

PHILIPPINE BIDDING DOCUMENTS

Procurement of OCM Data Center Facility and Centralized Network with Integrated IP Telephony System

**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





Republic of the Philippines
BANGSAMORO AUTONOMOUS REGION IN MUSLIM MINDANAO
OFFICE OF THE CHIEF MINISTER
BIDS AND AWARDS COMMITTEE
Bangsamoro Government Center, Governor Gutierrez Avenue, Rosary Heights VII, Cotabato City 9600

INVITATION TO BID

Procurement of OCM Data Center Facility and Centralized Network with Integrated IP Telephony System

IB No.: OCM-ICO-102023-049

1. The Office of the Chief Minister, Bangsamoro Autonomous Region in Muslim Mindanao (OCM-BARMM), through the General Appropriations Act for the Bangsamoro 2023 intends to apply the sum of **Twenty-Seven Million One Hundred Twenty-Six Thousand Three Hundred Pesos (PHP 27,126,300.00)** being the Approved Budget for the Contract (ABC) to payments under the contract for the **Procurement of OCM Data Center Facility and Centralized Network with Integrated IP Telephony System.**

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

2. The OCM-BARMM now invites bids for the **Procurement of OCM Data Center Facility and Centralized Network with Integrated IP Telephony System.** Delivery of the Services is specified in Section VI. Schedule of Requirements. Bidders should have completed, within three 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 No. 5183.

4. Prospective Bidders may obtain further information from OCM-BARMM and inspect the Bidding Documents at the address given below during 8:00 a.m.-5:00 p.m. during office hours.

5. A complete set of Bidding Documents may be acquired by interested Bidders on **October 18-November 8, 2023, during office hours**, from the given address and website(s) below upon payment of the applicable fee for the Bidding Documents, in the amount of **Twenty-Five Thousand Pesos (PHP 25,000.00)**, pursuant to the latest Guidelines issued by the GPPB. The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person.

The bidder or its duly authorized representative shall present the following documents when purchasing the bidding documents, to wit:

- a. Letter of Intent;
 - b. Proof of Authority. i.e., Special Power of Attorney or Secretary's Certificate; and
 - c. Valid Government issued I.D of the owner or its duly authorized representative.
6. The OCM-BARMM will hold a **Pre-Bid Conference¹** on **October 25, 2023, 9:00 a.m.** via **Zoom Teleconference**, which shall be open to prospective bidders. The zoom details may be requested at ocmbac@bangsamoro.gov.ph.
7. Bids must be duly received by the BAC Secretariat through **manual submission at Bangsamoro Planning and Development Authority (BPDA) Conference Hall 2, Ground Floor, BPDA, Bangsamoro Government Center, Cotabato City**, on or before **November 8, 2023, 8:30 a.m.** Late bids shall not be accepted.
- All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB Clause 14**.
8. Bid opening shall be on **November 8, 2023, 9:00 a.m.** at **Bangsamoro Planning and Development Authority (BPDA) Conference Hall 2, Ground Floor, BPDA, Bangsamoro Government Center, Cotabato City**. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.
9. The OCM-BARMM 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.
10. For further information, please refer to:

Bids and Awards Committee Secretariat

*Office of the Chief Minister- Annex Building, Bangsamoro Government Center,
Bangsamoro Government Center, Gov. Gutierrez Ave.,
Rosary Heights VII, Cotabato City
0917-831-7214
Ocmbac@bangsamoro.gov.ph*

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

11. You may visit the following websites:

For downloading of Bidding Documents:

<https://bangsamoro.gov.ph/transparency/bids-and-awards-committee/#ITB>

Originally signed

MOHD ASNIN K. PENDATUN

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, OCM-BARMM, wishes to receive Bids for **Procurement of OCM Data Center Facility and Centralized Network with Integrated IP Telephony System**, with identification number OCM-ICO-102023-049.

The Procurement Project (referred to herein as “Project”) is composed of 1 lot, 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 GAAB 2023 in the amount of PHP 27,126,300.00.

2.2. The source of funding is:

a. NGA, the General Appropriations Act or Special Appropriations.

3. Bidding Requirements

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

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

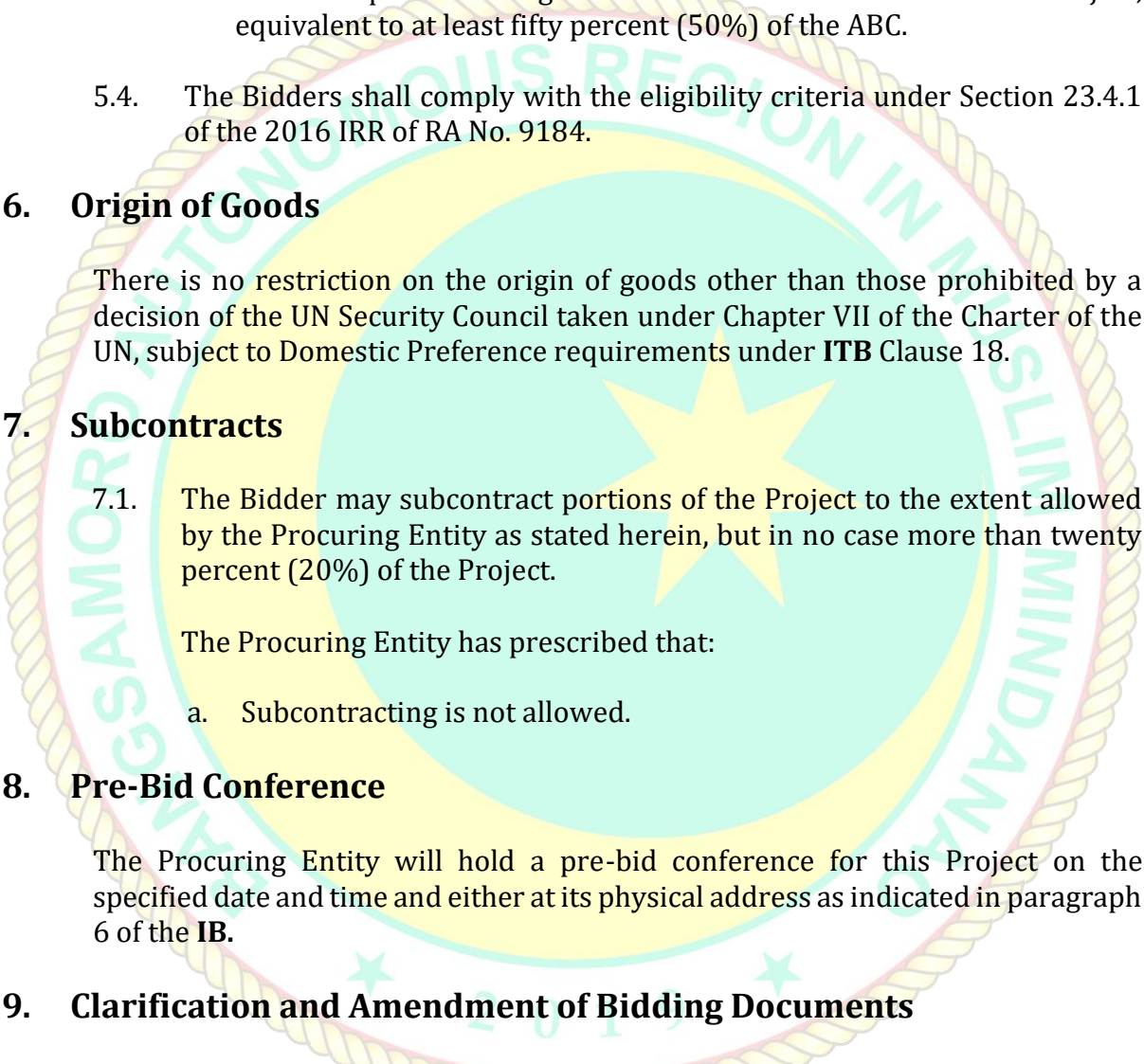
The Bidder, by the act of submitting its Bid, shall be deemed to have verified and accepted the general requirements of this Project, including other factors that may affect the cost, duration and execution or implementation of the contract, project, or work and examine all instructions, forms, terms,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

4. Corrupt, Fraudulent, Collusive, and Coercive Practices

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

5. Eligible Bidders

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

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- 5.2. 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: 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.

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 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 *three years* 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.

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)**.

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 *120 Calendar days counted from the date of opening of bids*. Any Bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

15. Sealing and Marking of Bids

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

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.

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 place, date and time as indicated in paragraph 7 of the **IB**.

17. Opening and Preliminary Examination of Bids

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

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

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

18. Domestic Preference

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

19. Detailed Evaluation and Comparison of Bids

- 19.1. The Procuring 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 items that shall be awarded as one contract.

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

20. Post-Qualification

20.1. Within a non-extendible period of five (5) calendar days from receipt by the Bidder of the notice from the BAC that it submitted the Lowest Calculated Bid, *{[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	
3	<p>Bidders should comply with the prescribed Bidding forms specified in GPPB Circular 04-2020, GPPB Resolution 16-2020, and the Bidding Documents.</p> <p>Bids not addressing or providing all the required items in the above documents shall be considered non-responsive and, thus, automatically disqualified.</p>
5.3	<p>For this purpose, contracts similar to the Project shall be:</p> <ol style="list-style-type: none"> Procurement of Data Center Facility and Centralized Network with Integrated IP Telephony System or any other contract analogous thereto; At least equivalent to 50% of the ABC per lot; and Completed within three years prior to the deadline for the submission and receipt of bids.
7.1	<i>Not applicable.</i>
10.1	The first envelope shall contain the eligibility and technical documents of the Bid as specified in Section IX. Checklist of Technical and Financial Documents arranged and tabbed.
11.1	The second bid envelope shall contain the financial documents for the Bid as specified in Section IX. Checklist of Technical and Financial Documents arranged and tabbed.
12	The price of the Goods shall be quoted in Philippine Peso.
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> <ol style="list-style-type: none"> The amount of not less than _____ <i>[Indicate the amount equivalent to two percent (2%) of ABC]</i>, if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or The amount of not less than _____ <i>[Indicate the amount equivalent to five percent (5%) of ABC]</i> if bid security is in Surety Bond.

15	<p>Each Bidder are requested to submit one (1) original copy and two (2) certified true copies of its Technical and Financial documents certified by the owner or its duly authorized representative whose full name and designation should be indicated below the signature.</p> <p>With respect to the documents that are required by the PBD 6th edition to be original should be originally signed by the bidder or its duly authorized representative, such as, Statement of all ongoing contracts, SLCC, Bid Security, Technical Specifications, Omnibus Sworn Statement, NFCC Computation, Bid Form, and Price Schedule.</p> <p>Each bidder shall submit its bid proposal to a one mother envelope that shall contain three more envelopes containing three copies of its technical and financial documents. Each of the three envelopes shall contain two more envelopes labeled as technical and financial component. The envelopes must be properly and separately marked and sealed.</p>
19.3	<i>Not applicable.</i>
20.2	<i>Not applicable.</i>

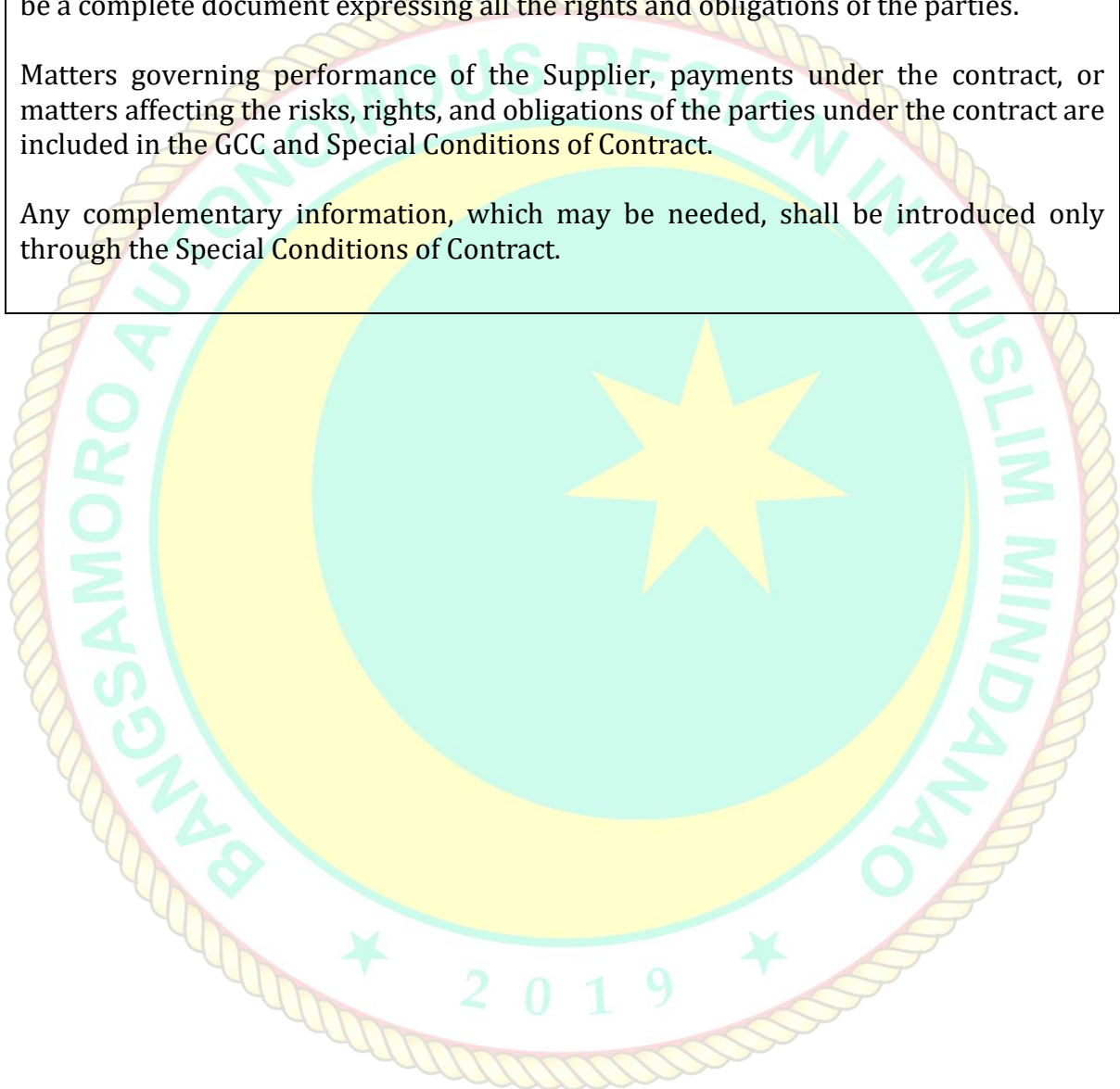
Section IV. General Conditions of Contract

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**.

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

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

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

3. Performance Security

Within ten (10) calendar days from receipt of the Notice of Award by the Bidder from the Procuring Entity but in no case later than 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**

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

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

6. **Liability of the Supplier**

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

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

Section V. Special Conditions of Contract

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

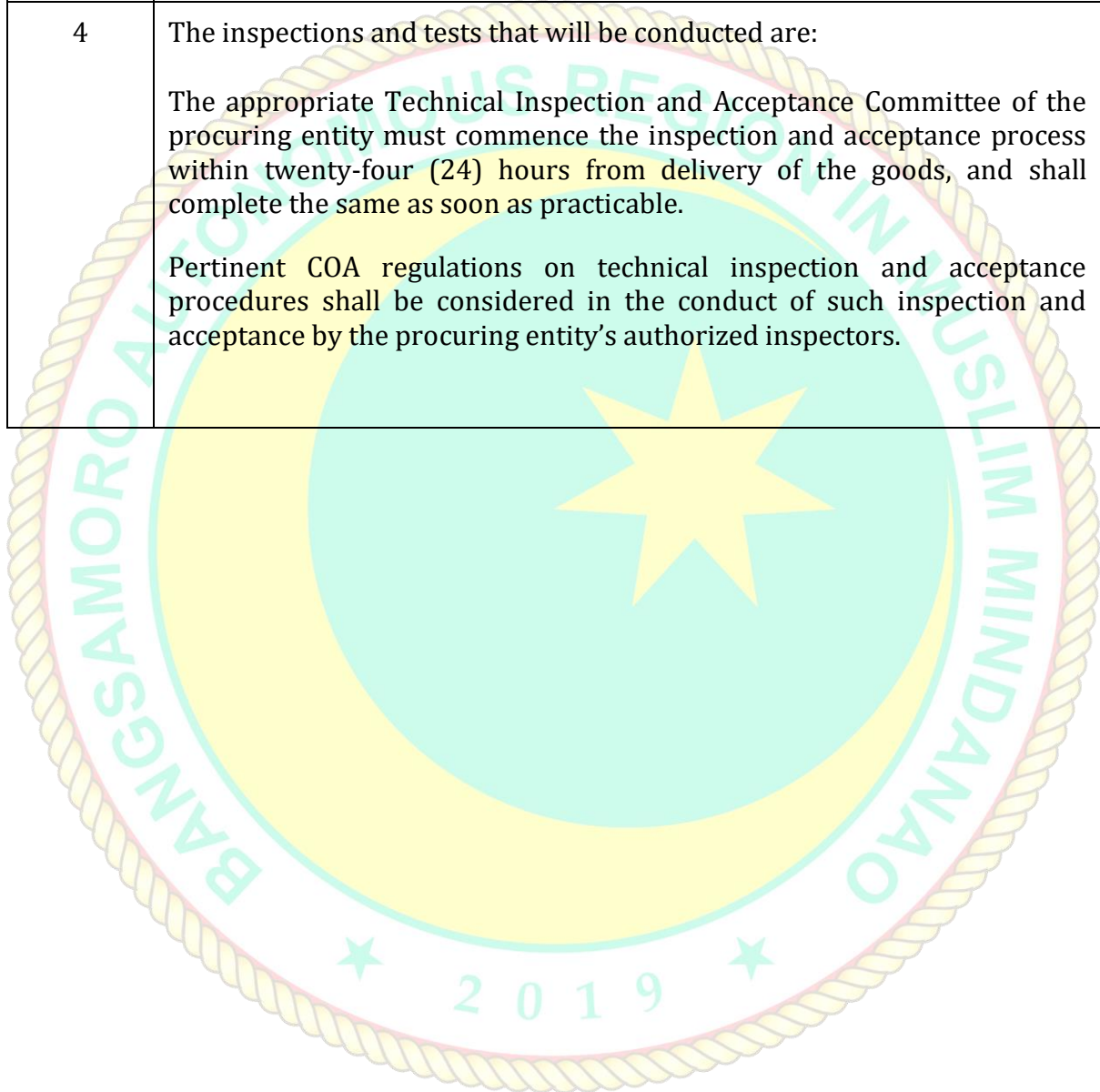
GCC Clause	
1	<p>Delivery and Documents –</p> <p>For purposes of the Contract, “EXW,” “FOB,” “FCA,” “CIF,” “CIP,” “DDP” and other trade terms used to describe the obligations of the parties shall have the meanings assigned to them by the current edition of INCOTERMS published by the International Chamber of Commerce, Paris. The Delivery terms of this Contract shall be as follows:</p> <p><i>[For Goods supplied from within the Philippines, state:]</i> “The delivery terms applicable to this Contract are delivered in Cotabato City. 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:</p> <p>RICHARD P. SANLOCAN Chief Administrative Officer Property and Supply Division</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:</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;

	<ul style="list-style-type: none"> c. furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods; 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
	<ul style="list-style-type: none"> 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>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> <ul style="list-style-type: none"> 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 b. in the event of termination of production of the spare parts: <ul style="list-style-type: none"> i. advance notification to the Procuring Entity of the pending termination, in sufficient time to permit the Procuring Entity to procure needed requirements; and ii. following such termination, furnishing at no cost to the Procuring Entity, the blueprints, drawings, and specifications of the spare parts, if requested.

	<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 (1) year.</p> <p>Spare parts or components shall be supplied as promptly as possible, but in any case, within 1 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</p> <p>Name of the Supplier</p> <p>Contract Description</p> <p>Final Destination</p> <p>Gross weight</p> <p>Any special lifting instructions</p>

	<p>Any special handling instructions</p> <p>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>

	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.
2.2	<p>“The terms of payment shall be as follows:</p> <p>a. Partial Payment is allowed. Such payment must correspond to the value of the goods delivered and accepted.</p>
4	<p>The inspections and tests that will be conducted are:</p> <p>The appropriate Technical Inspection and Acceptance Committee of the procuring entity must commence the inspection and acceptance process within twenty-four (24) hours from delivery of the goods, and shall complete the same as soon as practicable.</p> <p>Pertinent COA regulations on technical inspection and acceptance procedures shall be considered in the conduct of such inspection and acceptance by the procuring entity’s authorized inspectors.</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	Quantity	Delivery Weeks/Months
1	Procurement of OCM Data Center Facility and Centralized Network with Integrated IP Telephony System	1	Within 365 calendar days upon receipt of the NTP

I hereby commit to comply and deliver all the above requirements in accordance with the above stated schedule.

Name of Company/Bidder

Signature over Printed Name
Authorized Representative

Date

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

TERMS OF REFERENCE

Procurement of OCM Data Center Facility and Centralized Network with Integrated IP Telephony System

I. Background

The Information and Communications Office (ICO) of the Office of the Chief Minister (OCM) is mandated to establish reliable Information and Communication Technology (ICT) environment; to ensure the efficient operation of the ICT resources; and to manage, maintain, secure and enhance ICT Infrastructure, Systems, websites, and other ICT resources to support the operations of the Office of the Chief Minister (OCM).

The ICO acknowledges the need to improve productivity and provide an effective delivery of its mandates by establishing a Data Center, interconnecting its office building, upgrading its existing Network Infrastructure and deploying an IP Telephony System. This is seen to be one of the stepping stones for the digitalization and to progress IT Governance of the office.

The project aims to build and establish a reliable and secure Data Center that shall house all the Information Systems, Websites, ICT Management Systems, and other applications and data of the OCM. It also aims to upgrade existing Network Infrastructure's performance, bandwidth and connectivity; and to establish Structured Cabling across three OCM Office Buildings (Office of the Chief Minister - Main Bldg., Office of the Chief Minister - Annex Bldg. and the Shariff Kabunsuan Cultural Complex (SKKC)) and link them to the Data Center through the use of Fiber Optic Cables.

This project shall enable the ICO to efficiently manage, maintain and secure the OCM's ICT Infrastructure and resources, improve confidentiality, integrity and availability of Information System and Data, and allow the office to reduce its operating expenses for internet and landline services, and other ICT Subscriptions.

II. Project Estimates

OCM-ICO intends to apply the sum of **Twenty-Seven Million One Hundred Twenty Six Thousand Three Hundred Pesos (PhP 27,126,300.00)** being the Approved Budget for the Contract (ABC) of the project inclusive of 12% VAT and other duties and taxes.

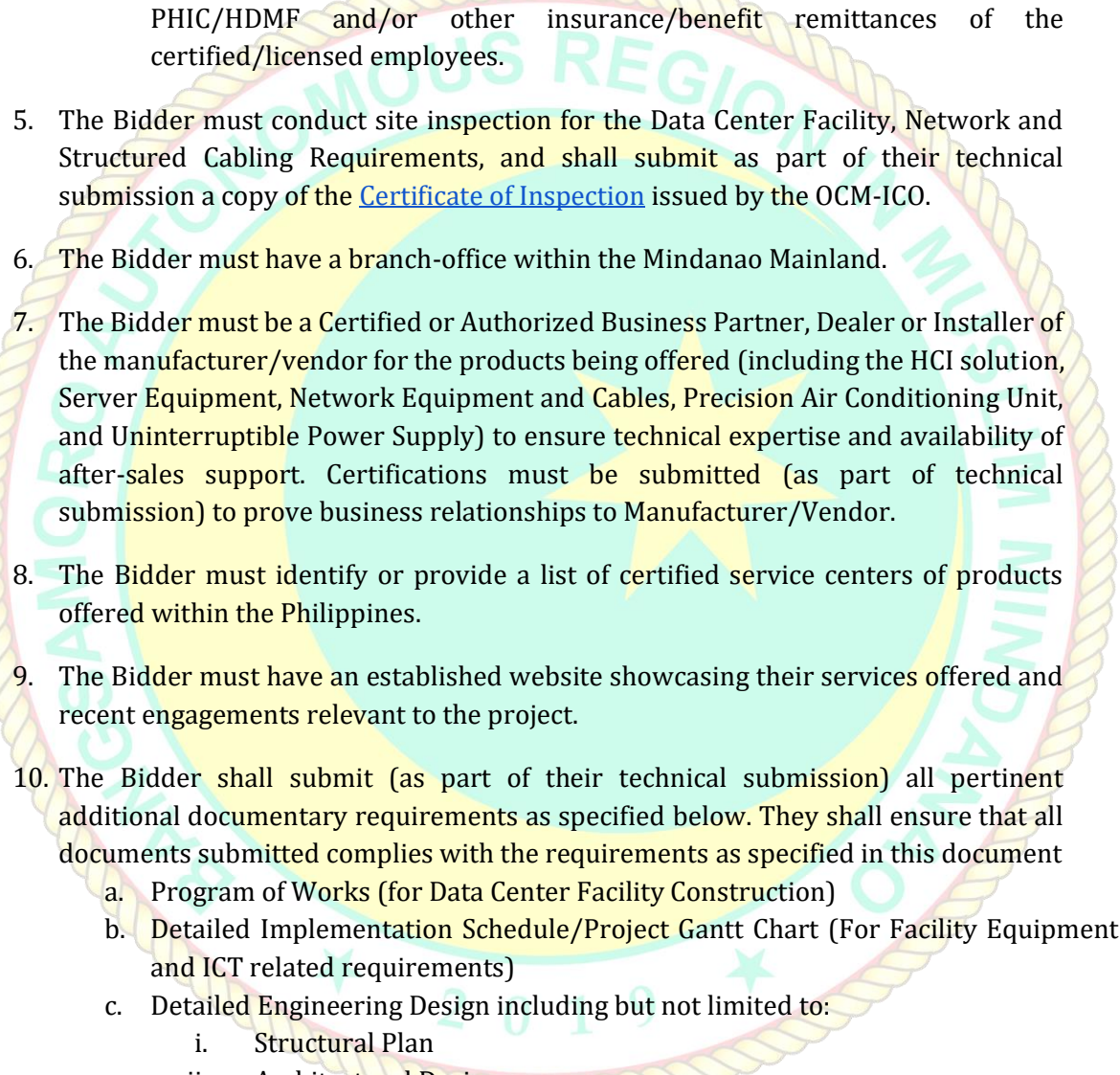
III. Objectives of Procurement

OCM-ICO shall engage the services of a qualified Contractor specializing in Network Infrastructure, Structured Cabling, IP Telephony System and Data Center construction, design and implementation including commissioning and testing with a depth experience in Hyperconverged Infrastructure (HCI) Solutions, and System Integrations. The project shall be implemented across three (3) Office of the Chief Minister buildings,

located at Bansgamoro Government Center, Governor Gutierrez Avenue, Rosary Heights VII, Cotabato City.

IV. Bidder's Eligibility Requirements

1. The Bidder must have at least ten (10) years of experience in undertaking similar projects and shall provide in their list of successfully completed projects.
2. The Bidder must have experienced and implemented the following:
 - a. Successfully completed a similar project with at least fifty (50%) of the ABC within five (5) years from the date of submission and receipt of bids.
 - b. Successfully completed at least two (2) fully deployed, and operationalized Data Center Project within the last five (5) years.
 - c. Successfully completed at least two (2) fully deployed and operationalized two (2) Tier/Collapsed Core (or higher) Network Infrastructure Projects within the last five (5) years
3. The Bidder must provide a Certificate of Completion and Acceptance by the client for the most recent, related and completed Data Center, Network Infrastructure and Structured Cabling Project.
4. The Bidder must provide a list of technical personnel (as part of the technical submission) who shall form part of the implementation team and shall include personnel with the following certification, license and eligibility:
 - a. The Bidder must have at least one (1) project manager certified for at least one (1) industry standard project management certification.
 - b. The Bidder must have at least one (1) Professional-Level Certified Data Center Professional (design, integration and implementation) employed by the bidder for at least three (3) years.
 - c. The Bidder must have at least two (1) Professional-Level Certified Hyper-converged Infrastructure for the HCI Solution vendor and has been employed by the bidder for at least one (1) year.
 - d. The Bidder must have at least one (1) Professional-Level Certified Network Security for the Next-Generation Firewall vendor, and has been employed by the bidder for at least two (2) years.
 - e. The Bidder must have at least one (1) Professional-Level Certified Network Routing and Switching and has been employed by the bidder for at least two (2) years
 - f. The Bidder must employ at least one (1) Professional-Level Industry Certified Telecommunications professional.

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- g. The Bidder must have at least one (1) PRC registered electrical engineer with a minimum two (2) years experience in the UPS-Electrical System installation, configuration and troubleshooting.
- h. The Bidder must have at least one (1) PRC registered civil engineer with minimum three (3) years of experience in building construction and completed at least two (2) Data Center Facility Construction Projects.
- i. The Bidder must provide a copy of the certifications and licenses, certificate of employment, company ID, proof of experience as well as SSS, and PHIC/HDMF and/or other insurance/benefit remittances of the certified/licensed employees.
5. The Bidder must conduct site inspection for the Data Center Facility, Network and Structured Cabling Requirements, and shall submit as part of their technical submission a copy of the [Certificate of Inspection](#) issued by the OCM-ICO.
6. The Bidder must have a branch-office within the Mindanao Mainland.
7. The Bidder must be a Certified or Authorized Business Partner, Dealer or Installer of the manufacturer/vendor for the products being offered (including the HCI solution, Server Equipment, Network Equipment and Cables, Precision Air Conditioning Unit, and Uninterruptible Power Supply) to ensure technical expertise and availability of after-sales support. Certifications must be submitted (as part of technical submission) to prove business relationships to Manufacturer/Vendor.
8. The Bidder must identify or provide a list of certified service centers of products offered within the Philippines.
9. The Bidder must have an established website showcasing their services offered and recent engagements relevant to the project.
10. The Bidder shall submit (as part of their technical submission) all pertinent additional documentary requirements as specified below. They shall ensure that all documents submitted complies with the requirements as specified in this document
- a. Program of Works (for Data Center Facility Construction)
 - b. Detailed Implementation Schedule/Project Gantt Chart (For Facility Equipment and ICT related requirements)
 - c. Detailed Engineering Design including but not limited to:
 - i. Structural Plan
 - ii. Architectural Design
 - iii. Floor Plan/Layout (Data Center)
 - iv. Electrical Plan
 - v. Mechanical Plan
 - vi. Facility Power Block Diagram
 - vii. Electrical One-Line Diagram
 - d. Bill of Materials for
 - i. Data Center Facility
 - ii. Data Center Equipment

- iii. Network Equipment
- iv. Structured Cabling
- v. IP Telephony Equipment
- e. List items for deliverable and shall include brand and model number whenever applicable
- f. Pertinent Product Brochures or Technical Specifications for items offered.

V. Scope of Work

The following is the scope of work of this project:

1. Design, Construction, Furnishing and Commissioning of the entire Data Center Facility
2. Coordinate the end-user and provide assistance for the finalization of the designs and plans of the project
3. Supply, delivery, assembly, installation, configuration, and commissioning of all project components
4. Establish Fiber Optic Backbone Cabling for three (3) OCM buildings, with two (2) redundant and different paths cables for each building going to the Data Center Facility
5. Establish, install and test Five Hundred Sixty (560) structured cabling nodes for three (3) Office of the Chief Minister (OCM) buildings at the Bangsamoro Government Center, Rosary Heights VII, Cotabato City.
6. Establish the office's IP Telephone System with 36 IP telephones distributed across OCM offices in the three (3) OCM buildings.
7. Decommissioning, transfer, configuration and migration of old OCM Server and Network Facility to the new Data Center and Network Facility
8. Provide training, technology and knowledge transfer
9. Provide complete as-built project documentation of the project including designs, layouts, diagrams, configurations and all other necessary technical documentation.
10. Provide maintenance, after-sales and technical support and services
11. Conduct User Acceptance Testing (UAT) of the project.
12. Secure all permits and licenses necessary for the implementation of the project with no additional costs to the office/end-user

VI. General Requirements

1. Shall ensure compliance with pertinent government laws and policies, and nationally recognized standards and regulations such as:
 - a. Presidential Decree No. 1096 or the National Building Code of the Philippines
 - b. Republic Act No. 9514 or the Fire Code of the Philippines of 2008

- c. Latest edition of the Philippine Electrical Code (Institute of Integrated Electrical Engineers of the Philippines)
 - d. All other existing pertinent ordinances, rules and regulations of the national and local government
- 2. Shall abide to conformance with relevant and pertinent industry standards, and best practices such as:
 - a. TIA 942 Data Center Infrastructure Standard Rated Level I and Uptime Institute Standard for Data Center Tier Level I
 - b. ANSI/TIA-568 Commercial Building Telecommunications Cabling Standard and/or ISO/IEC 11801 Information technology — Generic cabling for customer premises
 - c. Manufacturer/Vendor recommended design, installation, configuration, and hardening best-practices
- 3. The Data Center Facility, and Network Infrastructure design and components shall be able to support 24 hours a day 7 days a week 365 days a year (24x7x365) operation.
- 4. All plans, designs, layouts and configurations must be approved by the end-user before implementation. These documents must be duly signed by licensed, certified, accredited or authorized professionals.
- 5. All major construction, installation and configuration, and other major project activities/works must be properly coordinated with the end-user.
- 6. All items must be brand new
- 7. All deliverable devices/equipment and software must not in its End-of-Life (EOL), End-of-Support (EOS) or End-of-Service-Life (EOSL) for the next 5 years
- 8. All deliverable equipment warranty, support and service centers must be available locally within the Mainland Mindanao. Parts must be available within the Philippines.
- 9. All deliverable electronic and ICT devices/equipment's manufacturing company must not be based in China with exemption to the PACU, UPS, Wireless Access Point, IP Telephony, FDAS, Door Access Control and Surveillance System.
- 10. Shall ensure compatibility across all interrelated project components including but not limited to power supply, electrical components, equipment, parts, accessories, housing, connectors, modules, communication medium, and software.
- 11. Shall provide a Certified IT Security Professional that will provide consulting services to ensure security controls and measures are applied.
- 12. Shall ensure the latest firmware and software updates and security patches are installed.
- 13. Shall ensure safety and security measures are considered in the design, layout, construction, and implementation of the project.

14. Shall provide and assign a dedicated project engineer and a project manager to oversee the construction and overall project implementation; and shall provide their contact details.
15. Shall must provide a contact person responsible for restoring service due to outages and provide his/her contact details.
16. Shall be responsible and accountable for the removal and proper disposal of material and waste generated by this project. Debris, surplus materials, etc. shall be removed daily.
17. Shall be held solely responsible for any property or personal damages or claims, including damage to existing structures, systems, equipment, and/or site caused by the bidder shall repair or replace it to its original condition at no additional cost to the office/end-user.

VII. Deliverables

Particulars	Unit	Quantity
Data Center Facility Structure <ul style="list-style-type: none"> • Structural • Architectural Design and Layout • Power and Electrical Facility • Lighting Fixtures and Wiring Devices • Mechanical Civil Works • Environment Monitoring and Control • Heating, ventilation and air conditioning (HVAC) • Rack Cabinet Deployment • Physical Security • Fire Detection and Alarm System • Data Center Equipment and Devices Deployment 	Lot	1
IT Room Server Rack Cabinet (Server)	Sets	4
IT Room Server Rack Cabinet (Network)	Set	1
IT Room Rack Power Distribution Unit	Units	5
Open Bay Rack	Units	2
Data Center Uninterruptible Power Supply (UPS)	Lot	1
Precision Air Conditioning Unit	Lot	1

Split-type Air Conditioning Unit for IT Room	Units	2
Split-type Air Conditioning Unit for EE and Telco Room	Units	2
Fire and Detection Alarm System (FDAS)	Lot	1
Surveillance System	Lot	1
Door Access Control	Units	4
Hyper Converged Infrastructure (HCI) Platform	Nodes	3
Server Appliance for DNS Server	Unit	1
Server Operating System (OS) License (Retail)	Licenses	4
Database Management Software (DBMS)	Licenses	2
Server Endpoint Protection	Licenses	10
Next-Generation Firewall (For IT Room)	Unit	1
Top-of-Rack Switch (For IT Room)	Units	2
Enterprise Core Switches (For IT Room)	Unit	1
Enterprise Access Switches	Units	9
Enterprise Access Switches (PoE)	Units	5
Enterprise Wireless Access Points	Units	6
Network 12U Data Cabinets	Set	1
Network 9U Data Cabinets	Set	4
Rack UPS for Network Data Cabinets	Units	5
Network Transceiver Modules (Data Center - IT Room)	Lot	1
Network Transceiver Modules (Network)	Lot	1
IP Private Branch Exchange (PBX) Appliance	Unit	1
IP Phone - Operator	Unit	1
IP Phone	Units	36
Supply, Deliver and Installation – Structured Cabling and Fiber Optic Cabling	Lot	1
ICT Infrastructure and Systems Design and Configuration	Lot	1
Warranty, Maintenance, and After-Sales Support Services	Lot	1
Training, Technology and Knowledge Transfer	Lot	1

VIII. Technical Specifications

Data Center Facility Structure				
Item No.	Item	Quantity	Unit	Statement of Compliance [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

				<p>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.]</p>
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	<p><u>Structural</u></p> <ul style="list-style-type: none"> • The building structure shall be primarily concrete with specifications appropriate for Data Center Building • The total floor area of the data center shall be at least 60 square meters • Subdivided into four (4) rooms: <ul style="list-style-type: none"> ○ IT Space Room: <ul style="list-style-type: none"> ■ Designed for 10 Rack Spaces with 2 row 5 rack each row layout ■ At least 38 square meters (sqm) Floor Area ■ Raised flooring and shall have sufficient floor loading capability to handle the pressure of fully loaded rack cabinets. ■ Sub-floorings and raised flooring shall be non-combustible and must support the maximum load weight requirements ■ Room entrance shall be large enough for equipment access and to get hardware in and out of the room ■ Shall provide ductworks necessary for the circulation of cold air from the PACU ■ Shall setup, configure and layout Rack-Mounted Equipment and Precision Air Conditioning Unit to manage airflow through hot aisle/cold aisle configuration ■ The room must have no windows ■ shall use fire rated acoustic ceiling panel/boards for ceiling finishes ■ Raised Floor System 	1	Lot	
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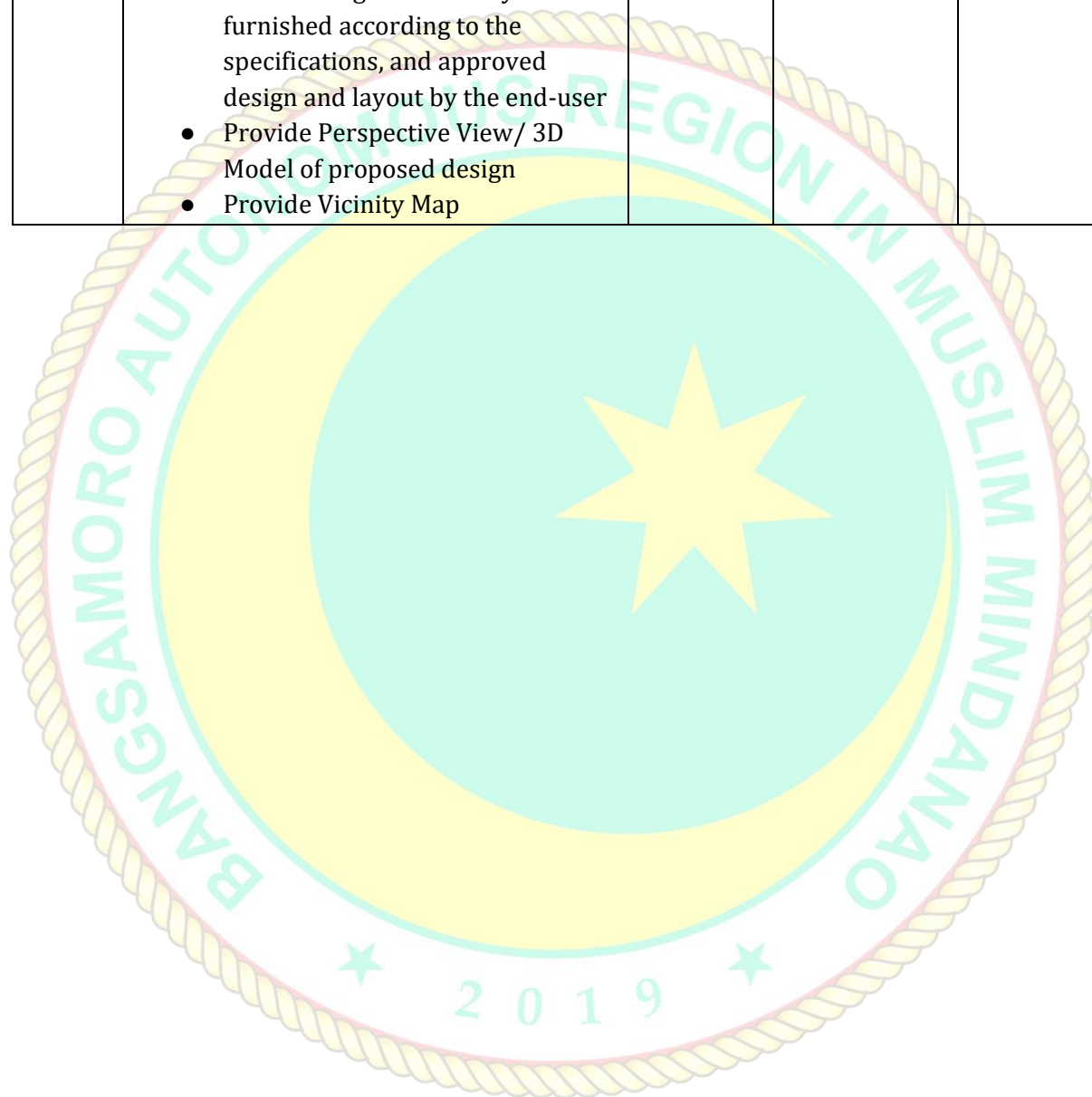
	<ul style="list-style-type: none"> ● Cementitious Infill Core Steel ● Concentrated Load: 1000 lb ● Ultimate Load: 3023 lb ● Uniform Load: 5229 lb ● Impact Load: 150 lb ● Top anti static HPL ● Bottom Galvanized Steel Sheet ● Side with PVC Edge trim ● Edge Reinforcement Rib ● Stringer with Gasket ○ Telco Room: <ul style="list-style-type: none"> ■ Should be able to house of two (2) open bay rack cabinet ■ At least 5 sqm floor area ○ Ante Room: <ul style="list-style-type: none"> ■ Shall serve as the staging point of the equipment for deployment, maintenance and/or troubleshooting ■ At least 5 sqm floor area ○ Electrical room: <ul style="list-style-type: none"> ■ Shall house all the UPS, battery, and electrical panels ■ Posting of As-built electrical layout and circuit inside the electrical panel boards according to its designation ■ Shall ensure to maintain vendor recommended UPS and battery temperature, humidity and environment requirements; and shall provide ventilation, and/or exhaust fans whenever necessary. ■ At least 10 sqm floor area ● The facility shall have enough clearance space for pathways, access aisle and service clearance for moving, installation, maintenance, troubleshooting of equipment and for other Data Center-related work. 			
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	<ul style="list-style-type: none"> • The building shall have proper thermal insulation to ensure efficiency of Air Conditioning Units • The building shall be constructed using fire-resistant and non-combustible materials. • Any glass used in the facility must be fire-rated tempered, reinforced and/or steel/wire mesh glass • Minimum ceiling height of 12 feet from the raised flooring tiles • Minimum reinforced concrete strength shall be 3000 psi (Footing, Column, Tie Beam, Beam, Slab and Suspension Slab) • Shall have floor drainage system to allow water draining incase of water leaks • Roof sufficiently sealed, waterproofed and well-constructed to avoid rain water leaks • Facility must be properly applied with high-quality waterproofing materials that prevent water and moisture from seeping through the walls, roof, floors, etc. • Ground Floor and Walls must have sufficient fireproofing • Upper ceiling constructed to shunt water away from equipment • shall have ramps for easy moving of heavy and large equipment and for compliance of national laws and policies • Data Center entrance doors and door jambs shall be fire rated heavy duty steel with complete accessories and ancillaries • Shall be equipped with floor-panel removers (suction cups) for easy removal of raised-flooring panels • It must have sufficient earthquake safeguards in both its overall 			
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	<p>construction and direct equipment protections</p> <ul style="list-style-type: none"> • Whenever possible, all openings must be properly sealed to prevent rodents and other pests from entering the facility, other openings that are not sealable shall have removable wire mesh or covering 			
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	<p><u>Architectural Design and Layout</u></p> <ul style="list-style-type: none"> • Develop architectural design that shall be for the approval of the end-user • Shall construct the building according to the approved architectural design • The building shall be fully furnished according to the specifications, and approved design and layout by the end-user • Provide Perspective View/ 3D Model of proposed design • Provide Vicinity Map 			
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	<p><u>Power and Electrical Facility</u></p> <ul style="list-style-type: none"> ● All electrical works shall be done in accordance with the provisions of the latest edition of the Philippine Electrical Code, existing applicable ordinances, rules and regulations of the local government and with the requirements of the local power company ● Power feed building wires must have sufficient capacity to support the equipment at full Data Center electrical load requirements ● Shall have electric power interconnected from the Data Center to the designated building power source. ● The service entrance to be supplied shall be 220 volts, 3-phase, 60 hertz system. ● Primary Supply Line shall be 13.8kV, 3P 4W, 60Hz ● The smallest size of current carrying conductor and conduit shall be 3.5 mm² THHN and 20 mm PVC. Respectively. ● Outdoor Power Cables must be properly mounted and must use appropriate conduits. ● Shall use Thermoplastic High Heat-resistant Nylon-coated wire (THHN) stranded copper for building wires and cables ● Wires and cables and its manufacturer shall be compliant to National and/or International Standards such as Underwriters Laboratories (UL), Bureau of Philippine Standards (BPS) and/or other equivalent and relevant certifying bodies ● Shall use proper electrical roughing-ins and fittings accessories and materials ● Electrical design considerations 			
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	<ul style="list-style-type: none"> ○ The IT Room shall support equipment electrical power capacity of 6 kW/rack and a maximum total capacity of 60 kW for 10 racks ○ The Ante Room shall support equipment electrical power capacity of at least 3kW ○ Shall use appropriate wire gauge and shall support the designated maximum power requirements ○ Electrical requirements of other equipment and devices installed ● Electrical wire and cable management <ul style="list-style-type: none"> ○ Must use cable/wire gutters, trays and raceways for routing wires or cables for non buried cables and wires ○ Rack Cabinet electrical cabling shall use different route path from data cables ○ Shall use mica tubing whenever appropriate ○ There shall be no open wiring, no exposed or dangling wires seen ● Must be equipped with proper Grounding System and electronic static discharge (ESD) protection for all applicable electronic devices. ● Must be equipped with Transient Voltage Surge Suppression ● Shall have Electrical Panelboards (Breakers) <ul style="list-style-type: none"> ○ The load capacity of all electrical breakers must be properly sized based on 			
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	<p>the computed load requirements</p> <ul style="list-style-type: none"> ○ Main: 2-225AT / 250AF, 3P, 230V, 25KA, SQ.D ○ Breaker: 125AT, 3P ○ UPS Main Breaker: 125AT, 380V, 2P ○ UPS Sub Main Breaker: 125AT/250AF, 2P, 230V ○ UPS-1 Breaker: 80AT, 230V, 2P ○ UPS-2 Breaker: 80AT, 230V, 2P ○ PACU/ACCU Main Breaker: 150AT, 380V, 3P ○ PACU/ACCU Sub Main Breaker: 150AT/250AF, 380V, 3P ○ PACU-1: 60AT, 380V, 3P ○ ACU-1: 40AT, 230V, 2P ○ ACU-2: 40AT, 230V, 2P ○ ACU-3: 30AT, 230V, 2P ○ ACU-4: 30AT, 230V, 2P ○ ACU-5: 30AT, 230V, 2P ○ SPARE-1: 60AT, 380V, 3P (Provision for PACU 2) ○ SPARE-2: 60AT, 380V, 3P (Provision for PACU 3) ○ SPARE-3: 30AT, 380V, 2P (Provision for ACU 5/EE Room) ○ Lightning Panel Breaker: 60AT, 230V, 2P ○ Power Panel Breaker: 60AT, 230V, 2P ○ Protective Earth: 15kV <ul style="list-style-type: none"> ● Must be equipped with appropriate Lightning and Surge Protection ● All non-current carrying metal used in the electrical system shall be properly grounded in accordance with the requirements of Philippine Electrical code ● All electrical works shall be done under the immediate supervision 			
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	<p>of a duly licensed Professional Electrical Engineer or Registered Electrical Engineer.</p> <ul style="list-style-type: none"> ● Shall perform Testing and Commissioning including continuity testing and must provide test results 			
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	<p><u>Lighting Fixtures and Wiring Devices</u></p> <ul style="list-style-type: none"> ● Provision of weatherproof lighting fixtures with enough lighting to illuminate space ● The lighting system shall be so chosen as to provide a flexible, effective and pleasing visual environment in accordance with the intended use, but with the least possible energy requirements. ● Must have automatic emergency lighting for all rooms with enough illumination during power outage ● Must only use light-emitting diode (LED) for lighting fixtures and emergency lighting ● Provision adequate convenience power outlets for all rooms ● All convenience power outlets must be weatherproof with at least 2-gang 3-prong universal outlets with grounding ● Dedicated circuit breaker for convenience power outlets tapped into EE room ● Dedicated circuit breaker for lighting fixtures tapped into EE room ● Proper tagging of all faceplates and wiring devices 			
	<p><u>Environment Monitoring and Control</u></p> <ul style="list-style-type: none"> ● Provide environmental (humidity and temperature) monitoring and recording ● The IT Room Data Cabinets front temperature shall be maintained at 20 degrees Celsius ● The Data Cabinet front humidity shall be maintained at 40-60 relative humidity (RH) non condensing 			

	<p><u>Heating, ventilation, and air conditioning (HVAC)</u></p> <ul style="list-style-type: none"> • Contractor shall design, develop and implement mechanical civil works necessary for heating, ventilation and air conditioning (HVAC) of the data center • Installation and commissioning of all Air Conditioning Units to its designated areas and shall include all necessary materials and ancillaries to complete the item 			
	<p><u>Rack Cabinets Deployment</u></p> <ul style="list-style-type: none"> • Deploy 5 Rack Cabinets in the IT Room, • Deploy 2 Open Frame Rack Cabinets • Transfer and Deploy 2 existing Rack Cabinets in the Data Center • The Data Cabinets, cable tray, and raised floor must be bonded together to ensure common signal reference point. • All rack cabinets must be seismic-compliant and must have proper seismic-bracing • Avoid Wire Clutter, efficient routing of wires and cables, use zip ties, velcro based ties and eyelets to organize and keep cable safe. shall have proper pathways where wires and connections can travel • Equipment, devices, cables and wires shall have proper designation for labelling, tagging and/or color coding • shall have mounted Power Distribution Units 			

	<p><u>Physical Security</u></p> <ul style="list-style-type: none"> ● Shall strategically positioning, installation, and cabling of IP cameras within and outside the Data Center ● Shall have electronic access control and shall install biometric or two-factor authentication (2FA) locks and access control devices on the room entrance 			
	<p><u>Fire Detection and Alarm System (FDAS)</u></p> <ul style="list-style-type: none"> ● Installation and Cabling of fire alarm control panel, smoke detectors, manual call point, audio/visual alarm device and fire extinguishers 			
	<p><u>Data Center Equipment and Devices Deployment</u></p> <p>Must deploy, install, configure, and commission of the following Data Center equipment and devices:</p> <ul style="list-style-type: none"> ○ 3 units of Hyper-converged Infrastructure (HCI) Nodes ○ 1 unit of Next-Generation Firewall ○ 2 units of Top-of-Rack Switch ○ 1 unit of Core Switch ○ 1 unit of IP PBX Appliance ○ 1 unit of Network Video Recorder ○ 11 units of Surveillance Cameras ○ 1 set of Data Center Uninterruptible Power Supply ○ 1 unit of Precision Air Conditioning Unit ○ 2 units of 2.5 HP Split-type Air Conditioning Unit ○ 2 units of 1 HP Split-type Air Conditioning Unit ○ 1 lot of Fire and Detection Alarm System 			
Data Center Components				

	<u>IT Room Server Rack Cabinet (Server)</u> <ul style="list-style-type: none"> ● 42U Server Rack ● Enclosure 600mm x 1200mm with Sides Black ● 60% Perforated doors ● rated at least 1000 kg static load ● Shall include necessary rack accessories including but not limited to: <ul style="list-style-type: none"> ○ 48 ports Category 6 Patch Panel ○ Horizontal Cable Managers ○ Vertical Cable Managers ○ Fiber Patch Panels 	4	Sets	
	<u>IT Room Server Rack Cabinet (Network)</u> <ul style="list-style-type: none"> ● 42U Server Rack ● Enclosure 800mm x 1200mm with Sides Black ● 60% Perforated doors ● rated at least 1000 kg static load ● Shall include necessary rack accessories including but not limited to: <ul style="list-style-type: none"> ○ 48 ports Category 6 Patch Panel ○ Horizontal Cable Managers ○ Vertical Cable Managers ○ Fiber Patch Panels 	1	Set	
	<u>IT Room Rack Power Distribution Unit</u> <ul style="list-style-type: none"> ● 32 Way Smart PDU 32A, ● 28 C13 + 4 C19 Sockets, ● 3 Meters IEC60309 Type Power Cord, ● Two Breaker ● Power Cords C13 to C14 	5	Units	
	<u>Open Bay Rack</u> <ul style="list-style-type: none"> ● Shall provide 144 ports Optical Distribution Frames for each rack ● 7 feet ● Open bay rack 	2	Sets	

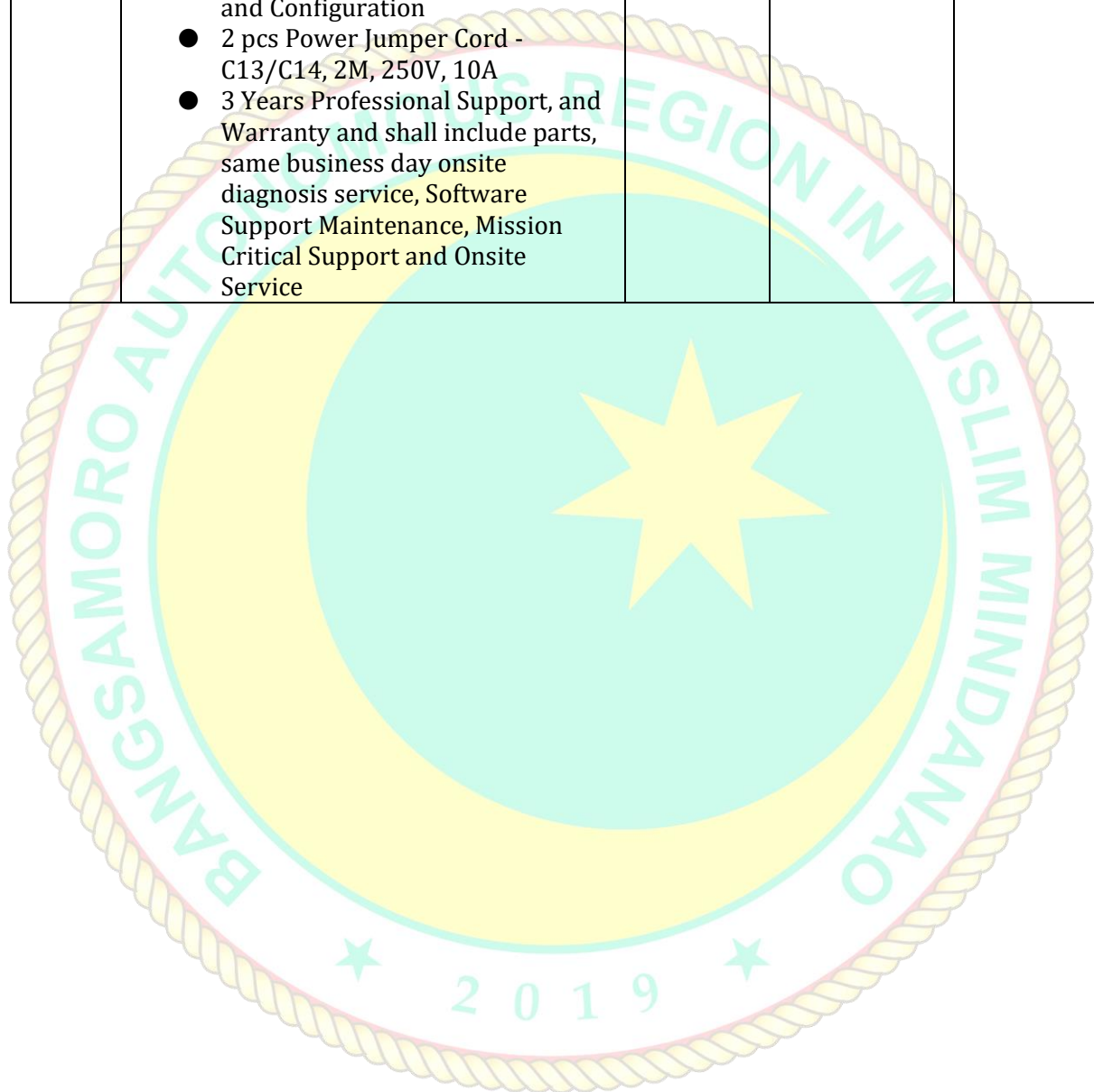
	Data Center Uninterruptible Power Supply (UPS) <ul style="list-style-type: none"> ● 3Ph+N+PE,380V/400V/415V ● UPS is a three in and three out online type; ● UPS capacity: 20KVA; ● Output power factor: 0.9; ● VFI Regulated; ● System efficiency: 95% in main mode; 95% battery mode; ● Battery DC voltage: $\pm 240\text{VDC}$; ● Standard RS232 communication interface; ● 12V 38Ah (20 units) ● Shall include management modules (if applicable) ● With software and must be accessible via Network ● 2 years warranty and Quarterly Maintenance against defects without additional cost and training on operations & maintenance. 	1	Lot	
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	Precision Air Conditioning Unit <ul style="list-style-type: none"> ● Cooling capacity: 18.5kw or better; ● R410A refrigerant; ● 380V/400v/3ph/60hz; ● Air volume: 5100m3/h; ● Air cooled; Controller ● Compressor ● Outdoor condenser ● Fan: Indoor fan; Outdoor fan; ● Heating and Cooling function ● Downflow Air Supply ● Aluminum floor Air grill with opposed blade dumpers ● Shall include management modules (if applicable), software and must be accessible via Network ● Complete with refrigerant line, line insulation, drain, cables, circuit breakers, remote control, frames and accessories & testing/commissioning. ● 2 years warranty and Quarterly Maintenance against defects without additional cost and training on operations & maintenance. 	1	Lot	
	Split-type Air Conditioning Unit for IT Room <ul style="list-style-type: none"> ● 2.5 Horsepower ● Wall Mounted ● Split-type Inverter ● Includes: Installation and Labor Cost 	2	Units	
	Split-type Air Conditioning Unit for EE and Telco Room <ul style="list-style-type: none"> ● 1 Horsepower ● Wall Mounted ● Split-type Inverter ● Includes: Installation and Labor Cost 	2	Units	

	<u>Fire and Detection Alarm System (FDAS)</u> <ul style="list-style-type: none"> ● 4 zones Conventional fire alarm control panel ● 14 units Conventional Smoke Detector ● 2 units Conventional Manual Call Point ● 1 unit Conventional Audio/Visual alarm device ● 4 units 10 lbs. HFC-236fa Fire Extinguisher ● Installation and Cabling 	1	Lot	
	<u>Surveillance System</u> <ul style="list-style-type: none"> ● 6 units 2MP Camera, Outdoor Dome, Fix Lens, IR LED, True D/N ● 2 units 2MP Camera 21x zoom lens, Indoor PTZ ● 3 units 2MP Camera, Indoor Dome, Fix Lens, IR LED, True D/N ● 1 unit 16 channel Network Video Recorder, H.265 and H.264 codec, 2x 2 TB HDD ● 1 unit 27 inch LED Monitor ● Installation and Cabling 	1	Lot	
	<u>Door Access Control</u> <ul style="list-style-type: none"> ● High-performance, high-image quality Infrared Fingerprint Detection ● Standalone or third party access control panel ● TFT-LCD Color Screen ● Built-in TCP/IP ● Full Access Control Web Server Feature ● 3,000 fingerprint ● 30,000 cards ● USB Port ● Battery ● with RFID Module and Cards ● Access Control Interface ● With accessories ● Installation and Cabling 	4	Units	
Data Center IT Components				

	<p><u>Hyper Converged Infrastructure (HCI) Platform</u></p> <ul style="list-style-type: none"> ● HCI Software vendor must be a Leader in the Gartner Magic Quadrant for Hyperconverged Infrastructure Software 2021 or later ● Server Appliance must be a supported hardware platform and recognized by the HCI Software vendor ● 2U Rack Units (RU) Chassis with support up to 24 HDDS (SAS/SATA) ● Motherboard (recently released) with support to the required specifications herein and shall have Dual Port 1Gb On-Board LOM ● 1 CPU Configuration 2.6G, 28C/56T, 11.2GT/s, 42M Cache, Turbo, HT (235W) DDR4- 3200, equivalent or better ● 8x 32GB RDIMM, 3200MT/s, Dual Rank 16Gb BASE x8 ● All flash storage configuration ● Boot RAID Storage Controller Card (or equivalent device) w/ 2 M.2 480GB (RAID 1) ● 2x 800GB SSD SAS ISE, MU, up to 24Gbps 512e 2.5in Hot-Plug, AG Drive ● 8x 3.84TB SSD SATA Read Intensive 6Gbps 512 2.5in Hot-plug AG Drive, 1 DWPD ● Host Bus Adapter Controller for Front Form Factor with support up to 16 SAS lanes/drives ● 1x Quad Port 10GbE SFP+, OCP NIC 3.0 ● 2x Hot-Plug, Power Supply, 1100W MM (100-240Vac) Titanium, Redundant (1+1) ● Trusted Platform Module 2.0 V3 ● 6 pcs Very High-Performance Fan ● Hypervisor Software - 3 Years License ● Software-Defined Distributed Storage / Virtual Storage Area Network Solution - 3 Years Advanced License ● Centralized Hypervisor Management Software - 3 Years License 	3	Nodes	
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	<ul style="list-style-type: none"> ● HCI Management Software - 3 Years License ● Data Protection Software for VM - 3 Years License ● Out-of-Band Management (Enterprise License) ● w/ Sliding Rails and Cable Management Arm ● Includes deployment, Installation and Configuration ● 2 pcs Power Jumper Cord - C13/C14, 2M, 250V, 10A ● 3 Years Professional Support, and Warranty and shall include parts, same business day onsite diagnosis service, Software Support Maintenance, Mission Critical Support and Onsite Service 			
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	<p><u>Server Appliance for DNS Server</u></p> <ul style="list-style-type: none"> ● Same brand with HCI Server Appliance ● 1U Rack Units (RU) Chassis with up to 4 slots 3.5-inch or 8 slots 2.5-inch Hot Plug Hard Drives ● 1 CPU Configuration 3.4GHz, 8M Cache, 4C/8T, Turbo (65W), 3200 MT/s ● 16GB UDIMM, 3200MT/s, ECC ● 2 x 600GB Hard Drive SAS 12Gbps 10k 512n ● Front SAS Raid Controller Card 8GB Cache 12G ● On-Board Dual Port 1Gb LOM ● Standard Fans ● Out-of-Band Management ● DVD +/-RW, SATA, Internal for Hot Plug Chassis ● Dual Hot-Plug, Power Supply (1+1), 600W ● Windows Server 2022, Standard License ● 3 years Warranty with Professional Next-Business Day Support and shall include parts and services 	1	Unit	
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	<p><u>Server Operating System (OS) License (Retail)</u> Proprietary Server Operating System Version: Year 2022 Standard Edition Perpetual License</p> <p>Server roles:</p> <ul style="list-style-type: none"> ● Active Directory Certificate Services ● Active Directory Domain Services ● Active Directory Federation Services ● Active Directory Lightweight Directory Services ● Active Directory Rights Management Services ● Device Health Attestation ● DHCP Server ● DNS Server ● Fax Server ● File and Storage Services <ul style="list-style-type: none"> ○ File Server ○ BranchCache for Network Files ○ Data Deduplication ○ DFS Namespaces ○ DFS Replication ○ File Server Resource Manager ○ File Server VSS Agent Service ○ iSCSI Target Server ○ iSCSI Target Storage Provider ○ Server for NFS ○ Work Folders ○ Storage Services ● Host Guardian Service ● Hyper-V ● Network Policy and Access Services ● Print and Document Services ● Remote Access ● Remote Desktop Services ● Volume Activation Services ● Web Services (IIS) ● Windows Deployment Services 	4	Licenses	
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	<ul style="list-style-type: none"> ● Windows Server Update Services <p>Features:</p> <ul style="list-style-type: none"> ● Best Practices Analyzer ● Containers ● Direct Access ● Dynamic Memory (in virtualization) ● Hot Add/Replace RAM ● Microsoft Management Console ● Minimal Server Interface ● Network Load Balancing ● Windows PowerShell ● Server Core installation option ● Server Manager ● SMB Direct and SMB over RDMA ● SMB Compression ● Storage Migration Service ● Storage Replica <ul style="list-style-type: none"> ○ Yes, (1 partnership and 1 resource group with a single 2TB volume) ● Storage Spaces ● Volume Activation Services ● VSS (Volume Shadow Copy Service) integration ● Windows Server Update Services ● Server license logging ● Work Folders 			
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	<u>Database Management Software (DBMS)</u> Standard Edition Version 2022 Perpetual License Software Features: <ul style="list-style-type: none"> ● SQL Server Database Engine ● Analysis Services ● Reporting Services ● Integration Services ● Master Data Services ● Machine Learning Services (In-Database) ● Data Virtualization with PolyBase ● Azure connected services 	2	Licenses	
	<u>Server Endpoint Protection</u> 3 Years Subscription Licenses Features <ul style="list-style-type: none"> ● Secures cloud, on-premises and virtual server deployments ● Stop Unknown Threats with deep learning AI ● Blocks ransomware and rollback files to a safe state ● Prevents the exploit techniques used throughout the attack chain ● Performs threat hunting and IT ops security hygiene ● Understand and secure your wider cloud environment such as S3 buckets and databases ● Provides 24/7/365 security delivered as a fully managed service 	10	Licenses	
Network Infrastructure				

	<p><u>Next-Generation Firewall (For IT Room)</u></p> <p>Vendor must be a Leader in the Gartner's Magic Quadrant for Network Firewalls 2022 or later</p> <p>Hardware Specification</p> <ul style="list-style-type: none"> ● 2x GE RJ45 High Availability/Management Ports ● 16x GE RJ45 Ports ● 4x 10 GE SFP+ Slots ● 8x GE SFP Slots ● Onboard Storage 480 GB SSD ● Dual 1+1 Redundant Power Supply, 80 Plus Compliant <p>System Performance and Capacity</p> <ul style="list-style-type: none"> ● Firewall Throughput: 16.5 Mpps ● IPv4 Firewall: 27 Gbps ● IPS: 5 Gbps ● NGFW: 3.5 Gbps ● Threat Protection: 3 Gbps ● IPsec VPN: 13 Gbps ● Concurrent Sessions (TCP): 3 Million <p>Features</p> <ul style="list-style-type: none"> ● IPv4 and IPv6 ● Advanced Routing ● Quality-of-Service, Traffic Shaping and Load Balancing ● Secure VPN & SD-WAN ● Trusted Platform Module ● High-Availability Configurations: Active-Active- Active-Passive ● SNMP v1, v2c, 3 ● sFlow/Netflow Traffic Monitoring ● System and Security Event Logs ● Reports and Dashboard <p>1 Year Unified Threat Protection License including the following features:</p> <ul style="list-style-type: none"> ● Intrusion Prevention System ● TLS 1.3 deep inspection ● Anti-Malware and Antivirus Protection ● Mobile Malware Protection ● Botnet Protection ● Content Disarm & Reconstruction (CDR) ● Virus Outbreak Protection, ● Sandbox (behavior analysis) 	1	Unit	
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	<p>system)</p> <ul style="list-style-type: none"> ● URL, web content, Video and Secure DNS Filtering ● Anti-Spam ● Application Control ● Internet Service DB Updates ● GeoIP DB Updates ● Device/OS Detection Signatures ● Trusted Certificate DB Updates <p>1 Year Warranty with Hardware and Software Support and shall include parts and services</p>			
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	<p><u>Top-of-Rack Switch (For IT Room)</u></p> <ul style="list-style-type: none"> ● Must be compatible and the same brand with the HCI Server Appliance ● Purpose-built for Software-Defined Data Center, iSCSI and FC storage deployment, High Performance Computing Clusters, and HCI ● 1U Rack Units (RU) Chassis ● 28 x 10GbE SFP+, 2 x QSFP28 ● 2x Hot-Plug Power Supply, Redundant (1+1) ● Hot-swappable fans with hot/cold aisle airflow ● VXLAN layer 2/layer 3 gateway support ● Enterprise Edition License ● Power Jumper Cord - C13/C14, 2M, 250V, 10A x 2 ● 3 Years Professional Support, and Warranty and shall include parts, Software Support Maintenance, Mission Critical Support and Onsite Service 	2	Units	
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	<p><u>Enterprise Core Switches (For IT Room)</u></p> <p>Vendor must be a Leader in the Gartner's Magic Quadrant for Enterprise Wired and Wireless LAN Infrastructure 2022 or later</p> <p>General Specifications:</p> <ul style="list-style-type: none"> ● Form Factor: 1U Rack-mountable ● For Core Layer Deployment ● Layer 3 Manageable Switch ● Switching Capacity: 4 Tbps (bidirectional)/2 Bpps ● Ethernet Technology: 10, 25, 40 and 100 Gigabit Ethernet <p>Port / Expansion Slot Details:</p> <ul style="list-style-type: none"> ● Number of Total Expansion Slots:56 ● Expansion Slot Type: SFP+, SFP28, QSFP+, QSFP28 ● Media Type Supported: Optical Fiber ● 48 x 1/10/25 Gigabit Ethernet Expansion Slot (SFP/SFP+/SFP28 downlink ports) ● 8 x 40/100 Gigabit Ethernet Expansion Slot (QSFP+/QSFP28 uplink ports) ● 80 maximum link aggregation groups (LAGs) ● 64 maximum ports per LAG <p>Layer 2 Features</p> <ul style="list-style-type: none"> ● Switch Stacking ● VLAN—IEEE 802.1Q VLAN trunking ● Routed VLAN interface (RVI) ● Port-based VLAN ● Private VLAN (PVLAN) ● VLAN translation ● Static MAC address assignment for interface ● Per VLAN MAC learning ● VXLAN ● Link Aggregation and Link Aggregation Control Protocol (LACP) (IEEE 802.3ad) ● STP—IEEE 802.1D (802.1D-2004) ● Rapid Spanning Tree Protocol (RSTP) (IEEE 802.1w); MSTP (IEEE 802.1s) ● Bridge protocol data unit (BPDU) 	1	Unit	
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	<ul style="list-style-type: none"> ● protect ● Loop protect ● Root protect <p>Layer 3 Features (IPv4)</p> <ul style="list-style-type: none"> ● Static routing ● Routing protocols (RIP, OSPF, IS-IS, BGP) ● Virtual Router ● Virtual Router Redundancy Protocol (VRRP) ● Dynamic Host Configuration Protocol (DHCP) relay ● Proxy Address Resolution Protocol (ARP) <p>Other Features</p> <ul style="list-style-type: none"> ● IPv6 Support ● Standards Compliance IEEE Standard ● Multicast Features ● MPLS ● RADIUS Authentication and Accounting ● TACACS+ ● Quality of Service (QoS) ● High Availability ● SNMP V1, V2c, V3 ● sFlow Traffic Monitoring ● System Logs ● Redundant Power Supply and Fan <p>3 Years Warranty with Next Day Support and shall include parts and services</p>			
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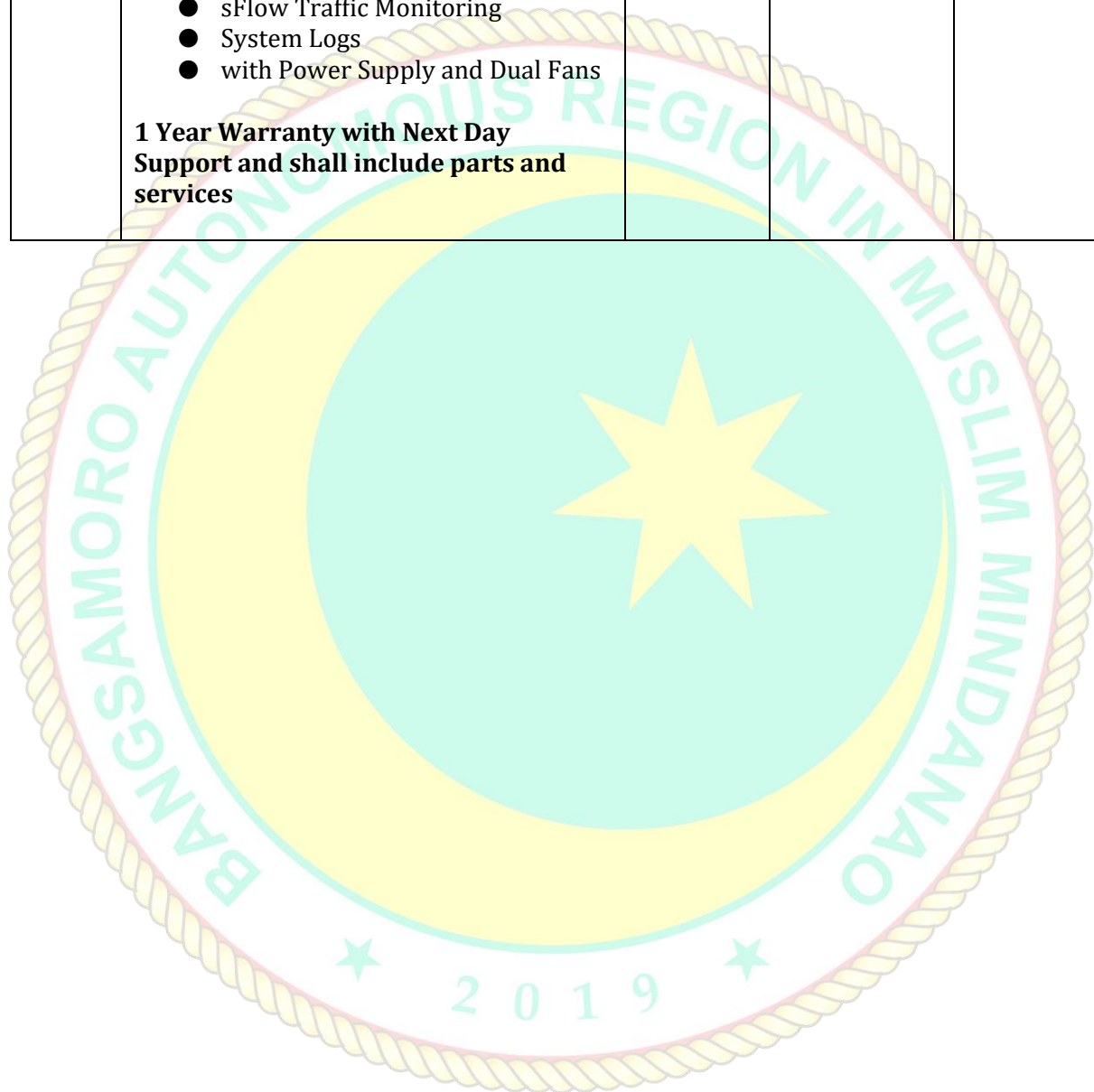
	<p><u>Enterprise Access Switches</u></p> <p>Vendor must be a Leader in the Gartner's Magic Quadrant for Enterprise Wired and Wireless LAN Infrastructure 2022 or later</p> <p>General Specifications:</p> <ul style="list-style-type: none"> ● Form Factor: 1U Rack-mountable ● For Access Layer Deployment ● Switching Capacity: 128 Gbps / 95 Mpps ● Ethernet Technology: 1 and 10 Gigabit Ethernet <p>Port / Expansion Slot Details:</p> <ul style="list-style-type: none"> ● Number of Total Expansion Slots: 4 ● Media Type Supported: Copper and Optical Fiber ● 24 x 1 Gigabit Ethernet Ports (downlink ports) ● 4 x 1/10 Gigabit Ethernet Expansion SFP/SFP+ (uplink ports) <p>Layer 2 Features</p> <ul style="list-style-type: none"> ● Switch Stacking ● VLAN—IEEE 802.1Q VLAN trunking ● Routed VLAN interface (RVI) ● Port-based VLAN ● Link Aggregation and Link Aggregation Control Protocol (LACP) (IEEE 802.3ad) ● STP—IEEE 802.1D (802.1D-2004) ● Rapid Spanning Tree Protocol (RSTP) (IEEE 802.1w); MSTP (IEEE 802.1s) <p>Layer 3 Features (IPv4)</p> <ul style="list-style-type: none"> ● Static routing ● Routing protocols (RIP, OSPF) ● Dynamic Host Configuration Protocol (DHCP) relay ● Proxy Address Resolution Protocol (ARP) <p>Other Features</p> <ul style="list-style-type: none"> ● IPv6 Support ● Standards Compliance IEEE Standard ● Multicast Features ● RADIUS Authentication and 	9	Units	
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	<ul style="list-style-type: none"> Accounting ● TACACS+ Authentication ● Quality of Service (QoS) ● High Availability ● SNMP V1, V2c, V3 ● sFlow Traffic Monitoring ● System Logs ● with Power Supply and Dual Fans <p>1 Year Warranty with Next Day Support and shall include parts and services</p>			
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	<p><u>Enterprise Access Switches (PoE)</u></p> <p>Vendor must be a Leader in the Gartner's Magic Quadrant for Enterprise Wired and Wireless LAN Infrastructure 2022 or later</p> <p>General Specifications:</p> <ul style="list-style-type: none"> ● Form Factor: 1U Rack-mountable ● For Access Layer Deployment ● Switching Capacity: 128 Gbps / 95 Mpps ● Ethernet Technology: 1 and 10 Gigabit Ethernet ● Power-over-Ethernet Ethernet Ports (802.3af Class 3 PoE and 802.3at PoE+ standards) ● 370W Total PoE Budget <p>Port / Expansion Slot Details:</p> <ul style="list-style-type: none"> ● Number of Total Expansion Slots: 4 ● Media Type Supported: Copper and Optical Fiber ● 24 x 1 Gigabit Ethernet Ports (downlink ports) ● 4 x 1/10 Gigabit Ethernet Expansion SFP/SFP+ (uplink ports) <p>Layer 2 Features</p> <ul style="list-style-type: none"> ● Switch Stacking ● VLAN—IEEE 802.1Q VLAN trunking ● Routed VLAN interface (RVI) ● Port-based VLAN ● Link Aggregation and Link Aggregation Control Protocol (LACP) (IEEE 802.3ad) ● STP—IEEE 802.1D (802.1D-2004) ● Rapid Spanning Tree Protocol (RSTP) (IEEE 802.1w); MSTP (IEEE 802.1s) <p>Layer 3 Features (IPv4)</p> <ul style="list-style-type: none"> ● Static routing ● Routing protocols (RIP, OSPF) ● Dynamic Host Configuration Protocol (DHCP) relay ● Proxy Address Resolution Protocol (ARP) <p>Other Features</p> <ul style="list-style-type: none"> ● IPv6 Support 	5	Units	
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	<ul style="list-style-type: none"> ● Standards Compliance IEEE Standard ● Multicast Features ● RADIUS Authentication and Accounting ● TACACS+ Authentication ● Quality of Service (QoS) ● High Availability ● SNMP V1, V2c, V3 ● sFlow Traffic Monitoring ● System Logs ● with Power Supply and Dual Fans <p>1 Year Warranty with Next Day Support and shall include parts and services</p>			
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	<p><u>Enterprise Wireless Access Points</u></p> <ul style="list-style-type: none"> ● Wireless standard: Wi-Fi 6 802.11AX ● Wi-Fi performance: Up to 3000 Mbps ● Frequencies: 2.4GHz & 5GHz ● Radio 1: 2.4GHz - 574 Mbps, two spatial streams, 2x2 MU-MIMO ● Radio 2: 5GHz - 2402 Mbps, two spatial streams, 2x2 MU-MIMO ● OFDMA, 1024-QAM ● Integrated omnidirectional antenna: 2.4GHz 2.8 dBi, 5GHz 3 dBi ● SSID: Up to 32 ● Allow Hidden SSID ● Security: WPA / WPA2 (AES) / WPA-PSK / WPA3 ● Monitoring: SNMP V1, V2c, V3 ● Interface: 1 Port RJ45: Gigabit Uplink PoE In, 1 port 2.5 Gigabit Uplink ● Concurrent Clients: Maximum Software: 512 ● Recommended: 120 ● Management: Standalone - Local Web/Centralized Cloud/Wireless Controller/Mobile App ● Band Steering ● Load balancing based on number of users or traffic ● Quality-of-Service/Bandwidth Control ● 802.1X ● Rogue AP Detection ● Isolation between Wi-Fi clients ● Power Input: PoE IEEE802.3af or IEEE802.3at / AC Adapter ● 1 Year Warranty and shall include parts and services 	6	Units	
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	<u>Network 12U Data Cabinets</u> <ul style="list-style-type: none"> ● Dual Section ● 12 Rack Units ● 60 kg static loading capacity ● 450+100mm deep ● Toughened glass front door with lock ● Lockable side door ● Top and Bottom Cable Entry ● Provision for Cooling Fan Installation ● Black ● Accessories <ul style="list-style-type: none"> ○ Smart Power Distribution Unit, 8 Ways, Rack-mounted ○ Locks and Keys ○ Cooling Fan 	1	Unit	
	<u>Network 9U Data Cabinets</u> <ul style="list-style-type: none"> ● Dual Section ● 9 Rack Units ● 60 kg static loading capacity ● 450+100mm deep ● Toughened glass front door with lock ● Lockable side door ● Top and Bottom Cable Entry ● Provision for Cooling Fan Installation ● Black ● Accessories <ul style="list-style-type: none"> ○ Smart Rack-mounted Power Distribution Unit, 8 Ways ○ Locks and Keys ○ Cooling Fan 	4	Units	
	<u>Rack UPS for Network Data Cabinets</u> <ul style="list-style-type: none"> ● Rack Mounted ● Online-UPS ● 1000VA ● 230V ● AVR ● Universal Sockets ● 1 year warranty and shall include parts and services 	5	Units	

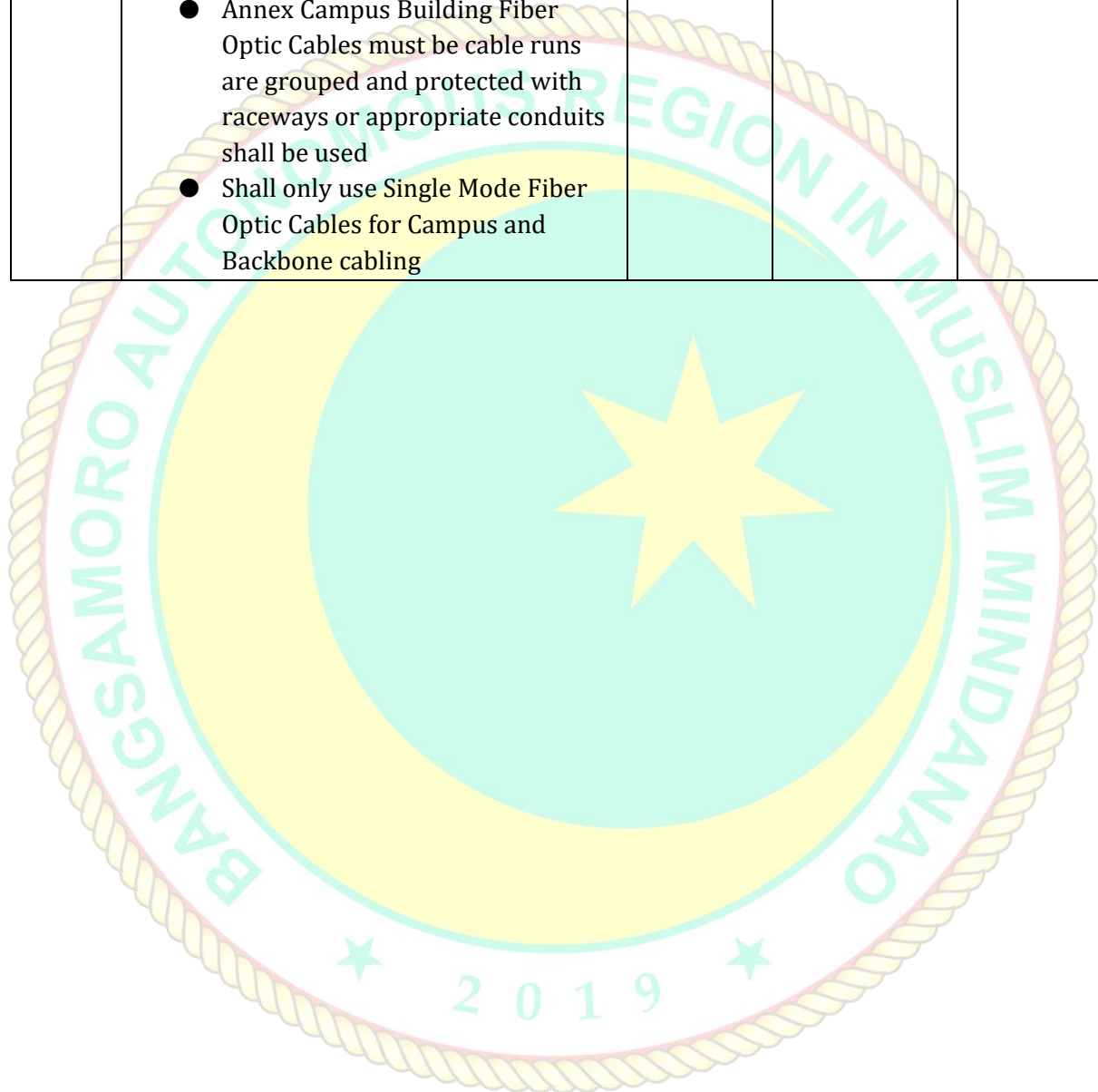
	<u>Network Transceiver Modules (Data Center - IT Room)</u> <ul style="list-style-type: none"> ● 12 units 10GbE SFP+ SR - for HCI Appliance Nodes (Servers) ● 2 units 100GbE QSFP28 Direct Attach Copper Cable - for Top of Rack Switches ● 16 units 10GbE SFP+ SR, - for Top of Rack Switches ● 1 unit 100GbE QSFP28 Direct Attach Copper Cable - for Core Switch ● 3 units 40GbE QSFP+ to 4 10GbE SFP+ Breakout Cables - for Core Switch ● 56 units 10GbE SFP+ LR, SMF 10 km, Duplex LC connector - for Core Switch 	1	Lot	
	<u>Network Transceiver Modules (Network)</u> <ul style="list-style-type: none"> ● 28 units SFP+, 10GbE LR, SMF 10 km, Duplex LC connector - for (New) Access Switch - Backbone Uplink ● 16 units SFP+, 10GbE Direct Attach Copper Cable - for (New) Access Switch - Switch Stacking ● 8 units SFP+, 10GbE LR, SMF 10 km, Duplex LC connector - for (New) Access Switch - Spare ● 24 units SFP, 1GBASE-LR Type 2, SMF 10 km, Duplex LC connector - for (existing) HPE/Aruba Access Switches 	1	Lot	
IP Telephone System				

	<u>IP Private Branch Exchange (PBX) Appliance</u> <ul style="list-style-type: none"> ● 50 extensions/users ● 25 max concurrent calls ● 4 units 2 FXO Port modules or equivalent ● with Operator Panel ● Features <ul style="list-style-type: none"> ○ Telephony Features ○ Business Features ○ Administration and Security ○ Unified Communications ○ Instant Messaging ○ Remote Access Service 	1	Unit	
	<u>IP Phone - Operator</u> <ul style="list-style-type: none"> ● 20 SIP Lines ● 3-way conference ● HD audio speakerphone and handset ● 4.3" color main display ● 106 DSS Keys ● H.264 video codec support for video calls ● WiFi and Bluetooth Support ● 2x Gigabyte ports, integrated PoE 	1	Unit	
	<u>IP Phone</u> <ul style="list-style-type: none"> ● 4 SIP lines ● 3-way conference ● HD audio speakerphone and handset ● 2.4" main color display ● 500 local phonebook ● caller ID, call hold, call transfer ● 1x 10/100 Ethernet Ports, integrated PoE ● EHS Wireless Headset 	36	Units	
Structured Cabling				

	<p><u>General Requirements and Conformance</u></p> <ul style="list-style-type: none"> ● Establish and install Five Hundred Sixty (560) structured cabling nodes for three (3) Office of the Chief Minister (OCM) buildings at the Bangsamoro Government Center, Rosary Heights VII, Cotabato City. ● Must propose structured cabling layout based on the existing floor plan provided during the site visit, proposed layout shall be for the approval of the end-user ● Shall implement the approved Structured Cabling Layout based on Industry-Standards Structured Cabling practices ● Must support the Uplink and Downlink Requirements ● Must provide all the equipment, materials, tools ancillaries or work necessary ● All Access Switch, ODF, patch panels ports, faceplates and patch cables must be properly labelled and/or tagged ● All cables must be properly terminated on both ends ● There shall be no hanging cables or exposed wirings ● Must ensure that all cables have quality signal attenuation and performance parameters ● shall conduct cable testing for Fiber Optic and Network Copper cables and must provide test report 	1	Lot	
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	<p><u>Campus Building and Backbone Cabling</u></p> <ul style="list-style-type: none"> ● Shall provide campus fiber optic cabling from the Data Center to: <ul style="list-style-type: none"> ○ Office of the Chief Minister - Main Building ○ Office of the Chief Minister - Annex Building ○ Shariff Kabunsuan Cultural Complex (SKCC) ● Each campus building shall have at least two (2) Fiber Optic Cable runs and shall take two (2) different path to ensure resiliency ● Must ensure that Campus Building FOCs have enough FOC cores for all switches and for redundancy ● At least 1 buried Fiber Optic Cable run is required for Annex and SKCC, the second cable run can be aerial or buried <ul style="list-style-type: none"> ○ Buried campus cables must be appropriate for buried installation and shall have good water, moisture and crush resistance, and have good mechanical and temperature performance. ○ Aerial campus cables must be appropriate for aerial installation and must have good tensile strength, weatherproofing, insulation, armoring and shall be rodent proof ○ The constructor shall facilitate all the requirements for the installation of aerial cables including the coordination, paper works and fees for one (1) year ● Shall link all Campus FOCs to Data Center's Optical Distribution Frame (ODF) 	1	Lot	
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	<ul style="list-style-type: none"> ● Main Building Fiber Optic Cables shall be terminated to its dedicated Optical Distribution Frame (ODF) for building-wide fiber distribution across IDFs with each cable runs are grouped and protected with raceways or appropriate conduits shall be used ● Annex Campus Building Fiber Optic Cables must be cable runs are grouped and protected with raceways or appropriate conduits shall be used ● Shall only use Single Mode Fiber Optic Cables for Campus and Backbone cabling 			
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	<p><u>Uplink and Downlink Requirements</u></p> <ul style="list-style-type: none"> ● Structured Cabling Design must support the following uplink requirements <ul style="list-style-type: none"> ○ At least 20 Gbps for 1 Core Switches to 1 Next-Generation Firewall ○ At least 20 Gbps for each Top-of-Rack Switch to 1 Core Switches ○ At least 20 Gbps for each Access Switch to 1 Core Switches, <ul style="list-style-type: none"> ■ for existing Access Switches, shall be limited to its SFP interface bandwidth but must be able support future requirements of 20 Gbps ○ At least 20 Gbps for each HCI Node to 2 Top-of-Rack Switches ○ At least 10 Gbps downlink capacity for each Network Node to Access Switches 	1	Lot	
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	<p><u>Network Nodes and Copper Cabling</u></p> <ul style="list-style-type: none"> ● Must be sequentially laid out and organized according to the floor plan layout and patch panel numbering ● Network Nodes must be compliant with Cat 6 standards ● Whenever possible, cabling must be buried, and must have appropriate conduits, mounting boxes, faceplates, Cat6 RJ45 keystone jacks and other materials necessary for the installation ● Must only use Pure Copper Cables, there shall be no Copper Clad Aluminum (CCA) cables shall be used ● Must support minimum link of 1 Gbps and must support up to 10 Gbps bandwidth for future upgrades 	1	Lot	
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	<p><u>Network Cabinets</u></p> <ul style="list-style-type: none"> ● Shall provide all necessary materials for the implementation of Structured Cabling including but not limited to: <ul style="list-style-type: none"> ○ Fiber Patch Panels, Cable Manager and Patch Cords ○ Category 6 Ethernet Patch Panel, Cable Managers, Modular Jacks, and Faceplates ○ Conduits, Pipes, and Raceways ○ Buriend and Aerial Backbone Cabling installation materials ○ Other Structured Cabling materials ● Each Network Cabinet must have at least two (2) Fiber Optic Cable runs and shall take two (2) different path to ensure resiliency ● Shall sequentially connect Network Switches to the Optical Distribution Frame and Modular Patch Panels ● Avoid Wire Clutter, efficient routing of wires and cables, use zip ties, velcro based ties and eyelets to organize and keep cable safe. shall have proper pathways where wires and connections can travel ● shall provision dedicated power outlets including all necessary materials and works to complete the item 	1	Lot	
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	<p><u>Fiber and Ethernet</u> <u>Patch Cables/Cords</u></p> <ul style="list-style-type: none"> ● Shall only use LC Type FOC cables for FOC patch cords ● Shall provide and install adequate number of patch cables for switches, optical distribution frame and patch panels ● All patch cables used shall be in suitable length ● Copper patch cables must be compliant with Cat 6 standards and must be factory crimped/terminated, suitable length, stranded wires and with boots ● Cables must be color coded based on the specification specified in ANSI/TIA-606-B Standard or as defined by the end-user ● Must provide adequate number of Cat6 Patch Cables for the total number of nodes with suitable length 	1	Lot	
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	<p><u>Cable Run, Pathway and Protection</u></p> <ul style="list-style-type: none"> ● Ensure that appropriately sized conduits, cable raceways and/or ladders are used when running the cables from one point to another ● All cable trays for horizontal home runs shall be sized accordingly based on the number of nodes per floor or room ● Fiber Optic and Copper cable runs shall employ appropriate devices and/or mechanisms to avoid cable stress, tight bends, staples, cable wrapped too tightly, and excessive tension ● Non-buried network cable runs must have cable protection such as raceway, conduits, wireway, tubing or jackets that are resistant from rodents and other pests. ● Non-buried conduits must have appropriate mount, support or hanger and shall be permanently mounted or anchored, and enclosed ● Data Cabinet cable opening must be properly enclosed/sealed to prevent pests from entering 	1	Lot	
	<p><u>Cable Management</u></p> <ul style="list-style-type: none"> ● Ensure the physical network cabling is highly maintainable; ● Cables must be documented and labeled with their destination at each and every termination point as per TIA/EIA-606-C (to ensure that both ends of the cable are labeled for identification and traceability); 	1	Lot	

	<p><u>ICT Infrastructure and Systems Design and Configuration</u></p> <p>The Supplier shall provide assistance in the finalization and on-site implementation of the design and configuration based on the end-user's requirements. They must also implement system and hardening configurations as prescribed by the vendor or developer. Before implementation, the final design and configuration plan shall be presented to the end-user for approval. The configuration shall include but not limited to the following requirements:</p> <p>Hyper Converged Infrastructure</p> <ol style="list-style-type: none"> 1. HCI Server Equipment 2. HCI Server Management System 3. HCI Virtual Storages and Networks 4. HCI High-availability 5. Hypervisor Software / Virtual Machines 6. Domain Controller <p>Firewall, Network and IP Telephone System</p> <ol style="list-style-type: none"> 1. Internet Connection, Load Balancing and Traffic Shaping 2. Security Policies 3. Intrusion Prevention and Detection System 4. Application Control and Web Filtering 5. Access Control Lists/Layer 3 Security 6. Network Segmentation and Virtual Networks 7. Remote Access/VPN 8. Port Security 9. Network Switch Stacking 	1	Lot	
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	<p>10. Link Aggregation, Redundancy and Failover</p> <p>11. SNMP or Network Monitoring</p> <p>12. Network/Wireless Controllers</p> <p>13. Wireless Local Area Network</p> <p>14. IP Telephony PBX and IP Phones</p> <p>The supplier shall utilize (whenever necessary) the existing network devices available in the design of the network infrastructure.</p> <ul style="list-style-type: none"> ● 14 units of 24-port + 4-SFP Gigabit Enterprise Access Switches (HPE/Aruba) ● 9 units of 24-port + 2-SFP Gigabit SMB Switches (Ubiquiti) ● 1 units of 28-port + 2-SFP Gigabit Small Business Switch (Cisco) ● 26 units of Dual-band Wireless Access Points (Ubiquiti) ● 2 units of Network and Security Gateways (w/ WLAN Controller) (Ubiquiti) ● 1 unit of Core Router (Mikrotik) ● 1 unit of Branch-Office Next-Generation Firewall (Palo Alto Networks) 			
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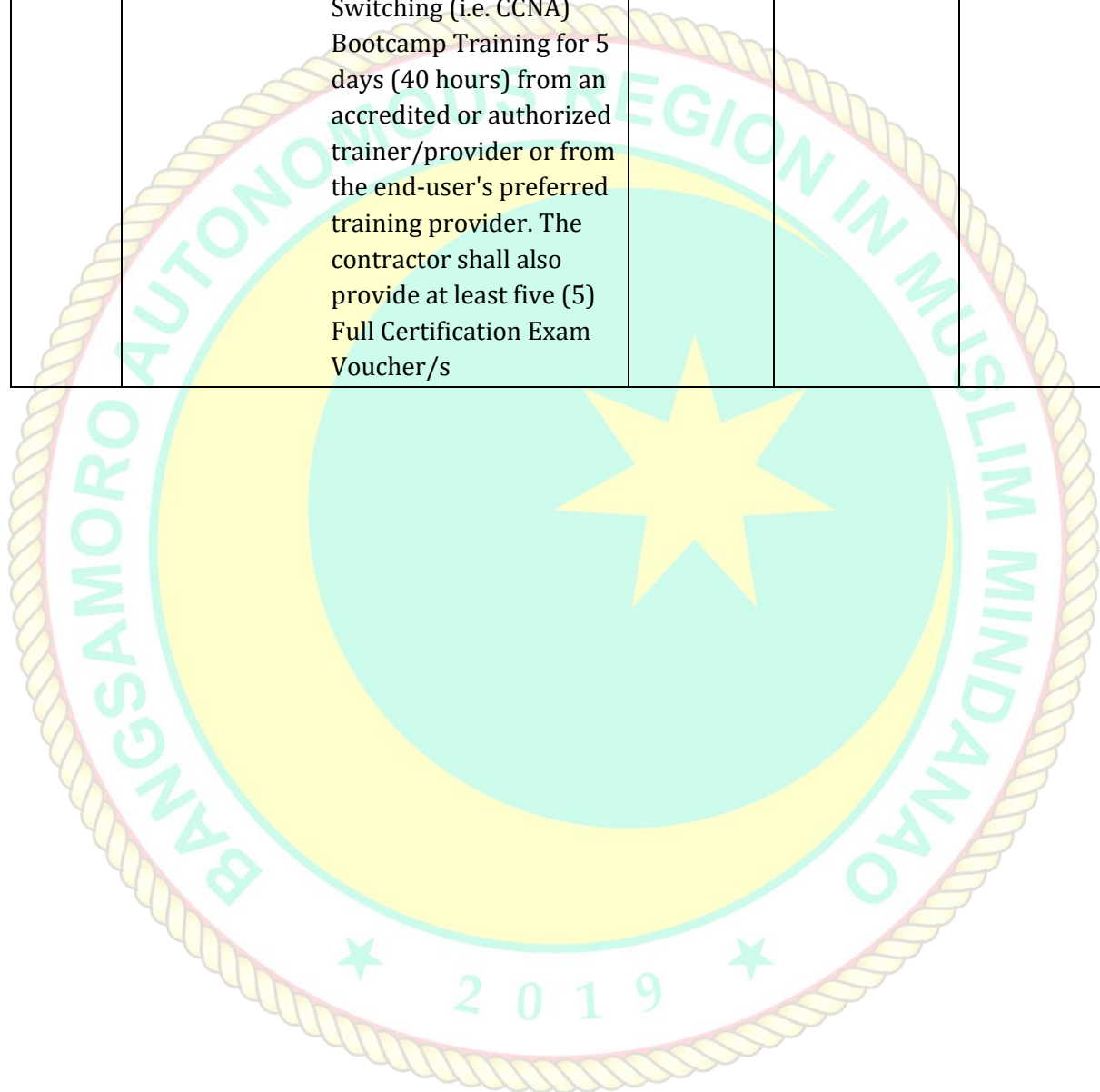
	<p><u>Project Documents</u></p> <p>The Supplier shall provide project's pertinent documents below in both hard and editable-soft copies. All documents must be in the English language.</p> <ol style="list-style-type: none"> 1 . Data Center Facility <ol style="list-style-type: none"> a . As-Built Plans b . Drawings c . Layouts 2 . Project Diagrams <ol style="list-style-type: none"> a. Data Center <ol style="list-style-type: none"> 1. Cabinet/Rack Diagrams 2. Physical Server Diagrams 3. Power Cabling Layout Diagrams 4. Environment Sensor Connection Diagram 5. FDAS Connection Diagram 6. Device Power Connection Diagrams 7. Device Data Connection Diagrams 8. Data Cabling Layout Diagram b. Network <ol style="list-style-type: none"> 1. Detailed Physical Network Diagram 2. Detailed Logical Network Diagram 3. Structured Cabling Floor Layout 4. Data Cabling Layout Diagram 5. IP Telephone System Device Data Connection Diagrams 3 . Data Center Preventive Maintenance Checklist Form 4 . Equipment Lists for Electrical and Power, Cooling, and Environment Monitoring Control, Fire and Detection 	1	Lot	
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	<p>Alarm Systems (FDAS), IT Room and Network Facility Components</p> <p>5. Equipment and Device Documents</p> <ul style="list-style-type: none"> a. User/Operations Manual b. Maintenance and Troubleshooting Guide/Manual c. Components or Parts list with part number d. Other Technical Manual 			
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	<p><u>Training, Technology and Knowledge Transfer</u></p> <p>A. The contractor shall conduct Technology and Knowledge Transfer after complete project delivery for the operation, maintenance and troubleshooting of all project components including but not limited to:</p> <ol style="list-style-type: none"> 1. Data Center Facility <ol style="list-style-type: none"> a. PACU b. UPS c. FDAS d. Access Control e. Electrical System 2. HCI Server Nodes <ol style="list-style-type: none"> a. Hardware b. HCI and Hypervisor Software c. Management Software 3. Network Infrastructure <ol style="list-style-type: none"> a. Structured Cabling b. Next-Generation Firewall c. Core Switch d. Access Switches e. Access Points 4. IP Telephone System <ol style="list-style-type: none"> a. IP PBX Appliance and Software b. IP Phones <p>B. The contractor shall provide certification training for the following:</p> <ol style="list-style-type: none"> 1. At least one (2) participant/user of on-demand (full 1-year online access) Complete Professional/2nd-Level Data Center Virtualization Exam Preparation Training Course (i.e. VCP-DCV 	1	Lot	
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	<p>2023) direct from the Software Company with Full Certification Exam Voucher</p> <p>2. At least five (5) participants of face-to-face Associate-Level Network Routing and Switching (i.e. CCNA) Bootcamp Training for 5 days (40 hours) from an accredited or authorized trainer/provider or from the end-user's preferred training provider. The contractor shall also provide at least five (5) Full Certification Exam Voucher/s</p>			
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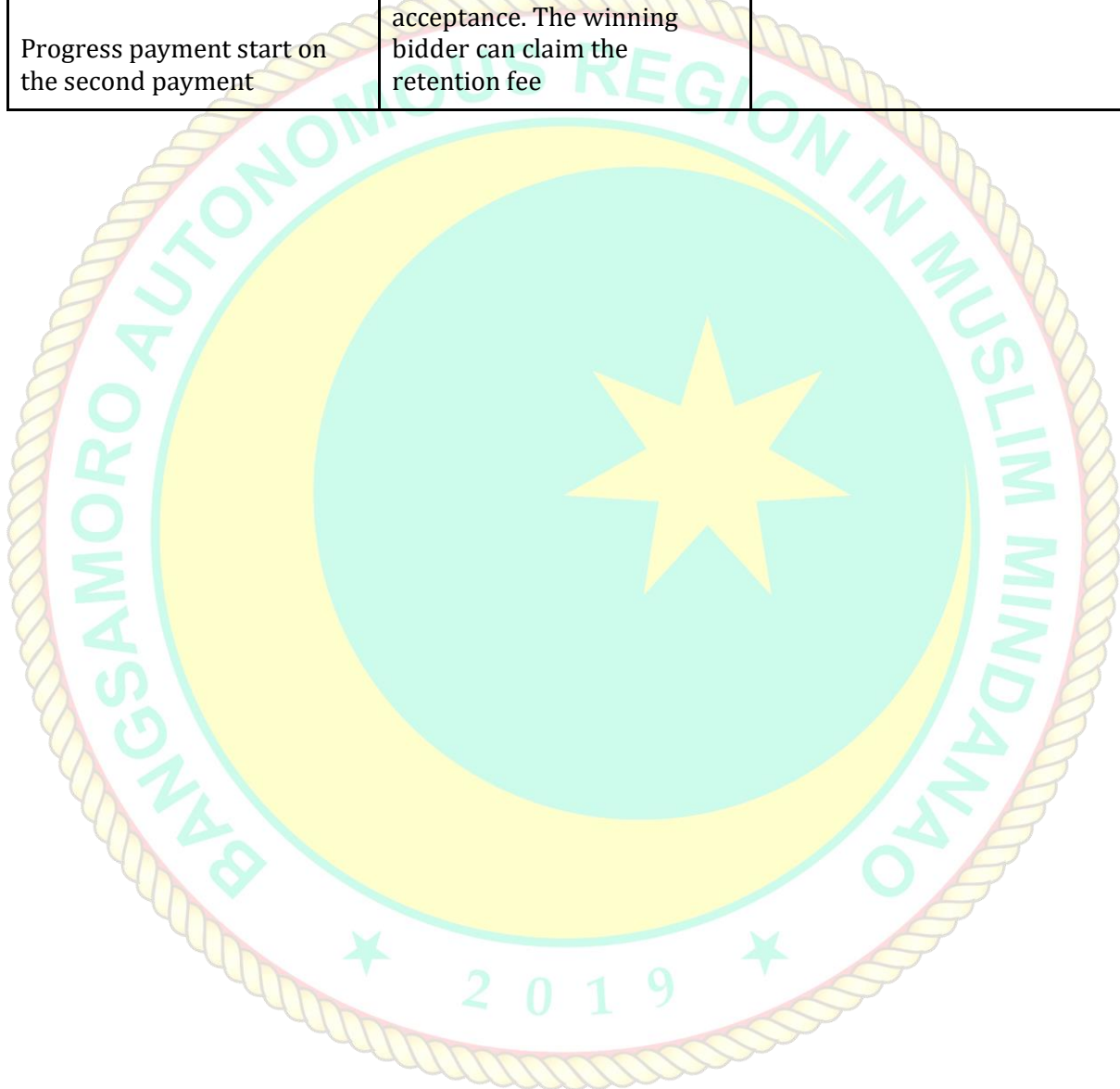


	<p><u>Warranty, Maintenance, and After-Sales Support Services</u></p> <ol style="list-style-type: none"> 1. Shall provide One (1) year warranty for Structured cabling including Campus Building FOC, In-Building FOC, and Network Cabling, ODF, and Structured Cabling related components. 2. Shall provide One (1) Year warranty for FDAS, and Electrical System 3. Shall provide One (1) year warranty for: <ul style="list-style-type: none"> o Next-Generation Firewall o Access Switches o Transceivers o Wireless Access Points. o IP Telephone System.. o Rack UPS for Network Data Cabinets. 4. Shall provide Three (3) years warranty for the following: <ul style="list-style-type: none"> o HCI Server Nodes, o Top of Rack Switch, o Core Switch, 5. Shall provide warranty and quarterly maintenance visit for the PACU and UPS for (2) years 6. Warranty services shall include troubleshooting, replacement, repair, parts and other services necessary with no additional costs to the office/end-user 7. Shall provide After-Sales and Technical Support Services available at least eight (8) hours a day, five (5) days a week, Monday to Friday (8:00 AM to 5:00 PM), accessible through landline, mobile, chat/IM and email (excluding holidays) 	1	Lot	

IX. Terms of Payment

Percentage	Winning Bidder Requirement	Prerequisites
20% of Total Contract Price	Submission of the Detailed Implementation Plan (within 7 calendar days upon receipt of NTP)	Submission of Detailed Design and Implementation Plan from the winning bidder and Acceptance Certificate issued by the Procuring Entity
20% of Total Contract Price	Completion of Data Center Facility Construction including Installation, Configuration and Commissioning of PACU and UPS	Documentation report related to the Data Center Construction from winning bidder and Acceptance Certificate issued by the Procuring Entity
15% of Total Contract Price	Completion of Structured Cabling and Testing	Documentation Report related to the Structured Cabling with testing report indicating that all tests passed the testing criteria and Acceptance Certificate issued by the Procuring Entity
15% of Total Contract Price	Delivery of Active Components by 50%	Checklist of delivered tangible components (equivalent or more than 50% delivered) and acceptance certificate issued by the Procuring Entity
15% of Total Contract Price	Delivery of Active Components by 100%	Checklist of delivered tangible components (100% delivered) and acceptance certificate issued by the Procuring Entity
12% of Total Contract Price	<p>Complete Installation, and Configuration of HCI Server Nodes, Firewall, TOR Switch and Core Switch, Access Switches, Wireless Access Points and IP Telephony including turn over of licenses</p> <p>Complete delivery of Technology and Knowledge Transfer and Training</p>	<p>Documentation Report related to:</p> <ul style="list-style-type: none"> ● Complete installation and configuration of all required items, ● Submitted all Project Documents required by the end-user, ● Completion of Technology, Knowledge Transfer and Training,

	Dry Run and Failover Testing Activity	<ul style="list-style-type: none"> ● Completion Dry Run and Failover Testing Activity; and Acceptance Certificate issued by the Procuring Entity
3% Retention fee of every progress payment. Progress payment start on the second payment	After 1 year from the issuance of certificate of final acceptance. The winning bidder can claim the retention fee	



X. Timelines/Schedule of Deliveries

Requirement	Phase	Timeline	Dependencies
Data Center Facility	Phase 1	150-180 calendar days	None
● Building design and construction	Phase 1	150-180 calendar days	None
● Electrical works and provisioning	Phase 1	150-180 calendar days	Data Center Facility Construction
● IT Room Rack Cabinet, racking and cabling systems	Phase 1	150-180 calendar days	All of the above
● Uninterruptible Power Supply	Phase 1	150-180 calendar days	All of the above
● Precision and Comfort Air Conditioning Unit (PACU/ACU)	Phase 1	150-180 calendar days	Data Center Facility and Electrical Works and Provisioning
● Environmental Monitoring, FDAS, Surveillance System and Door Access Control	Phase 1	150-180 calendar days	Data Center Facility and Electrical Works and Provisioning
Structured Cabling	Phase 1	240 calendar days	None
Hyper-Converged Infrastructure Hardware Software and Top-of-Rack Switches	Phase 2	180 calendar days	All of the above
Network (Core, Access Switches, Access Points and Remote Access)	Phase 2	120 calendar days	Structured Cabling
Security (Next-Generation Firewall)	Phase 2	120 calendar days	Network
IP Telephone System	Phase 2	15-30 calendar days	Network
Migration from old ICT Infrastructure to new ICT Infrastructure	Phase 3	15-30 calendar days	Data Center Facility & Network
Certification Training	Phase 3	5-15 calendar days	None
Technology, and Knowledge Transfer	Phase 3	15-30 calendar	All of the above
Implementation, Configuration, Testing,	Phase 3	30-60 calendar	Phase 1 & 2

Commissioning and Turn-over		days	
A target completion of 365 calendar days			

I hereby certify that the statement of compliance to the foregoing technical specifications are true and correct, otherwise, if found to be false either during bid evaluation or post qualification, the same shall give rise to automatic disqualification of our bid.

Name of Company/Bidder

Signature over Printed Name
Authorized Representative

Date



Section VIII. Checklist of Technical and Financial Documents

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class "A" Documents

Legal Documents

- ☐ (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages) **in accordance with Section 8.5.2 of the IRR;**

Technical Documents

- ☐ (b) 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 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

- ☐ (k) 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

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



Section IX. Bidding Forms

BID FORM

Date _____ :

Project Identification No. : _____

To: *Office of the Chief Minister
Bangsamoro Government Center, Cotabato City*

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 Amount and Purpose of
of agent Currency 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: _____



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: *Office of the Chief Minister
Bangsamoro Government Center, Cotabato City*

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]*

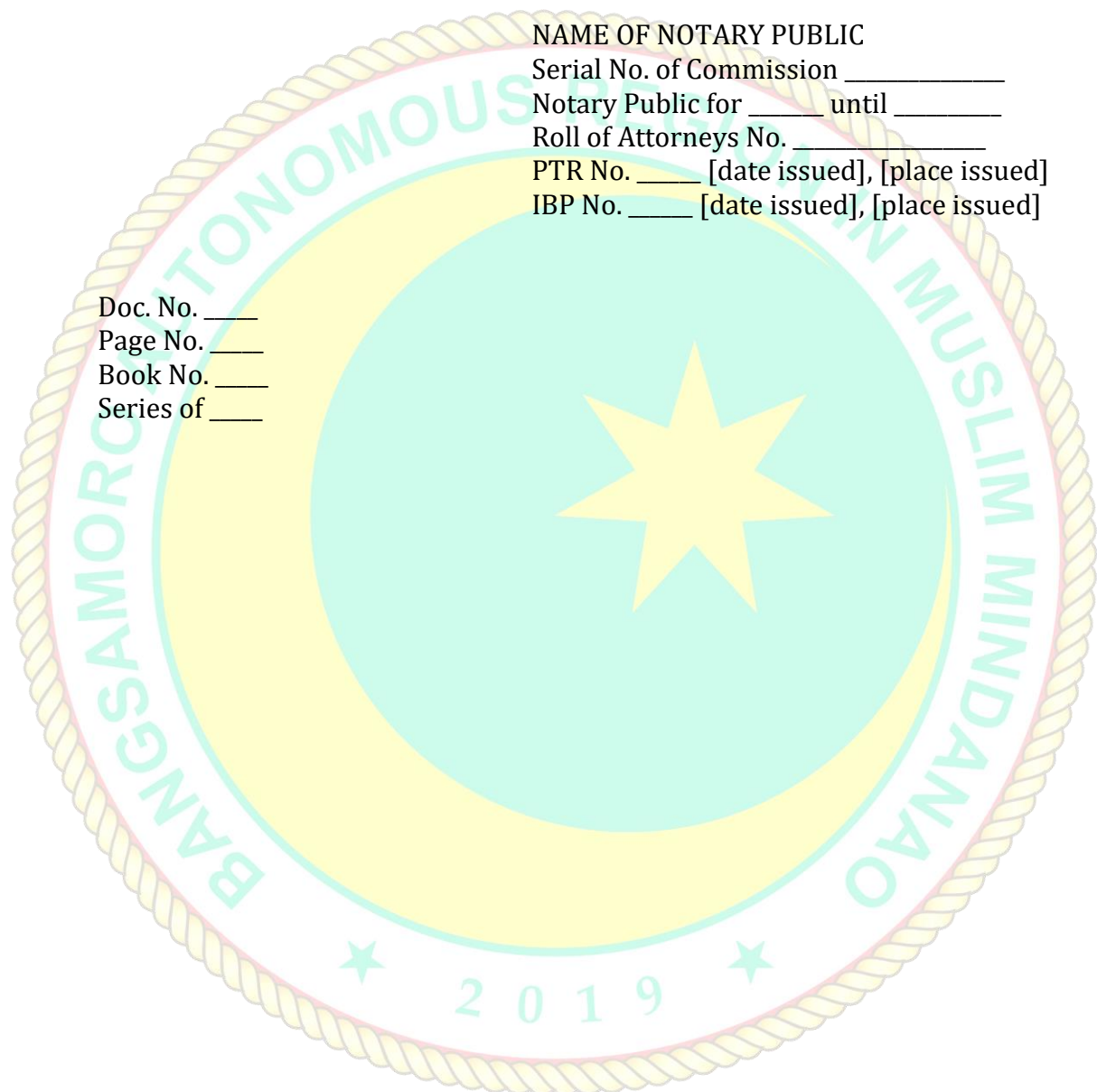
[Insert signatory's legal capacity]

Affiant

SUBSCRIBED AND SWORN to before me this ____ day of *[month]* *[year]* at *[place of execution]*, Philippines. Affiant/s is/are personally known to me and was/were identified by me through competent evidence of identity as defined in the 2004 Rules on Notarial

Practice (A.M. No. 02-8-13-SC). Affiant/s exhibited to me his/her [insert type of government identification card used], with his/her photograph and signature appearing thereon, with no. _____ and his/her Community Tax Certificate No. _____ issued on ____ at _____.

Witness my hand and seal this ____ day of [month] [year].



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 Office of the Chief Minister, 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 Office of the Chief Minister, 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

SUBSCRIBED AND SWORN to before me this __ day of [month] [year] at [place of execution], Philippines. Affiant/s is/are personally known to me and was/were identified by me through competent evidence of identity as defined in the 2004 Rules on Notarial Practice (A.M. No. 02-8-13-SC). Affiant/s exhibited to me his/her [insert type of government identification card used], with his/her photograph and signature appearing thereon, with no. _____ and his/her Community Tax Certificate No. _____ issued on ____ at _____.

Witness my hand and seal this __ day of [month] [year].

NAME OF NOTARY PUBLIC

Serial No. of Commission _____

Notary Public for _____ until _____

Roll of Attorneys No. _____

PTR No. _____ [date issued], [place issued]

IBP No. _____ [date issued], [place issued]

Doc. No. _____

Page No. _____

Book No. _____

Series of _____

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: _____

Statement of Single Largest Completed Contract Similar to the Contract to be bid

Name/Title of the Single Contract:

Parties to the Contract:

a. _____; and

b. _____

Amount of the Contract: _____ (inclusive of all applicable taxes and other charges/VAT exclusive)

Date of Completion: _____

Contract Period/Duration: _____

Description of Similar Contract: (description should show similarity with the requirement) _____

Supporting Documents attached showing the above information. Please put a check (√) mark on the document submitted:

- ☐ Contract
- ☐ Job Order
- ☐ Purchase Order
- ☐ Notice of Award
- ☐ Notice to Proceed
- ☐ Sales Invoice
- ☐ Official Receipt
- ☐ Certificate of Completion
- ☐ Certificate of Acceptance
- ☐ Certificate of Satisfactory Performance, *if available*
- ☐ Statement of Account showing payment
- ☐ Delivery Receipt
- ☐ Others: _____

For purpose of validating the similar contract, the bidder shall provide the following:

a. **Name of Contact Person:** _____

b. **Active/Working Telephone (landline/mobile number/s) and Fax number/s:**

c. **Active/Working E-mail address/es:** _____

Submitted by:

NAME OF THE BIDDER OR ITS AUTHORIZED REPRESENTATIVE AND ITS SIGNATURE

Designation



STATEMENT OF ALL ONGOING GOVERNMENT AND PRIVATE CONTRACTS

Name of the Company: _____

Address: _____

STATEMENT OF ALL ONGOING GOVERNMENT AND PRIVATE CONTRACTS, INCLUDING AWARDED BUT NOT YET STARTED

Name of Contract	a. Name of the Procuring Entity; b. Contact Person; c. Address; d. Contact Nos:	a. Contract References (PO/Contract); b. Contract Date c. Contract Duration	a. Estimated Completion or Delivery	Contract Amount	% of Accomplishment		Value of Outstanding Works/Undelivered Portion
					Planned	Actual	
GOVERNMENT							
PRIVATE							
					Total Cost		

This statement shall be supported by:

1. Notice of Award;
2. Contract, if applicable; and
3. Notice to Proceed, if applicable.

Submitted by:

NAME OF THE BIDDER OR ITS AUTHORIZED REPRESENTATIVE AND ITS SIGNATURE

Designation

