documents in lieu of the mandated requirements; or
- b. Any subsequent GPPB issuances adjusting the documentary requirements after the effectivity of the adoption of the PBDs.

The BAC shall be checking the submitted documents of each Bidder against this checklist to ascertain if they are all present, using a non-discretionary “pass/fail” criterion pursuant to Section 30 of the 2016 revised IRR of RA No. 9184.

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.

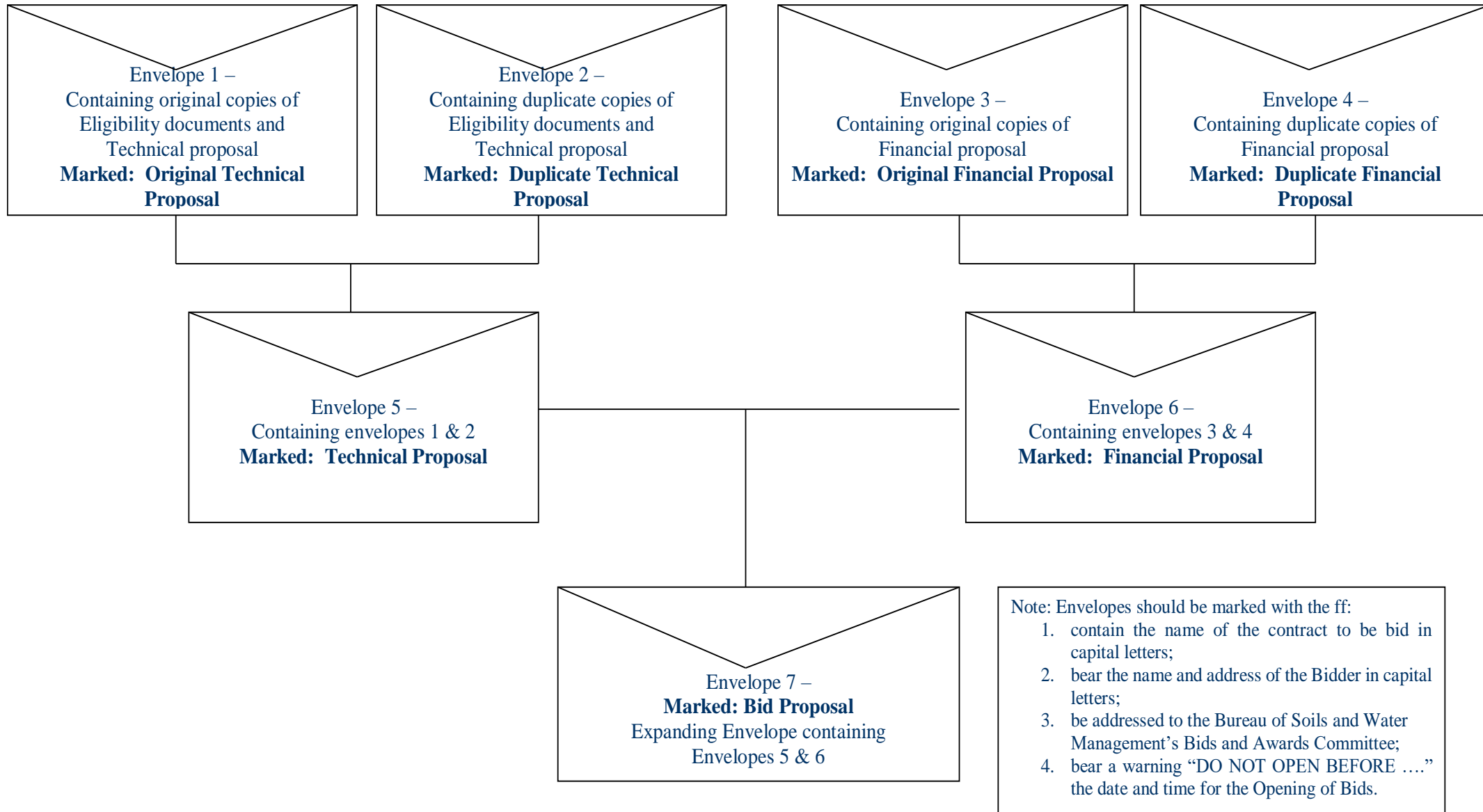
II. FINANCIAL COMPONENT ENVELOPE

- (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.

SEALING OF BIDS





Download from: <https://www.gppb.gov.ph/downloadables.php>

APPENDIX "1"

Bid Form for the Procurement of Goods

[shall be submitted with the Bid]

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]* *[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 of agent	Amount and Purpose of Commission or gratuity
---------------------------	--

_____	_____
_____	_____

(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: _____

Price Schedule for Goods Offered from Abroad

[shall be submitted with the Bid if bidder is offering goods from Abroad]

For Goods Offered from Abroad

Name of Bidder _____ Project ID No. _____ Page ___ of ___

1	2	3	4	5	6	7	8	9
Item	Description	Country of origin	Quantity	Unit price CIF port of entry (specify port) or CIP named place (specify border point or place of destination)	Total CIF or CIP price per Item (col. 4 x 5)	Unit Price Delivered Duty Unpaid (DDU)	Unit price Delivered Duty Paid (DDP)	Total Price delivered DDP (col 4 x 8)

Name: _____

Legal Capacity: _____

Signature: _____

Duly authorized to sign the Bid for and behalf of: _____

Price Schedule for Goods Offered from Within the Philippines

[shall be submitted with the Bid if bidder is offering goods from within the Philippines]

For Goods Offered from Within the Philippines

Name of Bidder _____ Project ID No. _____ Page ___ of ___

1	2	3	4	5	6	7	8	9	10
Item	Description	Country of origin	Quantity	Unit price EXW per item	Transportation and all other costs incidental to delivery, per item	Sales and other taxes payable if Contract is awarded, per item	Cost of Incidental Services, if applicable, per item	Total Price, per unit (col 5+6+7+8)	Total Price delivered Final Destination (col 9) x (col 4)

Name: _____

Legal Capacity: _____

Signature: _____

Duly authorized to sign the Bid for and behalf of: _____

Bid Securing Declaration Form

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

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

[Jurati]

[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]

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.

[Insert Name and Signature]

[Insert Name and Signature]

[Insert Signatory's Legal Capacity]

[Insert Signatory's Legal Capacity]

for:

for:

[Insert Procuring Entity]

[Insert Name of Supplier]

Acknowledgment

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

Omnibus Sworn Statement (Revised)

[shall be submitted with the Bid]

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]

Performance Securing Declaration (Revised)

[if used as an alternative performance security but it is not required to be submitted with the Bid, as it shall be submitted within ten (10) days after receiving the Notice of Award]

REPUBLIC OF THE PHILIPPINES)
CITY OF _____) S.S.

PERFORMANCE SECURING DECLARATION

Invitation to Bid: [Insert Reference Number indicated in the Bidding Documents]

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

I/We, the undersigned, declare that:

1. I/We understand that, according to your conditions, to guarantee the faithful performance by the supplier/distributor/manufacturer/contractor/consultant of its obligations under the Contract, I/we shall submit a Performance Securing Declaration within a maximum period of ten (10) calendar days from the receipt of the Notice of Award prior to the signing of the Contract.
2. I/We accept that: I/we will be automatically disqualified from bidding for any procurement contract with any procuring entity for a period of one (1) year for the first offense, or two (2) years **for the second offense**, upon receipt of your Blacklisting Order if I/We have violated my/our obligations under the Contract;
3. I/We understand that this Performance Securing Declaration shall cease to be valid upon:
 - a. issuance by the Procuring Entity of the Certificate of Final Acceptance, subject to the following conditions:
 - i. Procuring Entity has no claims filed against the contract awardee;
 - ii. It has no claims for labor and materials filed against the contractor; and
 - iii. Other terms of the contract; or
 - b. replacement by the winning bidder of the submitted PSD with a performance security in any of the prescribed forms under Section 39.2 of the 2016 revised IRR of RA No. 9184 as required by the end-user.

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]

Statement of Completed Similar Contracts

Business Name:

Business Address:

Name of Contract/ Project Cost	a. Owner's Name b. Address c. Telephone Nos.	Nature of Work	Bidders Role		a. Date Awarded b. Date Started c. Date of Completion	Value of Works
			Description	%		
Total						

Note: The following documents shall be presented for verification of the above statement during Post-Qualification:

- 1 Notice of Award OR Notice to Proceed issued by the End user OR its equivalent;
- 2 Copy of actual contract OR its equivalent; and
- 3 Certificate of Completion OR End-user's Acceptance OR Proof of payment

Submitted by: _____
(Printed Name and Signature)

Designation: _____

Date: _____