

PHILIPPINE BIDDING DOCUMENTS

UPGRADING OF TELECOMMUNICATIONS FACILITIES – DESIGN AND BUILD OF THREE STOREY CEZA DATA CENTER BUILDING (CEZA_CW-10-02-2023)

Government of the Republic of the Philippines

CAGAYAN ECONOMIC ZONE AUTHORITY

**Sixth Edition
July 2020**

Preface

These Philippine Bidding Documents (PBDs) for the procurement of Infrastructure Projects (hereinafter referred to also as the “Works”) through Competitive Bidding have been prepared by the Government of the Philippines for use by all branches, agencies, departments, bureaus, offices, or instrumentalities of the government, including government-owned and/or -controlled corporations, government financial institutions, state universities and colleges, local government units, and autonomous regional government. 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 (IRR) of Republic Act (RA) No. 9184.

The PBDs are intended as a model for admeasurements (unit prices or unit rates in a bill of quantities) types of contract, which are the most common in Works contracting.

The Bidding Documents shall clearly and adequately define, among others: (i) the objectives, scope, and expected outputs and/or results of the proposed contract; (ii) the eligibility requirements of Bidders; (iii) the expected contract duration; 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 Works 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 Infrastructure Projects. However, they should be adapted as necessary to the circumstances of the particular 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, BDS, General Conditions of Contract, Special Conditions of Contract, Specifications, Drawings, and Bill of Quantities 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 names of the Project, Contract, and Procuring Entity, in addition to 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 Terms, Abbreviations, and Acronyms

ABC – Approved Budget for the Contract.

ARCC – Allowable Range of Contract Cost.

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.

CDA – Cooperative Development Authority.

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])

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.

Contractor – is a natural or juridical entity whose proposal was accepted by the Procuring Entity and to whom the Contract to execute the Work was awarded. Contractor as used in these Bidding Documents may likewise refer to a supplier, distributor, manufacturer, or consultant.

CPI – Consumer Price Index.

DOLE – Department of Labor and Employment.

DTI – Department of Trade and Industry.

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]).

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.

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.

PCAB – Philippine Contractors Accreditation Board.

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.

UN – United Nations.

Section I. Invitation to Bid

Notes on the Invitation to Bid

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

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

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

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

UPGRADING OF TELECOMMUNICATIONS FACILITIES – DESIGN AND BUILD OF THREE STOREY CEZA DATA CENTER BUILDING (CEZA_CW_10-02-2023)

1. The Cagayan Economic Zone Authority (CEZA), through the General Appropriations Act (GAA) of 2023 intends to apply the sum of **Ninety-Six Million Three Hundred Two Thousand Three Hundred Sixty-Three Pesos and Seventy Centavos (₱96,302,363.70)** being the Approved Budget for the Contract (ABC) to payments under the contract for **Upgrading of Telecommunications Facilities – Design and Build of Three Storey CEZA Data Center Building (CEZA_CW_10-02-2023)**. Bids received in excess of the ABC shall be automatically rejected at bid opening.
2. The **CEZA Bids and Awards Committee (CEZA BAC)** now invites bids for the above Procurement Project. Completion of the Works is required **Three Hundred Sixty-Five (365) calendar days after the receipt of the Notice to Proceed (NTP)**. Bidders should have completed 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 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 (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. Interested bidders may obtain further information from **CEZA BAC Secretariat** and inspect the Bidding Documents at the address given below from **8:00AM-5:00PM**.
5. A complete set of Bidding Documents may be acquired by interested bidders on **October 31, 2023** from given address and website/s below and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of **Fifty Thousand Pesos Only (Ph₱50,000.00)**. The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person, by facsimile, or through electronic means.
6. The **CEZA BAC** will hold a Pre-Bid Conference on **November 8, 2023, 2:00 PM** at **BAC Conference Room, 10F Greenfield Tower, Mayflower and Williams Streets, Highway Hills, Mandaluyong City, Metro Manila** and through

videoconferencing/webcasting via Zoom (link will be available before the Pre-Bid Conference at <https://www.ceza.gov.ph>), which shall be open to prospective bidders.

7. Bids must be duly received by the BAC Secretariat through manual submission at the office address indicated below, on or before **5:00 PM of November 21, 2023**. Late bids shall not be accepted.
8. All bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB Clause 16**.
9. Bid opening shall be on **November 22, 2023 at 2:00 PM** in the given address below and **through video conference via Zoom (link will be available before the Bid Evaluation Conference at <https://www.ceza.gov.ph>)**. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.
10. The **CEZA BAC** 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 Implementing Rules and Regulations (IRR) of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.
11. For further information, please refer to:

The BAC Secretariat

CEZA Mandaluyong Office

10th Floor, Greenfield Tower, Mayflower St. and William Sts.,

Greenfield District, Brgy. Highway Hills, Mandaluyong City

Tel Nos. (+632) 8291-6704 to 08 Loc. 341 or 491

bacsecretariat@ceza.gov.ph

12. You may visit the following websites:

<https://www.philgeps.gov.ph>; and

<https://ceza.gov.ph/bids-and-awards>

October 27, 2023

(Sgd.) PERLA C. TUMALIUAN
BAC Chairperson

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, **Cagayan Economic Zone Authority (CEZA)** invites Bids for the **Upgrading of Telecommunications Facilities – Design and Build of Three Storey CEZA Data Center Building** with Project Identification Number **CEZA_CW_10-02-2023**.

[Note: The Project Identification Number is assigned by the Procuring Entity based on its own coding scheme and is not the same as the PhilGEPS reference number, which is generated after the posting of the bid opportunity on the PhilGEPS website.]

The Procurement Project (referred to herein as “Project”) is for the construction of Works, as described in Section VI (Specifications).

2. Funding Information

2.1. The GOP through the source of funding as indicated below for **General Appropriations Act (GAA) of 2023** in the amount of **Ninety-Six Million Three Hundred Two Thousand Three Hundred Sixty-Three Pesos and Seventy Centavos (₱96,302,363.70)**.

2.2. The source of funding is:

NGA, the General Appropriations Act or Special Appropriations.

3. Bidding Requirements

The Bidding for the Project shall be governed by all the provisions of RA No. 9184 and its 2016 revised IRR, including its Generic Procurement Manual 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 invitation to bid 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 inspected the site, determined the general characteristics of the contracted Works and the conditions for this Project, such as the location and the nature of the work; (b) climatic conditions; (c) transportation facilities; (c) nature and condition of the terrain, geological conditions at the site communication facilities, requirements, location and availability of construction aggregates and other materials, labor, water, electric power and access roads; and (d) 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, Coercive, and Obstructive Practices

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

5. Eligible Bidders

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

5.2. The Bidder must have experience of having completed a Single Largest Completed Contract (SLCC) that is similar to this Project, equivalent to at least fifty percent (50%) of the ABC adjusted, if necessary, by the Bidder to current prices using the PSA’s CPI, except under conditions provided for in Section 23.4.2.4 of the 2016 revised IRR of RA No. 9184.

A contract is considered to be “similar” to the contract to be bid if it has the major categories of work stated in the **BDS**.

5.3. For Foreign-funded Procurement, the Procuring Entity and the foreign government/foreign or international financing institution may agree on another track record requirement, as specified in the Bidding Document prepared for this purpose.

5.4. The Bidders shall comply with the eligibility criteria under Section 23.4.2 of the 2016 IRR of RA No. 9184.

6. Origin of Associated 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.

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 fifty percent (50%) of the Project.

The Procuring Entity has prescribed that:

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 **10F Greenfield Tower, Mayflower and Williams Streets, Highway Hills, Mandaluyong City, metro Manila and**

through videoconferencing/webcasting via Zoom (link will be available before the Pre-Bid Conference at <https://www.ceza.gov.ph>) 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 IX. Checklist of Technical and Financial Documents**.
- 10.2. 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. 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.
- 10.3. A valid special PCAB License in case of Joint Ventures, and registration for the type and cost of the contract for this Project. Any additional type of Contractor license or permit shall be indicated in the **BDS**.
- 10.4. A List of Contractor's key personnel (e.g., Project Manager, Project Engineers, Materials Engineers, and Foremen) assigned to the contract to be bid, with their complete qualification and experience data shall be provided. These key personnel must meet the required minimum years of experience set in the **BDS**.
- 10.5. A List of Contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership, certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be, must meet the minimum requirements for the contract set in the **BDS**.

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 IX. Checklist of Technical and Financial Documents**.

- 11.2. Any bid exceeding the ABC indicated in paragraph 1 of the **IB** shall not be accepted.
- 11.3. For Foreign-funded procurement, a ceiling may be applied to bid prices provided the conditions are met under Section 31.2 of the 2016 revised IRR of RA No. 9184.

12. Alternative Bids

Bidders shall submit offers that comply with the requirements of the Bidding Documents, including the basic technical design as indicated in the drawings and specifications. Unless there is a value engineering clause in the **BDS**, alternative Bids shall not be accepted.

13. Bid Prices

All bid prices for the given scope of work in the Project as awarded shall be considered as fixed prices, and therefore not subject to price escalation during contract implementation, except under extraordinary circumstances as determined by the NEDA and approved by the GPPB pursuant to the revised Guidelines for Contract Price Escalation guidelines.

14. Bid and Payment Currencies

- 14.1. 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.
- 14.2. Payment of the contract price shall be made in: **Philippine Pesos**.

15. Bid Security

- 15.1. The Bidder shall submit a Bid Securing Declaration or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the schedule in the **BDS**.
- 15.2. The Bid and bid security shall be valid until **March 21, 2023**. Any bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

16. Sealing and Marking of Bids

Each Bidder shall submit one (1) original and two (2) copies of the first and second components of its Bid.

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

If the Procuring Entity allows the submission of bids through online submission to the given website 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.

17. Deadline for Submission of Bids

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

18. Opening and Preliminary Examination of Bids

18.1. 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.

18.2. The preliminary examination of Bids shall be governed by Section 30 of the 2016 revised IRR of RA No. 9184.

19. Detailed Evaluation and Comparison of Bids

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

19.2. If the Project allows partial bids, all Bids and combinations of Bids as indicated in the **BDS** shall be received by the same deadline and opened and evaluated simultaneously so as to determine the Bid or combination of Bids offering the lowest calculated cost to the Procuring Entity. Bid Security as required by **ITB** Clause 15 shall be submitted for each contract (lot) separately.

19.3. In all cases, the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184 must be sufficient for the total of the ABCs for all the lots participated in by the prospective Bidder.

20. Post Qualification

Within a non-extendible period of five (5) calendar days from receipt by the Bidder of the notice from the BAC that it submitted the Lowest Calculated Bid, the Bidder shall

submit its latest income and business tax returns filed and paid through the BIR Electronic Filing and Payment System (eFPS), and other appropriate licenses and permits required by law and stated in the **BDS**.

21. Signing of the Contract

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 (BDS)

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

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

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

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

Bid Data Sheet

ITB Clause																														
5.2	For this purpose, contracts similar to the Project refer to contracts which have the same major categories of work, which shall be: <p style="margin-left: 40px;">a. The contractor must have constructed a previous data center that has a size not less than fifty percent (50%) of the size and extent of the project required by CEZA</p>																													
7.1	Sub-contracting is not allowed																													
10.3	Philippine Contractors Accreditation Board (PCAB) License Category B, Size Range Medium A for General Building - GB-1 Building and Industrial plant, with SP-CF (Communication Facilities) and SP-EM (Electro-Mechanical Work)																													
10.4	The key personnel must meet the required minimum years of experience set below: <table border="1" style="width: 100%; margin-top: 10px;"> <thead> <tr> <th colspan="3" style="text-align: center;">I. Professionals for the Stage I –Design of Data Center:</th> </tr> <tr> <th style="text-align: center;">Key Positions</th> <th style="text-align: center;">Minimum Years of experience in such position</th> <th style="text-align: center;">License/Certification Required</th> </tr> </thead> <tbody> <tr> <td>Principal Architect/ Designer</td> <td style="text-align: center;">Seven (7) years</td> <td>PRC and UAP (United Architects of the Philippines)</td> </tr> <tr> <td>Project Manager/ Coordinator</td> <td style="text-align: center;">Seven (7) years</td> <td>PRC and UAP (United Architects of the Philippines)</td> </tr> <tr> <td>Licensed Civil Engineer</td> <td style="text-align: center;">Seven (7) years</td> <td>PRC and PICE (Philippine Institute of Civil Engineers)</td> </tr> <tr> <td>Professional Electrical Engineer</td> <td style="text-align: center;">Seven (7) years</td> <td>PRC and IIEE (Institute of Integrated Electrical Engineers)</td> </tr> <tr> <td>Professional Electronics Engineer/ Electronics Engineer</td> <td style="text-align: center;">Seven (7) years</td> <td>PRC and IECEP (Institute of Electronics Engineers of the Philippines)</td> </tr> <tr> <td>Professional Mechanical Engineer</td> <td style="text-align: center;">Seven (7) years</td> <td>PRC and PSME (Philippine Society of Mechanical Engineers)</td> </tr> <tr> <td>Licensed Sanitary Engineer</td> <td style="text-align: center;">Seven (7) years</td> <td>PRC and PSSE (Philippine Society of Sanitary Engineers)</td> </tr> </tbody> </table>			I. Professionals for the Stage I –Design of Data Center:			Key Positions	Minimum Years of experience in such position	License/Certification Required	Principal Architect/ Designer	Seven (7) years	PRC and UAP (United Architects of the Philippines)	Project Manager/ Coordinator	Seven (7) years	PRC and UAP (United Architects of the Philippines)	Licensed Civil Engineer	Seven (7) years	PRC and PICE (Philippine Institute of Civil Engineers)	Professional Electrical Engineer	Seven (7) years	PRC and IIEE (Institute of Integrated Electrical Engineers)	Professional Electronics Engineer/ Electronics Engineer	Seven (7) years	PRC and IECEP (Institute of Electronics Engineers of the Philippines)	Professional Mechanical Engineer	Seven (7) years	PRC and PSME (Philippine Society of Mechanical Engineers)	Licensed Sanitary Engineer	Seven (7) years	PRC and PSSE (Philippine Society of Sanitary Engineers)
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Network Engineer	Five (5) years	CCNA/CCNP or JNCDA/JNCDS (Cisco Certified Network Associate/Professional or Juniper Networks Certification Design Associate/ Data Center Design, Specialist
CAD Draftsman	Proficient in CAD operation (AutoCAD release 2010 or later and Sketchup 2012) to support the production of design plans/drawings and other needed documents.	Training Certificate

II. Manpower for Stage II- Construction of Data Center:

A. Mechanical Works

Key Positions	Minimum Years of experience in such position	License/Certification Required
Registered and Licensed Mechanical Engineer	Three (3) years	PRC
Foreman	Three (3) years	TESDA
Skilled Worker/s	Three (3) years	TESDA
Labor Worker/s	One (1) year	N/A
Technician/s	Three (3) years	TESDA

B. Plumbing/ Sanitary Works

Key Positions	Minimum Years of experience in such position	License/Certification Required
Registered/ Licensed Master Plumber	Three (3) years	PRC
Foreman Plumber	Three (3) years	TESDA
Skilled Plumber	One (1) year	TESDA

Labor Worker/s	One (1) year	N/A
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C. Electrical Works

Key Positions	Minimum Years of experience in such position	License/Certification Required
Registered and Licensed Electrical Engineer	Three (3) years	PRC
Electrician/Technician	Three (3) years	PRC
Foreman	Three (3) years	TESDA
Labor Worker/s	One (1) year	N/A
Safety Officer	Three (3) years	BOSH/COSH Certificate (DOLE Accredited)
Quality Assurance/ Quality Control Officer	Three (3) years	Certified QA/QC and/or Diploma of Electrical Engineering

D. Fire Protection Works

Key Positions	Minimum Years of experience in such position	License/Certification Required
Registered and Licensed Mechanical Engineer	Three (3) years	PRC
Foreman	Three (3) years	TESDA
Skilled Worker/s	Three (3) years	TESDA
Pipe Fitter/s	Three (3) years	TESDA
Welder/s	Three (3) years	TESDA

E. Architectural/ Civil Works

Key Positions	Minimum Years of experience in such position	License/Certification Required
Registered and Licensed Architect or Civil	Three (3) years	PRC

Engineer		
Foreman	Three (3) years	TESDA
Skilled Worker/s	Three (3) years	TESDA
Labor Worker/s	One (1) year	N/A

F. Network/ Electronics Works

Key Positions	Minimum Years of experience in such position	License/Certification Required
Registered and Licensed Electronics Engineer/Computer Engineer	Three (3) years	PRC
Network Engineer	Three (3) years	Certifications
Foreman	Three (3) years	TESDA

G. Safety Officer

Key Positions	Minimum Years of experience in such position	License/Certification Required
1. Safety Officer 3	Three (3) years	BOSH/COSH Certificate (DOLE Accredited)

10.5	<p>The minimum major equipment requirements are the following:</p> <table border="1" data-bbox="292 241 1433 898"> <thead> <tr> <th data-bbox="292 241 828 286">Equipment</th> <th data-bbox="828 241 1131 286">Capacity</th> <th data-bbox="1131 241 1433 286">Number of Unit</th> </tr> </thead> <tbody> <tr> <td data-bbox="292 286 828 331">1. Tractor Head with Low Bed Trailer</td> <td data-bbox="828 286 1131 331"></td> <td data-bbox="1131 286 1433 331">1</td> </tr> <tr> <td data-bbox="292 331 828 376">2. Backhoe</td> <td data-bbox="828 331 1131 376">1 cu.m.</td> <td data-bbox="1131 331 1433 376">1</td> </tr> <tr> <td data-bbox="292 376 828 421">3. 10-Wheeler Dump Truck</td> <td data-bbox="828 376 1131 421">10 cu.m</td> <td data-bbox="1131 376 1433 421">2</td> </tr> <tr> <td data-bbox="292 421 828 465">4. Transit Mixer</td> <td data-bbox="828 421 1131 465">4-5 cu.m</td> <td data-bbox="1131 421 1433 465">2</td> </tr> <tr> <td data-bbox="292 465 828 510">5. Payloader</td> <td data-bbox="828 465 1131 510">1.8 cu.m</td> <td data-bbox="1131 465 1433 510">1</td> </tr> <tr> <td data-bbox="292 510 828 589">6. Telescopic or Lattice Crane with Bucket</td> <td data-bbox="828 510 1131 589">25 tons</td> <td data-bbox="1131 510 1433 589">1</td> </tr> <tr> <td data-bbox="292 589 828 633">7. Vibratory Compactor</td> <td data-bbox="828 589 1131 633">10 tons</td> <td data-bbox="1131 589 1433 633">1</td> </tr> <tr> <td data-bbox="292 633 828 678">8. Concrete Batching Plant</td> <td data-bbox="828 633 1131 678"></td> <td data-bbox="1131 633 1433 678">1</td> </tr> <tr> <td data-bbox="292 678 828 723">9. Concrete Stick Vibrator</td> <td data-bbox="828 678 1131 723"></td> <td data-bbox="1131 678 1433 723">2</td> </tr> <tr> <td data-bbox="292 723 828 768">10. Mobile Generator</td> <td data-bbox="828 723 1131 768">25 kVA</td> <td data-bbox="1131 723 1433 768">1</td> </tr> <tr> <td data-bbox="292 768 828 813">11. Compressor</td> <td data-bbox="828 768 1131 813"></td> <td data-bbox="1131 768 1433 813">1</td> </tr> <tr> <td data-bbox="292 813 828 857">12. Generator Tower Light</td> <td data-bbox="828 813 1131 857">4000 watts</td> <td data-bbox="1131 813 1433 857">3</td> </tr> <tr> <td data-bbox="292 857 828 898">13. Pumpcrete</td> <td data-bbox="828 857 1131 898"></td> <td data-bbox="1131 857 1433 898">1</td> </tr> </tbody> </table>	Equipment	Capacity	Number of Unit	1. Tractor Head with Low Bed Trailer		1	2. Backhoe	1 cu.m.	1	3. 10-Wheeler Dump Truck	10 cu.m	2	4. Transit Mixer	4-5 cu.m	2	5. Payloader	1.8 cu.m	1	6. Telescopic or Lattice Crane with Bucket	25 tons	1	7. Vibratory Compactor	10 tons	1	8. Concrete Batching Plant		1	9. Concrete Stick Vibrator		2	10. Mobile Generator	25 kVA	1	11. Compressor		1	12. Generator Tower Light	4000 watts	3	13. Pumpcrete		1
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12	Value Engineering shall be submitted based on the ABC and attached conceptual plan (Refer to the Scope of Works)																																										
15.1	<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"> <li data-bbox="316 1137 1445 1249">a. The amount of not less than ₱1,926,047.27 <i>[Insert 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; and <li data-bbox="316 1283 1445 1352">b. The amount of not less than ₱4,815,118.19 <i>[Insert five percent (5%) of ABC]</i> if bid security is in Surety Bond. 																																										
19.2	No Partial bids are allowed.																																										
20	Refer to Scope of Work																																										
21	<p>Additional contract documents relevant to the Project:</p> <ol style="list-style-type: none"> <li data-bbox="316 1476 791 1509">a. Construction schedule and S-curve; <li data-bbox="316 1509 600 1543">b. Manpower schedule; <li data-bbox="316 1543 628 1576">c. Construction Methods; <li data-bbox="316 1576 751 1610">d. Equipment Utilization Schedule; <li data-bbox="316 1610 1158 1644">e. Construction safety and health program approved by the DOLE, <li data-bbox="316 1644 1410 1722">f. Certificate of Site Inspection issued by the Infrastructure and Maintenance Division (IMD) of CEZA; <li data-bbox="316 1722 1027 1756">g. Site Inspection Report noted by CEZA representative; <li data-bbox="316 1756 963 1789">h. Other acceptable tools of project scheduling; and <li data-bbox="316 1789 995 1823">i. Other requirements provided in the Scope of Work. 																																										

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 Contractor, 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.

2. **Sectional Completion of Works**

If sectional completion is specified in the **Special Conditions of Contract (SCC)**, references in the Conditions of Contract to the Works, the Completion Date, and the Intended Completion Date shall apply to any Section of the Works (other than references to the Completion Date and Intended Completion Date for the whole of the Works).

3. **Possession of Site**

3.1 The Procuring Entity shall give possession of all or parts of the Site to the Contractor based on the schedule of delivery indicated in the **SCC**, which corresponds to the execution of the Works. If the Contractor suffers delay or incurs cost from failure on the part of the Procuring Entity to give possession in accordance with the terms of this clause, the Procuring Entity's Representative shall give the Contractor a Contract Time Extension and certify such sum as fair to cover the cost incurred, which sum shall be paid by Procuring Entity.

3.2 If possession of a portion is not given by the above date, the Procuring Entity will be deemed to have delayed the start of the relevant activities. The resulting adjustments in contract time to address such delay may be addressed through contract extension provided under Annex "E" of the 2016 revised IRR of RA No. 9184.

4. **The Contractor's Obligations**

The Contractor shall employ the key personnel named in the Schedule of Key Personnel indicating their designation, in accordance with **ITB** Clause 10.3 and specified in the **BDS**, to carry out the supervision of the Works.

The Procuring Entity will approve any proposed replacement of key personnel only if their relevant qualifications and abilities are equal to or better than those of the personnel listed in the Schedule.

5. Performance Security

- 5.1. Within ten (10) calendar days from receipt of the Notice of Award from the Procuring Entity but in no case later than the signing of the contract by both parties, the successful Bidder shall furnish the performance security in any of the forms prescribed in Section 39 of the 2016 revised IRR.
- 5.2. The Contractor, by entering into the Contract with the Procuring Entity, acknowledges the right of the Procuring Entity to institute action pursuant to RA No. 3688 against any subcontractor be they an individual, firm, partnership, corporation, or association supplying the Contractor with labor, materials and/or equipment for the performance of this Contract.

6. Site Investigation Reports

The Contractor, in preparing the Bid, shall rely on any Site Investigation Reports referred to in the SCC supplemented by any information obtained by the Contractor.

7. Warranty

- 7.1. In case the Contractor fails to undertake the repair works under Section 62.2.2 of the 2016 revised IRR, the Procuring Entity shall forfeit its performance security, subject its property(ies) to attachment or garnishment proceedings, and perpetually disqualify it from participating in any public bidding. All payables of the GOP in his favor shall be offset to recover the costs.
- 7.2. The warranty against Structural Defects/Failures, except that occasioned-on force majeure, shall cover the period from the date of issuance of the Certificate of Final Acceptance by the Procuring Entity. Specific duration of the warranty is found in the SCC.

8. Liability of the Contractor

Subject to additional provisions, if any, set forth in the SCC, the Contractor's liability under this Contract shall be as provided by the laws of the Republic of the Philippines.

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

9. Termination for Other Causes

Contract termination shall be initiated in case it is determined *prima facie* by the Procuring Entity that the Contractor has engaged, before, or during the implementation of the contract, in unlawful deeds and behaviors relative to contract acquisition and implementation, such as, but not limited to corrupt, fraudulent, collusive, coercive, and obstructive practices as stated in **ITB** Clause 4.

10. Dayworks

Subject to the guidelines on Variation Order in Annex “E” of the 2016 revised IRR of RA No. 9184, and if applicable as indicated in the SCC, the Dayworks rates in the Contractor’s Bid shall be used for small additional amounts of work only when the Procuring Entity’s Representative has given written instructions in advance for additional work to be paid for in that way.

11. Program of Work

11.1. The Contractor shall submit to the Procuring Entity’s Representative for approval the said Program of Work showing the general methods, arrangements, order, and timing for all the activities in the Works. The submissions of the Program of Work are indicated in the SCC.

11.2. The Contractor shall submit to the Procuring Entity’s Representative for approval an updated Program of Work at intervals no longer than the period stated in the SCC. If the Contractor does not submit an updated Program of Work within this period, the Procuring Entity’s Representative may withhold the amount stated in the SCC from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Program of Work has been submitted.

12. Instructions, Inspections and Audits

The Contractor shall permit the GOP or the Procuring Entity to inspect the Contractor’s accounts and records relating to the performance of the Contractor and to have them audited by auditors of the GOP or the Procuring Entity, as may be required.

13. Advance Payment

The Procuring Entity shall, upon a written request of the Contractor which shall be submitted as a Contract document, make an advance payment to the Contractor in an amount not exceeding fifteen percent (15%) of the total contract price, to be made in lump sum, or at the most two installments according to a schedule specified in the SCC, subject to the requirements in Annex “E” of the 2016 revised IRR of RA No. 9184.

14. Progress Payments

The Contractor may submit a request for payment for Work accomplished. Such requests for payment shall be verified and certified by the Procuring Entity’s Representative/Project Engineer. Except as otherwise stipulated in the SCC, materials and equipment delivered on the site but not completely put in place shall not be included for payment.

15. Operating and Maintenance Manuals

15.1. If required, the Contractor will provide “as built” Drawings and/or operating and maintenance manuals as specified in the SCC.

- 15.2. If the Contractor does not provide the Drawings and/or manuals by the dates stated above, or they do not receive the Procuring Entity's Representative's approval, the Procuring Entity's Representative may withhold the amount stated in the SCC from payments due to the Contractor.

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 Works procured. 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	
2	The Intended Completion Date is Three Hundred Sixty-Five (365) Calendar Days from project start date.
4.1	The Start Date is within Seven (7) Calendar Days upon receipt of Notice to Proceed or as determined by the Procuring Entity.
6	The site investigation reports are: Refer to Scope of Works
7.2	Fifteen (15) years.
10	No dayworks are applicable to the contract.
11.1	The Contractor shall submit the Program of Work to the Procuring Entity's Representative within sixty (60) days of delivery of the Notice of Award.
11.2	The amount to be withheld for late submission of an updated Program of Work is ₱9,630,236.37 (<i>ten percent (10%) of ABC</i>).
13	The amount of the advance payment is fifteen percent (15%) of the total contract price and payable in lump sum.
14	Materials and equipment delivered on the site but not completely put in place shall not be included for payment.
15.1	The date by which "as built" drawings are required is fourteen (14) calendar days before the completion of the Project.
15.2	The amount to be withheld for failing to produce "as built" drawings by the date required is ₱9,630,236.37 (<i>10% of ABC</i>).

Section VI. Specifications

Notes on 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 or conditioning their Bids. In the context of international competitive bidding, the specifications must be drafted 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 economy, efficiency, and fairness in procurement be realized, responsiveness of Bids be ensured, and the subsequent task of bid evaluation facilitated. The specifications should require that all goods and materials to be incorporated in the Works be new, unused, of the most recent or current models, and incorporate all recent improvements in design and materials unless provided otherwise in the Contract.

Samples of specifications from previous similar projects are useful in this respect. The use of metric units is mandatory. Most specifications are normally written specially by the Procuring Entity or its representative to suit the Works at hand. There is no standard set of Specifications for universal application in all sectors in all regions, but there are established principles and practices, which are reflected in these PBDs.

There are considerable advantages in standardizing General Specifications for repetitive Works in recognized public sectors, such as highways, ports, railways, urban housing, irrigation, and water supply, in the same country or region where similar conditions prevail. The General Specifications should cover all classes of workmanship, materials, and equipment commonly involved in construction, although not necessarily to be used in a particular Works Contract. Deletions or addenda should then adapt the General Specifications to the particular Works.

Care must be taken in drafting specifications to ensure that they are not restrictive. In the specification of standards for goods, materials, and workmanship, recognized 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 goods, materials, and workmanship that meet other authoritative standards, and which ensure substantially equal or higher quality than the standards mentioned, will also be acceptable. The following clause may be inserted in the SCC.

Sample Clause: Equivalency of Standards and Codes

Wherever reference is made in the Contract to specific standards and codes to be met by the goods and materials to be furnished, and work performed or tested, the provisions of the latest current edition or revision of the relevant standards and codes in effect 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 a substantially equal or higher quality than the standards and codes specified will be accepted

subject to the Procuring Entity's Representative's prior review and written consent. Differences between the standards specified and the proposed alternative standards shall be fully described in writing by the Contractor and submitted to the Procuring Entity's Representative at least twenty-eight (28) days prior to the date when the Contractor desires the Procuring Entity's Representative's consent. In the event the Procuring Entity's Representative determines that such proposed deviations do not ensure substantially equal or higher quality, the Contractor shall comply with the standards specified in the documents.

These notes are intended only as information for the Procuring Entity or the person drafting the Bidding Documents. They should not be included in the final Bidding Documents.

PLEASE REFER TO

ANNEX "A"

FOR

SCOPE OF WORK

Section VII. Drawings

PLEASE REFER TO

ANNEX “B”

FOR

DRAWINGS:

A. CONCEPTUAL PLANS

B. UTILITY LOCATIONS

Section VIII. Bill of Quantities

Notes on the Bill of Quantities

Objectives

The objectives of the Bill of Quantities are:

- a. to provide sufficient information on the quantities of Works to be performed to enable Bids to be prepared efficiently and accurately; and
- b. when a Contract has been entered into, to provide a priced Bill of Quantities for use in the periodic valuation of Works executed.

In order to attain these objectives, Works should be itemized in the Bill of Quantities in sufficient detail to distinguish between the different classes of Works, or between Works of the same nature carried out in different locations or in other circumstances which may give rise to different considerations of cost. Consistent with these requirements, the layout and content of the Bill of Quantities should be as simple and brief as possible.

Daywork Schedule

A Daywork Schedule should be included only if the probability of unforeseen work, outside the items included in the Bill of Quantities, is high. To facilitate checking by the Entity of the realism of rates quoted by the Bidders, the Daywork Schedule should normally comprise the following:

- a. A list of the various classes of labor, materials, and Constructional Plant for which basic daywork rates or prices are to be inserted by the Bidder, together with a statement of the conditions under which the Contractor will be paid for work executed on a daywork basis.
- b. Nominal quantities for each item of Daywork, to be priced by each Bidder at Daywork rates as Bid. The rate to be entered by the Bidder against each basic Daywork item should include the Contractor's profit, overheads, supervision, and other charges.

Provisional Sums

A general provision for physical contingencies (quantity overruns) may be made by including a provisional sum in the Summary Bill of Quantities. Similarly, a contingency allowance for possible price increases should be provided as a provisional sum in the Summary Bill of Quantities. The inclusion of such provisional sums often facilitates budgetary approval by avoiding the need to request periodic supplementary approvals as the future need arises. Where such provisional sums or contingency allowances are used, the SCC should state the manner in which they will be used, and under whose authority (usually the Procuring Entity's Representative's).

The estimated cost of specialized work to be carried out, or of special goods to be supplied, by other contractors should be indicated in the relevant part of the Bill of Quantities as a particular provisional sum with an appropriate brief description. A separate procurement procedure is normally carried out by the Procuring Entity to select such specialized contractors. To provide an element of competition among the Bidders in respect of any facilities, amenities, attendance, etc., to be provided by the successful Bidder as prime Contractor for the use and convenience of the specialist contractors, each related provisional sum should be followed by an item in the Bill of Quantities inviting the Bidder to quote a sum for such amenities, facilities, attendance, etc.

Signature Box

A signature box shall be added at the bottom of each page of the Bill of Quantities where the authorized representative of the Bidder shall affix his signature. Failure of the authorized representative to sign each and every page of the Bill of Quantities shall be a cause for rejection of his bid.

These Notes for Preparing a Bill of Quantities are intended only as information for the Procuring Entity or the person drafting the Bidding Documents. They should not be included in the final documents.

PLEASE REFER TO
ANNEX “C”
FOR
BILL OF QUANTITIES

Section IX. Checklist of Technical and Financial Documents

Notes on the Checklist of Technical and Financial Documents

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

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

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

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class "A" Documents

Legal Documents

- (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages) 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**
- (c) Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided under the rules; **and**
- (d) Special PCAB License in case of Joint Ventures **and** registration for the type and cost of the contract to be bid; **and**
- (e) 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**
- (f) Project Requirements, which shall include the following:
- a. Organizational chart for the contract to be bid;
- b. List of contractor's key personnel (*e.g.*, Project Manager, Project Engineers, Materials Engineers, and Foremen), to be assigned to the contract to be bid, with their complete qualification and experience data;
- c. List of contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership or certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be (10.5); **and**
- (g) 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.
- (h) The prospective bidder's computation of Net Financial Contracting Capacity (NFCC).

Class “B” Documents

- (i) If applicable, duly signed joint venture agreement (JVA) in accordance with RA No. 4566 and its IRR 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.

- (j) *Other documentary requirements by the Procuring Entity:*
 - Construction schedule and S-curve

 - Manpower schedule

 - Construction Methods

 - Equipment Utilization Schedule

 - Construction safety and health program approved by the DOLE, and other acceptable tools of project scheduling, and

 - Certificate of Site Inspection

 - Site Inspection Report

II. FINANCIAL COMPONENT ENVELOPE

- (k) Original of duly signed and accomplished Financial Bid Forms; **and**

Other documentary requirements under RA No. 9184

- (l) Original of duly signed Bid Prices in the Bill of Quantities; **and**
- (m) Duly accomplished Detailed Estimates Form, including a summary sheet indicating the unit prices of construction materials, labor rates, and equipment rentals used in coming up with the Bid; **and**
- (n) Cash Flow by Quarter.



SCOPE OF WORKS

PROPOSED UPGRADING OF TELECOMMUNICATION FACILITIES DESIGN AND BUILD OF THREE-STOREY CEZA DATA CENTER BUILDING

A. INTRODUCTION

The Cagayan Economic Zone Authority (CEZA) was created through Republic Act 7922, otherwise known as the "Cagayan Special Economic Zone Act of 1995", and signed by President Fidel V. Ramos on February 24, 1995. CEZA is a government corporate body tasked to manage and supervise the Cagayan Special Economic Zone and Freeport (CSEZFP) which covers the entire municipality of Santa Ana and the islands of Fuga, Barit and Mabbag in the municipality of Aparri, Province of Cagayan.

The area is envisioned to be a self-sustaining, eco-friendly freeport and agri-industrial zone and mixed-use new township development. It is being developed to be a major transshipment center for agro-industrial, light and medium, and high technology and knowledge-based industries with world-class tourism facilities and establishments. It will also provide for residential and commercial districts complete with state-of-the-art utilities and infrastructure support systems.

The development of CSEZFP will be anchored on a tri-nodal development nucleus: the creation of a transshipment industry; agro-industrial development by enhancing agricultural produce and endowments with foreign technology and capital for value-added yield; and the development of tourism and leisure facilities.

B. STATEMENT OF PURPOSE

This Scope of Works (SOW) has been compiled by CEZA solely for the **Proposed Upgrading of Telecommunication Facilities - Design and Build of Three-Storey CEZA Data Center Building** at the Cagayan Special Economic Zone and Freeport.

The CEZA data center project aims to be the premier choice for colocation in Sta Ana, Cagayan area catering to numerous businesses including the gaming and fintech market. Aside from external customers, the data center will host internal information technology requirements making it the central hub for all IT infrastructure needs.

The intent is to construct a three (3) - storey building that will house the CEZA Data Center with a tier 3 compliant of 99.982% Service Level Agreement (SLA) uptime, state-of-the-art data center within the newly built CEZA Business Center in Santa Ana, Cagayan. The entire Ground Floor will be dedicated to the data center infrastructure facility of which around 597.79 sq.m. will be phase-1 of the project which will cater initial 40 racks and the rest will be for future expansion.

This data center is projected to have a total capacity of 160 racks with 3 kilowatts of power incorporated into the proposed building generator set which will provide backup power in case of a power outage or interruption. Another Generator set, UPS and PACU dedicated only for the

use of the data center shall also form part of the design consideration.

To protect the data center and its customers from any unauthorized entry, it will be equipped with access controls with an alarm system and CCTV cameras which can be monitored 24/7 by the building's security team.

C. CAVEAT

This information is given to assist prospective firms to make their own research and evaluation of the Project, and to aid them in the preparation of the proposal. CEZA does not guarantee the accuracy and completeness of the information contained in the SOW or its various attachments. In all cases, interested parties should conduct their own due diligence, investigation, analysis and projections for the proposed work.

By accepting this SOW, the recipient acknowledges and accepts that: (1) none of the information contained herein will be used by the recipient or any of its employees or representatives in any manner whatsoever, in whole or in part, other than in connection with its evaluation of the work on the specific basis proposed herein; (2) without limiting the generality of the foregoing, the recipient will not reproduce this SOW to any person other than a limited number of the recipient's employees or representatives who have a clear need to know such information; and, (3) any proposed action by the recipient which are inconsistent in any way with the foregoing agreements will require prior written consent of CEZA.

While CEZA is open to all applications from qualified parties, CEZA reserves the right not to accept any proposal, to reject any or all proposals, to waive formalities therein, or to accept such proposals as may be advantageous to CEZA without thereby incurring any liabilities thereof.

D. OBJECTIVE AND SCOPE OF SERVICES OF THE PROPOSED WORK

Cagayan Economic Zone Authority (CEZA) intends to bid out the Proposed Upgrading of Telecommunication Facilities - Design and Build of Three-Storey CEZA Data Center Building to eligible local contractors. The objectives of the services are as follows:

1. To support the existing and future requirements of the gaming and fintech companies located in CEZA;
2. To build and modernize CEZA's IT Infrastructure and Telecommunication Facilities;
3. To support CEZA's initiative on Digital Transformation;
4. To ensure that the detailed engineering design of the Contractor shall conform to the structural standards and specifications and conceptual requirements of CEZA;
5. To ensure that the construction shall conform to the structural standards, specifications and requirements of CEZA;
6. To ensure that the Contractor will institute the works in accordance with National Building Code of the Philippines (NBCP), National Structural Code of the Philippines

(NSTP), Department of Public Works and Highways (DPWH) Standards and Specifications for roads/buildings/structures, Philippine Electronics Code, Philippine Electrical Code, and any applicable codes;

7. To comply with the Department of Labor and Employment's (DOLE) Occupational Safety and Health Standards.

The Contractor shall prepare the Detailed Engineering Design for the Proposed Upgrading of Telecommunication Facilities - Design and Build of Three-Storey CEZA Data Center Building. The following submittals and accomplished documents shall be duly completed and turned over by the Design & Build Contractor for the Project:

A. Pre-Design Stage

1. Reconnaissance Report
2. Survey Sketch Plans [with technical description]
3. Site survey, topographic survey, geotechnical report, and all other pertinent data related to the conditions of the project site.
4. Preliminary Architectural and Engineering designs and layouts
5. Outline specifications, Value Engineering Analysis, and cost estimates.

B. Design Stage

The general engineering design services shall include topographical and other field surveys, structural design, soil and materials investigations, preparation of complete detailed design plans, technical specifications, estimates of quantities, detailed unit prices analysis and cost estimates.

Detailed Architectural and Engineering Design Works will include but shall not be limited to:

1. Detailed Structural Design and Analysis
2. Construction plans [signed and sealed] that include Architectural, Civil, Structural, Electrical, Mechanical, Electronics/Communications Network Layout, Fire Protection, and Plumbing / Sanitary plans [8 sets hardcopy and 1 softcopy CAD file].
3. Technical Specifications [8 sets hardcopy and 1 softcopy file]
4. Detailed Cost Estimate [8 sets hardcopy and 1 softcopy]
5. Bill of Quantities [8 sets hardcopy and 1 softcopy]
6. Documents required for securing the Building Permit
7. Drawings and reports that CEZA may need for the periodic update concerning the status of the design phase.
8. Detailed Unit Price Analysis (DUPA)
9. Soil and Materials Investigations
10. Contract/Construction Plan

C. Construction Stage

All works shall be in accordance with the NBCP, Standard Specification for buildings or any applicable code and DPWH Standards for pavements and storm drains. Likewise, existing provisions and related issuances will be complied.

The contractor shall be responsible for basic material testing for aggregates, concrete, and rebar in the presence of Project Inspectors.

The contractor shall provide a Temporary Earth Retainer to protect the existing Portland Cement Concrete Pavement (PCCP) Sub-base materials from erosion, and install fencing within the site perimeter.

The contractor shall undertake coordination with the CEZA Office of the Building Official and secure needed permits/clearances with concerned government agencies if applicable from the start to the completion of the project.

The contractor shall prepare the necessary documents that will include but not limited to:

1. Monthly Progress Reports
2. As-built plans [5 sets hardcopy and 1 softcopy CAD file]
3. All necessary permits [Fees shall be included in the contract]
4. Shop drawings
5. PERT-CPM, S-Curve, Gantt Chart
6. Construction Methodology
7. Construction Occupational Safety and Health Program
8. Material Test results
9. Guarantees, warranties, and other certificates
10. Fire and Safety Compliance and Commissioning Report [FSCCR] and Fire Safety Maintenance Report [FSMR]
11. Fire Safety Evaluation Clearance (FSEC) and Fire Safety Inspection Certificate (FSIC)
12. All other documents necessary in line with the construction as may be required by CEZA.

E. DESIGN PARAMETERS

Total Floor Area.

The New CEZA Data Center Building is a Three (3) storey structure with an estimated Total Gross Floor Area (TGFA) of approximately 3,961.63 sq.m. as shown in Table 1.1.

Table 1.1 Total Gross Floor Area (TGFA) for the Proposed CEZA Data Center Building	
Floor	Gross Floor Area (sq.m.)

Ground Floor	1,115.92
Mezzanine Floor	57.76
Second Floor	1,267.92
Third Floor	1,267.92
Penthouse	252.11
Total Gross Floor Area	3,961.63

1. Architectural Design Concept

The design shall consider the utilization of natural lighting and highly efficient materials thereby reducing energy costs. The design shall have features that will help reduce greenhouse gas emissions and urban heat and help improve stormwater management as it delays run-off into the storm drainage system.

The design shall be in compliance with the Revised Space Allocation Standards for the construction and acquisition of office/space as well as the National Building Code of the Philippines and its referral codes, Accessibility Law and other related rules and standards as specified in the DBM and DPWH Joint Circular dated October 20, 2016.

1.1. Building Architectural Works

1.1.1. Floor Plans

- a. The structural, sanitary, plumbing, electrical and mechanical designs are required to refer to the architectural plans and specifications in case of discrepancies. If an engineering design will have any possible conflict or interference on the architectural design, the latter may be adjusted provided that the aesthetic value will not be compromised.
- b. The architectural and engineering plans shall be consistent all throughout in terms of dimensions and locations of columns, beams, walls, roof line, conduits, ducts, pipes, and fixtures, among others. Column and beam grid lines shall also be consistent in all the architectural and engineering plans.
- c. Verify and coordinate floor plans with the mechanical, electrical and sanitary design with regard to the requirements for mechanical rooms, AHU rooms, electrical rooms, pipe chase, and other engineering requirements.
- d. Toilets shall have provisions and fixtures for persons with disability as required by BP 344. If enough space allows, toilets specially made and designated for persons with disability is preferable.
- e. Provide Architectural Layout.

1.1.2. Walls

- a. Dry walls shall not be embedded with wet utilities.

- b. Layout and work on wall and floor tiles must be aligned, plumb, leveled, and squared.
- c. Tiles color and design shall be approved first before installation.
- d. Walls in the generator or electrical room shall be provided with sound proofing to block noise coming from the generator during operation.
- e. The material of the facade shall be made of brick wall cladding, fluted wall panel, curtain wall system and Stucco finish. *(Please refer to Annex "B" - Conceptual Plans).*

1.1.3.Floors

- a. Floors at the openings of toilets for persons with disability shall be sloping. Indicate in the plans and sections.
- b. Layout and work on wall and floor tiles must be aligned, plumb, leveled, and squared.
- c. Tile color, size and design shall be approved first before installation.
- d. The Ground Floor shall be elevated 1 meter from the level of existing Portland Cement Concrete Pavement(PCCP) except for the pump room. *(Please refer to Annex "B" - Conceptual Plans).*
- e. The floor to floor height shall be as follows: Ground floor to Second floor - 5 meters; Ground floor to Mezzanine floor - 2.5 meters; Second floor to Third floor - 4 meters; Third floor to Penthouse - 4 meters; Penthouse to Main Roof Pitch - 3.5 meters.
- f. Server Farm shall be designed with an anti-static raised flooring system to cater mechanical ducting for the cooling system and other utilities under floor.

1.1.4.Ceiling Works

- a. Ceiling materials and finishes shall be approved first before application.
- b. Cement board of 4.5mm with metal furring frames; full threaded support with shadow line and hangers.
- c. 8mm diameter metal rod hangers with adjustable clips, and not galvanized iron wires, shall be used to support and suspend the aluminum T-runners and light gauge metal furring.
- d. Ceiling in the generator or electrical room shall be provided with sound proofing to block noise coming from the generator during operation.
- e. Open ceiling for office space.

1.1.5.Doors and Windows

- a. Rooms such as the telco rooms 1,2,3, Meetup room, UPS room and Storage shall be made of fire rated metal door equipped with card access system; Tempered glass door for rooms such as the Facilities of Engineers, Network Operations Center (NOC), Security Office also equipped with card access system.
- b. Rooms or spaces that do not require security shall have at least hollow core flush doors with painted finish.
- c. Fire escape doors should be provided with panic hardware and door closers, and shall conform to the requirements of the Fire Code of the Philippines.

- d. Aluminum frames of glass doors and windows shall be approved first before application.
- e. Door finish and color shall be approved first before application.
- f. Window sills shall be slightly sloped outwards to prevent damage to windows and paint due to water slippage.
- g. All doors of a high-occupancy room shall be double action swing doors and as required by the Fire Code of the Philippines.

1.1.6. Corridors

- a. New corridors shall have a minimum unobstructed width of at least 1800mm. This shall be measured clear from the surface of the finished wall and not on-center of the rough CHB wall.
- b. Corridors and exit doors shall conform to the requirements of the Fire Code of the Philippines.

1.1.7. Painting

- a. Painted ceiling shall be in antibacterial paint finish, unless otherwise specified.
- b. Painted interior walls shall be at least in semi-gloss paint finish for ordinary rooms, e.g. offices, unless specified to a higher type of paint.
- c. Painted exterior wall shall be at least moisture-resistant/water-repellent paint finish, textured or smooth, unless otherwise specified.
- d. Paint color and shade shall be approved first before application.

1.1.8. Summary of Materials

- a. Materials to be used shall be fire-resistant, non-toxic, moisture-resistant and termite resistant, e.g. fiber cement board, light-gauge steel frame.
- b. Wet areas, e.g. toilets, and kitchen shall use non-skid/non-slip vitrified ceramic floor tiles.
- c. Heavy traffic areas, e.g. lobby, and corridor shall use non-skid granolithic or granite floor tiles or a higher type of floor material.
- d. Ramps and stairs shall use non-skid/non-slip floor tiles, materials as specified.
- e. Fiber Cement board of 4.5mm with metal furring frames; full threaded support with shadow line and hangers.
- f. 8mm diameter metal rod hangers with adjustable clips, and not galvanized iron wires, shall be used to support and suspend the aluminum T-runners and light gauge metal furring.

2. Structural Design Concept

Structural framing shall be composed of reinforced concrete. Structural materials shall be locally available and accessible to avoid inconvenience and delay. Likewise, adopt economical design without compromising the allowable factor of safety for structural design considering the seismic and typhoon frequency of the area.

3. Electrical Design Concept

General lighting design shall be adequate for standard office requirements. The use of energy efficient lighting systems is recommended. Ornamental lighting design can be considered if it is necessary. Electrical distribution systems shall also consider provisions for future electrical expansions and developments. Back-up generator set, silent type with external fuel reservoir, capable of running 24 hours of full load operation shall be given. All electrical systems and components shall be properly grounded and a building lightning protection, appropriate for data center requirement, shall be given. All floors shall be provided with stub outs necessary for future electrical expansion.

Fixtures and Accessories

- a. Three-way electrical light switches shall be provided at both ends of a long corridor.
- b. Electrical light switches shall be located by the knob side of the door.
- c. Electrical switches and outlets shall be installed plumb and level.

4. Mechanical Design Concept

Elevator system (1 unit of elevator) shall be provided to the building occupants. Service/Passenger Elevator shall be designed to carry at least 20 persons. Design speed shall be set accordingly for efficient operation. It shall be designed as a machine roomless for Elevator.

Fire protection and fire suppression systems shall be provided with wet and dry standpipes, fire hose cabinets, fire extinguishers, addressable type fire alarm system and sprinkler system, smoke detector, fire exits, evacuation plan and complete signages/tagging of the system (pipe direction, label, etc..) and within the building (warning, caution, ect), among others.

Air-conditioning System shall be provided using energy-saving and cost-saving technology (Inverter Unit) w/ complete set of accessories. Topping point of ACU drain and access of copper tubes for future expansion shall also be provided.

Data Center - Server Farm shall be provided with Precision Air Conditioning Units (PACU) cold aisle containment with Clean Agent Fire Suppression System (Novec1230) and Aspirating Smoke Detection System.

5. Electronics Design Concept

Data and voice system shall include Local Area Network (LAN) wiring, cabling and roughing-ins. All floors shall be provided with Horizontal and vertical roughing-ins

for the internet service provider connectivity ready-provision. The whole building shall be provided with **Addressable Fire Detection and Alarm System** to cover all areas within the building as well as equipment integrations as required by the Fire Code of the Philippines and its Revised-IRR and the Philippine Electronics Code. **Public Address System** shall be provided to be mainly used for announcement and emergency evacuation.

CCTV Surveillance System shall be **IP-based CCTV System** shall monitor the following areas; all exits leading outside the building, entrance and exit gates, main lobby, access to server farms, common area, inside server farm and the building perimeter. CCTV Monitoring will be in the Security Office. Security Management System with at least 7-level of security access with a complete **Visitor Management System** shall be provided within the Data Center Building to monitor and manage access control both for visitors and authorized personnels..

Server Farm shall be provided with 42U Equipment/Server Rack with basic PDU and equipped with vertical cable/PDU manager. Environmental Monitoring System shall be provided to ensure complete monitoring against water leak, temperature and humidity alarms.

At least 3 Internet Service Providers shall be considered in the design for the connectivity with a common meet-up room as connection point for the data center clients.

6. Sanitary and Plumbing Design Concept

Plumbing and sanitary systems shall use low-flow plumbing fixtures. Rooftop downspouts shall be directed to the rain collector/catcher system. Such a rain collector/catcher system shall serve as a retention pond to delay surface run-off into the street drainage. It shall be designed to infiltrate the rain water back into the ground while the excess is discharged to the storm drainage. Sewerage system shall be considered in the design wherein the outflow shall be connected to the site STP.

Potable water tank shall be designed below ground level and to be distributed to plumbing fixtures with a vertical turbine pump and a booster pump.

Provisions for future plumbing and sanitary expansions and development shall be considered.

7. The building shall include a storm drainage system, sufficient pressurized water tank and pump, tern tank and fixtures, fire pump, jockey pump and fire tank, power (generator), transformer and transformer pads.

8. Landscaping design (Softscape and Hardscape) shall be included as per the requirement of the National Building Code of the Philippines.

F. CONTRACTOR'S REQUIREMENT

1. The contractor must have at least a valid PCAB License Category B, Size Range Medium A for General Building - GB-1 Building and Industrial plant, with SP-CF (Communication Facilities) and SP-EM (Electro-Mechanical Work) for the proposed project.
2. Previous Data Center structures constructed by the contractor shall have a size not less than 50% of the size and extent of the project required by CEZA.
3. The contractor should have the necessary equipment to be used in the construction of the project, which shall be owned or leased. The equipment to be used should include but not limited to:
 - i. 1 unit Tractor head with low bed trailer
 - ii. 1 unit Backhoe 1 cu.m.
 - iii. 2 units 10-wheeler Dump truck 10 cu.m
 - iv. 2 units Transit Mixer 4-5 cu.m
 - v. 1 unit Payloader 1.8 cu.m
 - vi. 1 unit telescopic or lattice Crane with bucket 25 tons
 - vii. 1 unit vibratory compactor 10 tons
 - viii. 1 concrete batching plant
 - ix. 2 concrete stick vibrator
 - x. 1 mobile generator 25kVA
 - xi. 1 compressor
 - xii. 3 generator tower light 4000 watts
 - xiii. 1 unit Pumpcrete
4. The prospective bidder must have a certificate of site inspection Issued by the Infrastructure and Maintenance Division of Cagayan Economic Zone Authority and submit an Inspection Report.

G. PERSONNEL AND MANPOWER REQUIREMENT

The Contractor must provide and deploy personnel upon the commencement of activities. The key personnel must meet the required minimum years of experience set below:

I. Professionals for the Stage I –Design of Data Center:

Key Positions	Minimum Years of experience in such position	License/Certification Required
1. Principal Architect/	Seven (7) years	PRC and UAP (United Architects of the

Designer		Philippines)
2. Project Manager/ Coordinator	Seven (7) years	PRC and UAP (United Architects of the Philippines)
3. Licensed Civil Engineer	Seven (7) years	PRC and PICE (Philippine Institute of Civil Engineers)
4. Professional Electrical Engineer	Seven (7) years	PRC and IIEE (Institute of Integrated Electrical Engineers)
5. Professional Electronics Engineer/ Electronics Engineer	Seven (7) years	PRC and IECEP (Institute of Electronics Engineers of the Philippines)
6. Professional Mechanical Engineer	Seven (7) years	PRC and PSME (Philippine Society of Mechanical Engineers)
7. Licensed Sanitary Engineer	Seven (7) years	PRC and PSSE (Philippine Society of Sanitary Engineers)
8. Network Engineer	Five (5) years	CCNA/CCNP or JNCDA/JNCDS (Cisco Certified Network Associate/Professional or Juniper Networks Certification Design Associate/ Data Center Design, Specialist
9. CAD Draftsman	Proficient in CAD operation (AutoCAD release 2010 or later and Sketchup 2012) to support the production of design plans/drawings and other needed documents.	Training Certificate

II. Manpower for Stage II- Construction of Data Center:

A. Mechanical Works

Key Positions	Minimum Years of experience in such position	License/Certification Required
1. Registered and Licensed Mechanical Engineer	Three (3) years	PRC
2. Foreman	Three (3) years	TESDA
3. Skilled Worker/s	Three (3) years	TESDA
4. Labor Worker/s	One (1) year	n/a
5. Technician/s	Three (3) years	TESDA

B. Plumbing/ Sanitary Works

Key Positions	Minimum Years of experience in such position	License/Certification Required
1. Registered/ Licensed Master Plumber	Three (3) years	PRC
2. Foreman Plumber	Three (3) years	TESDA
3. Skilled Plumber	One (1) year	TESDA
4. Labor Worker/s	One (1) year	n/a

C. Electrical Works

Key Positions	Minimum Years of experience in such position	License/Certification Required
1. Registered and Licensed Electrical Engineer	Three (3) years	PRC
2. Electrician/Technician	Three (3) years	PRC
3. Foreman	Three (3) years	TESDA
4. Labor Worker/s	One (1) year	n/a
5. Safety Officer	Three (3) years	BOSH/COSH Certificate (DOLE Accredited)
6. Quality Assurance/ Quality Control Officer	Three (3) years	Certified QA/QC and/or Diploma of Electrical Engineering

D. Fire Protection Works

Key Positions	Minimum Years of experience in such position	License/Certification Required
1. Registered and Licensed Mechanical Engineer	Three (3) years	PRC
2. Foreman	Three (3) years	TESDA
3. Skilled Worker/s	Three (3) years	TESDA
4. Pipe Fitter/s	Three (3) years	TESDA
5. Welder/s	Three (3) years	TESDA

E. Architectural/ Civil Works

Key Positions	Minimum Years of experience in such position	License/ Certification Required
1. Registered and Licensed Architect or Civil Engineer	Three (3) years	PRC
		TESDA

2. Foreman	Three (3) years	
3. Skilled Worker/s	Three (3) years	TESDA
4. Labor Worker/s	One (1) year	n/a

F. Network/ Electronics Works

Key Positions	Minimum Years of experience in such position	License/Certification Required
1. Registered and Licensed Electronics Engineer/Computer Engineer	Three (3) years	PRC
2. Network Engineer	Three (3) years	Certifications
3. Foreman	Three (3) years	TESDA

G. Safety Officer

Key Positions	Minimum Years of experience in such position	License/Certification Required
1. Safety Officer 3	Three (3) years	BOSH/COSH Certificate (DOLE Accredited)

H. DATA AND ASSISTANCE TO BE PROVIDED BY CEZA

It shall be the responsibility of CEZA to provide the contractor with the conceptual/layout design and other guidelines which will be the basis of the design and construction.

CEZA shall likewise provide liaison with government agencies and to ensure that the contractor shall have access to all information as may be allowed by the law for the performance of service.

I. EQUIPMENT AND TEMPORARY FACILITIES TO BE PROVIDED BY THE CONTRACTOR

Equipment and Temporary facilities for the contractor's workers shall be provided by the contractor without CEZA's expense.

J. REPORTING AND SUPERVISORY RELATIONSHIP

The contractor shall report to the CEZA Administrator and Chief Executive Officer thru the Head of the Infrastructure and Maintenance Division on technical and administrative matters.

K. REPORTS AND DOCUMENTS

The contractor shall submit the following reports and documents to CEZA in the format and content as indicated:

1. Detailed Design Work Program – in the form of bar chart & S-curve within the month of the starting date.
2. Design Report – summary of the basis for the presented design including all design calculations properly indexed in five (5) hard copies and one (1) electronic copy.
3. Soil and Materials Report – showing results of all soil surveys and subsurface investigations and test results. The report shall also include evaluations and recommendations together with the final construction drawings in five (5) hard copies and one (1) electronic copy.
4. Quantity Estimates – complete calculation for every item of works specified in the Bill of Quantities (BOQ) to be submitted together with the final construction drawings in five (5) hard copies and one (1) electronic copy.
5. Unit Price Analysis – showing all calculations made in determining the unit price for each item of work including profit factor, overhead, contractor’s tax, etc. to be submitted together with the final construction drawings in five (5) hard copies and one (1) electronic copy.
6. Draft Construction Drawings – Three (3) hard copies in 20” x 30” size within forty-five (45) days after the issuance of Notice to Proceed (NTP) for review and approval of CEZA.
7. Final Construction Drawings – submit within fifteen (15) days upon receipt of the final comments from CEZA in five (5) hard copies, A-1 size, and two (2) electronic copies.
8. Testing and Commissioning - submit all conducted testing and commissioning reports, duly witnessed and accepted by the contractor and CEZA representatives, of all equipment installed within the system.
9. Maintenance Procedure - submit/turn-over the maintenance procedure required for all equipment within the system.
10. System Manual - turn-over all the system manuals for all equipment installed within the system.

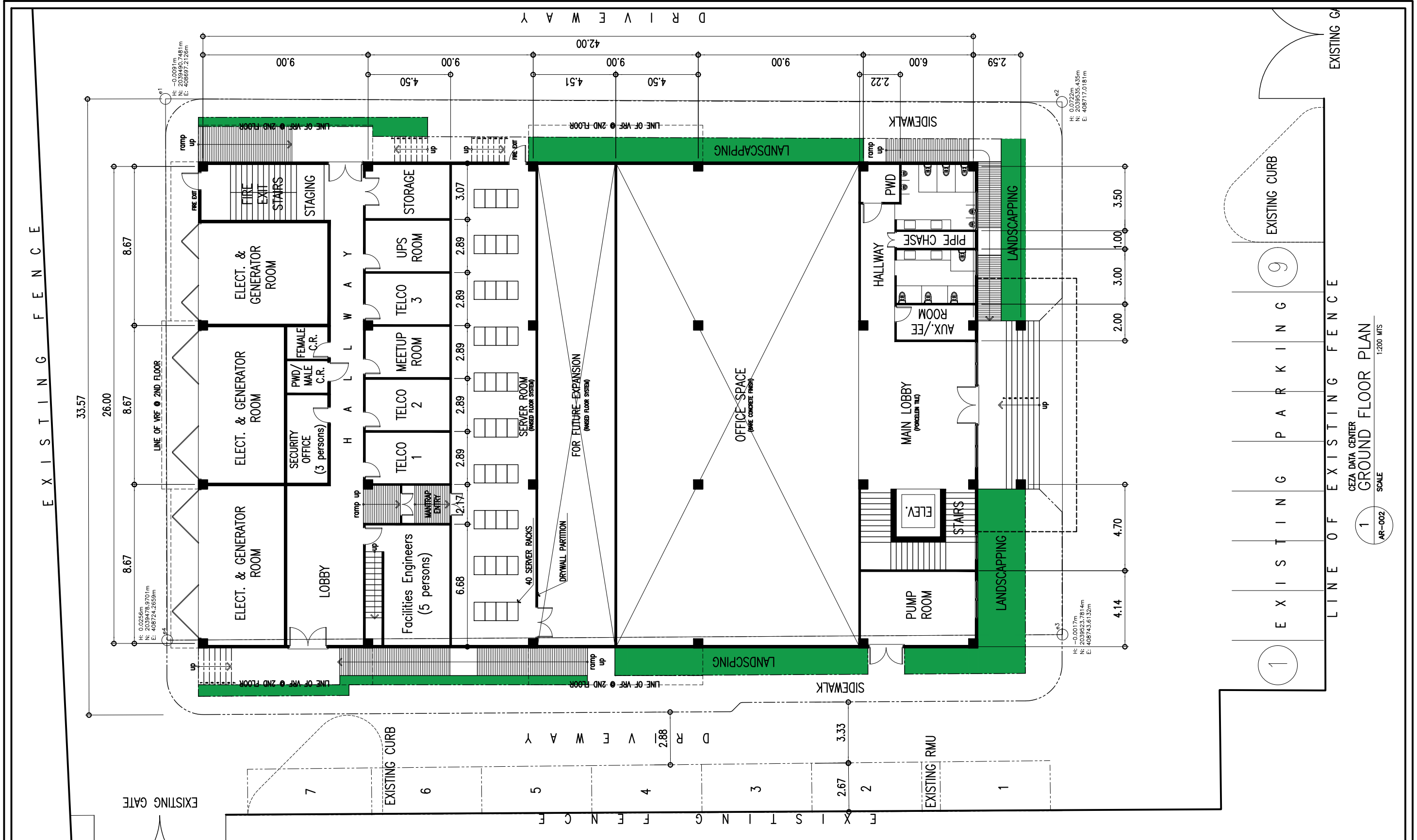
L. TIME SCHEDULE / DELIVERABLES

UPGRADING OF TELECOMMUNICATION FACILITIES DESIGN AND BUILD

OF THREE-STOREY CEZA DATA CENTER BUILDING at Cagayan Special Economic Zone and Freeport should be completed within **365 days** upon receipt of Notice to Proceed from CEZA.

M. LEVEL OF EFFORT

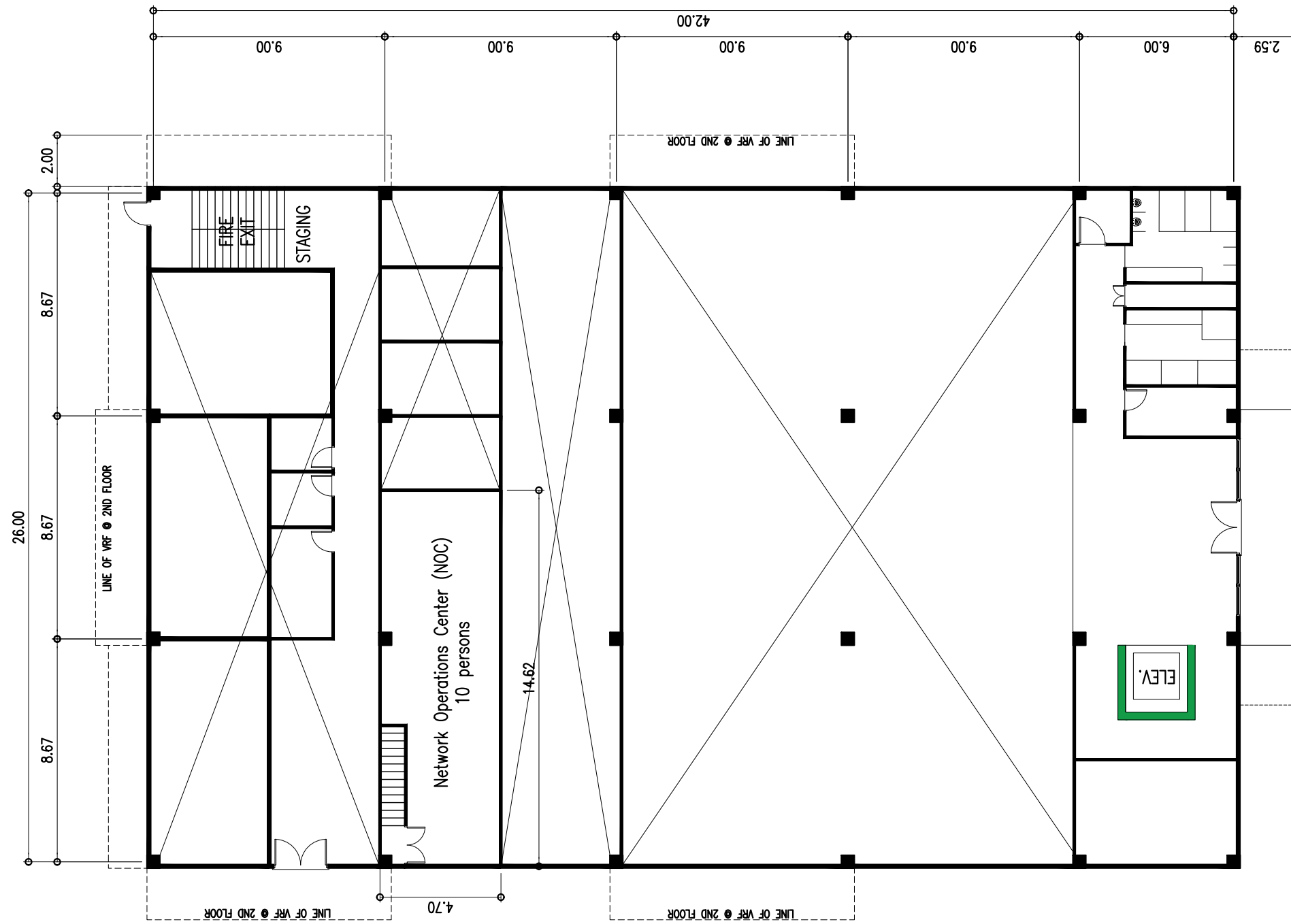
1. The Contractor shall be expected to determine the level of effort that requires expatriate technical and professional services during the life of the Contract. Short-term expatriate assistance should be kept to the minimum required by the Contractor for assuming complete responsibility for the performance of the work under this project.
2. The Contractor shall be expected to determine the level of effort for local technical and professional services required for the performance of the work under this request for proposal.
3. The Contractor shall be expected to determine the level of effort for secretarial, administrative and logistical support staff required to support the work under this request for proposal.



CEZA DATA CENTER
GROUND FLOOR PLAN
SCALE 1:200 MTS

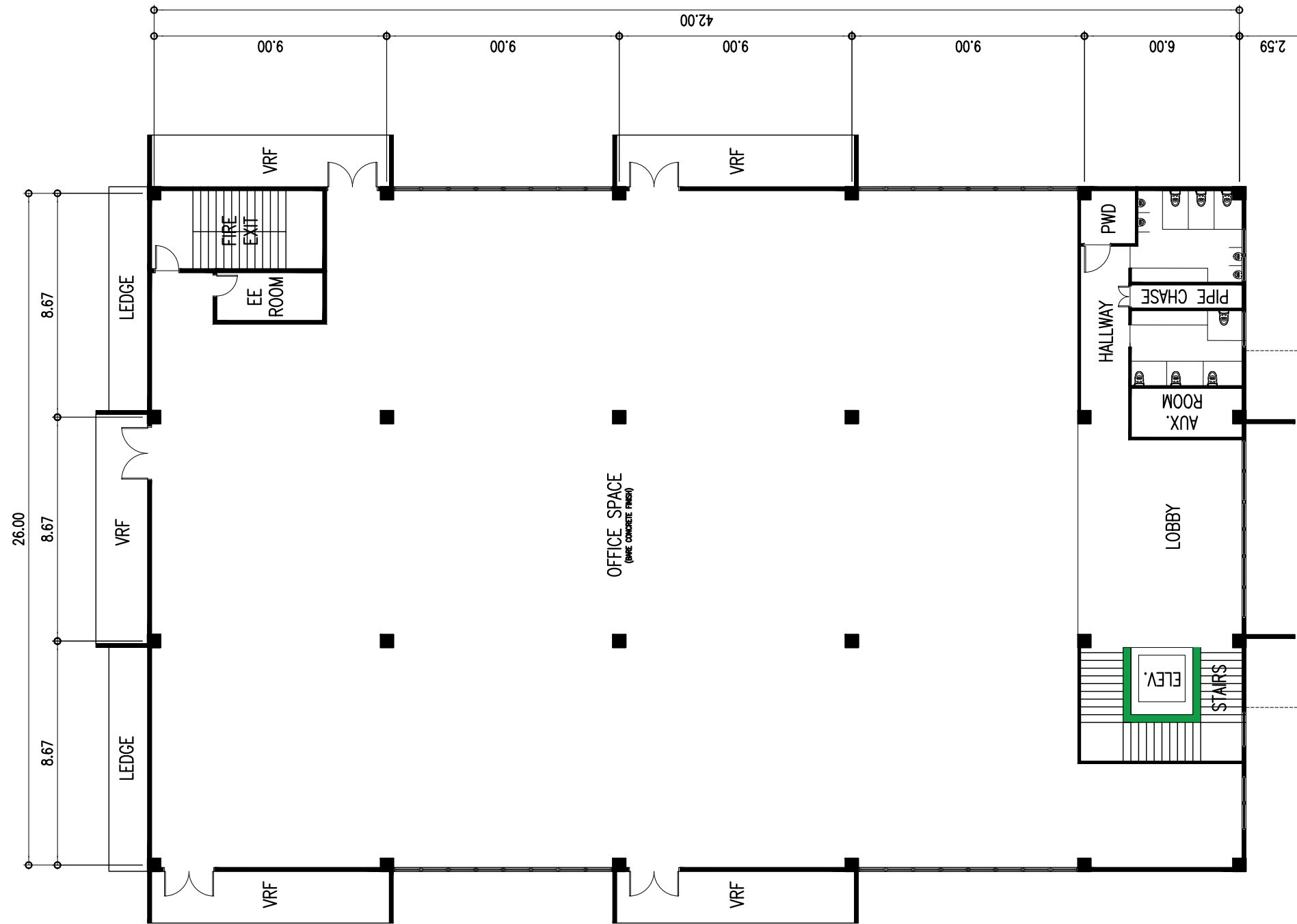
AR-002

	OWNER:	PROJECT TITLE:	CHECKED & REVIEWED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	REVISION:	PROJECT DESIGN NO.:	SHEET NO.:
	CAGAYAN ECONOMIC ZONE AUTHORITY	PROPOSED UPGRADING OF TELECOMMUNICATION FACILITIES DESIGN AND BUILD OF THREE-STOREY CEZA DATA CENTER BUILDING	ENGR. JULIAN JOVY B. GONZALES	ATTY. MARICHELLE D. DE GUZMAN	SEC. KATRINA PONCE ENRILE		2023-_____	
			Engineer V	Deputy Administrator - Operations	Administrator & Chief Executive Officer		CEZA-PDP-____	




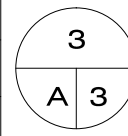
CEZA DATA CENTER
MEZZANINE FLOOR PLAN
SCALE 1:200 MTS
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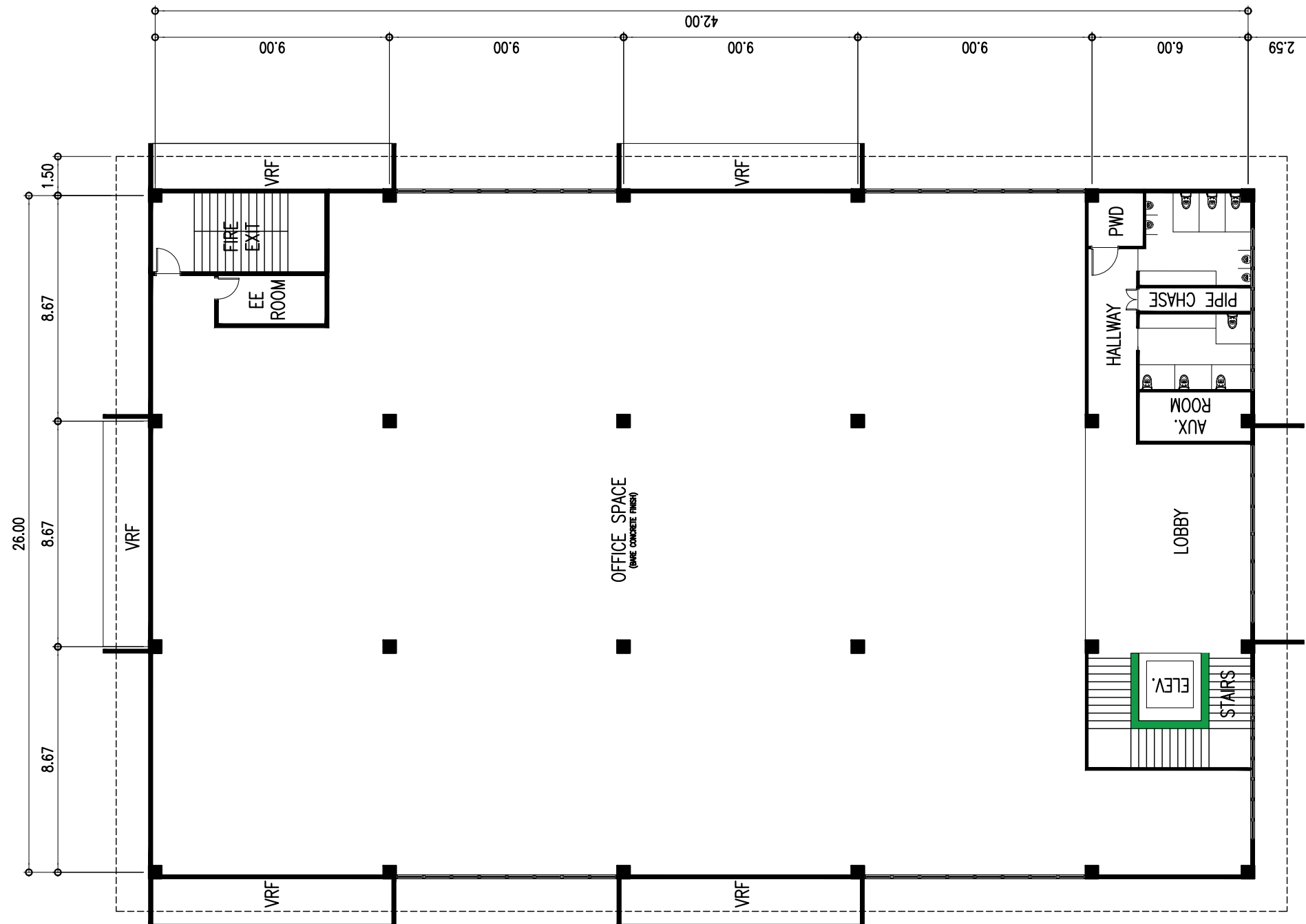
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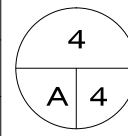
CEZA DATA CENTER
SECOND FLOOR PLAN
SCALE 1:200 MTS

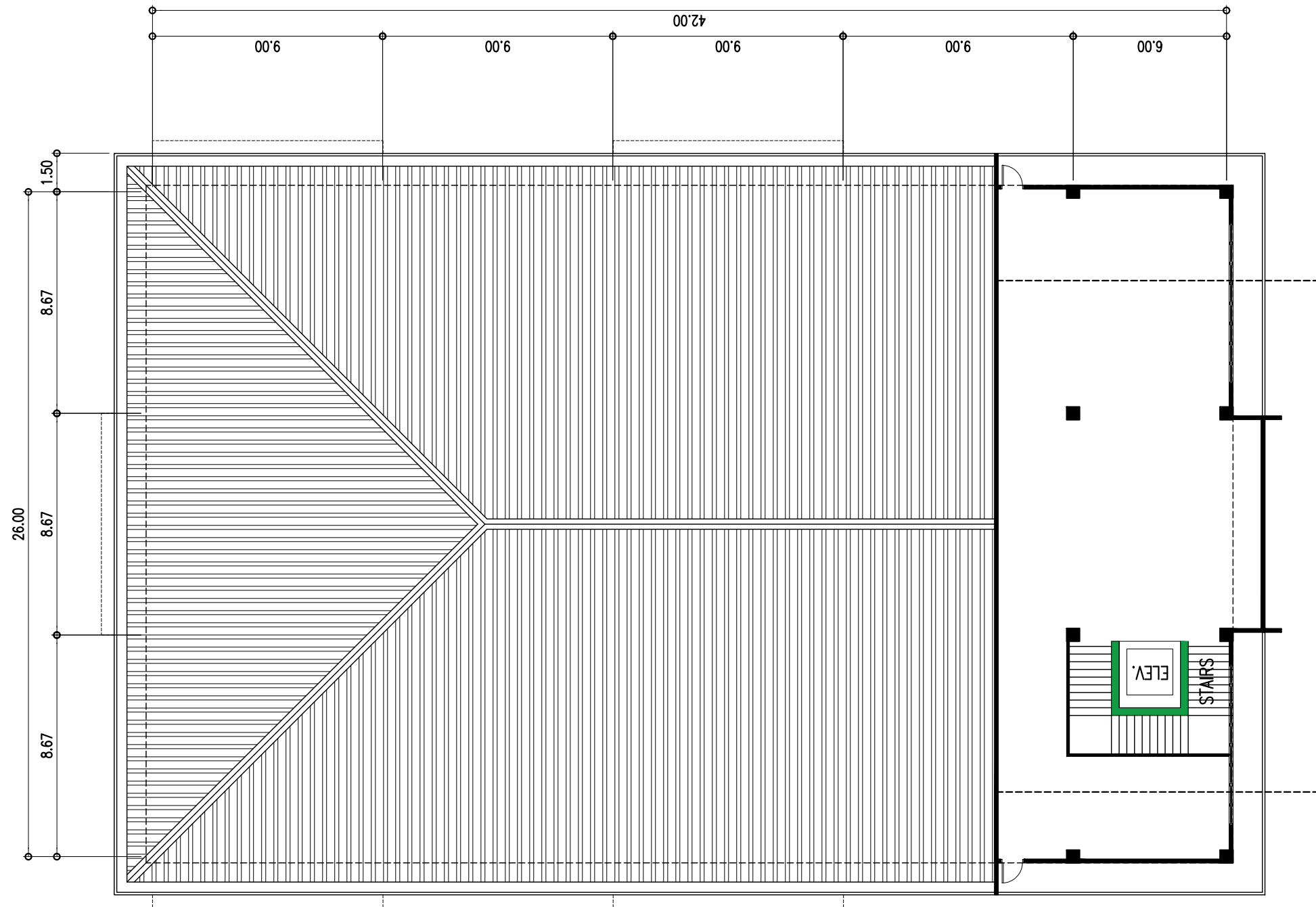
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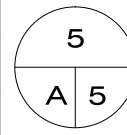


CEZA DATA CENTER
 THIRD FLOOR PLAN
 SCALE 1:200 MTS
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 AR-002

	OWNER:	PROJECT TITLE:	CHECKED & REVIEWED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	REVISION:	PROJECT DESIGN NO.:	SHEET NO.:
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CEZA DATA CENTER
 PENTHOUSE FLOOR PLAN
 SCALE 1:200 MTS
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 AR-002

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		Engineer V	Deputy Administrator - Operations	Administrator & Chief Executive Officer		CONTROL NO.:	
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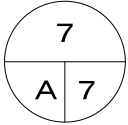
P E R S P E C T I V E

	<p>OWNER: CAGAYAN ECONOMIC ZONE AUTHORITY</p>	<p>PROJECT TITLE: PROPOSED UPGRADING OF TELECOMMUNICATION FACILITIES DESIGN AND BUILD OF THREE-STORY CEZA DATA CENTER BUILDING</p>	<p>CHECKED & REVIEWED BY: ENGR. JULIAN JOVY B. GONZALES Engineer V</p>	<p>RECOMMENDING APPROVAL: ATTY. MARICHELLE D. DE GUZMAN Deputy Administrator – Operations</p>	<p>APPROVED BY: SEC. KATRINA PONCE ENRILE Administrator & Chief Executive Officer</p>	<p>REVISION:</p>	<p>PROJECT DESIGN NO.: 2023-_____ CONTROL NO.: CEZA-PDP-____</p>	<p>SHEET NO.: 6 A 6</p>
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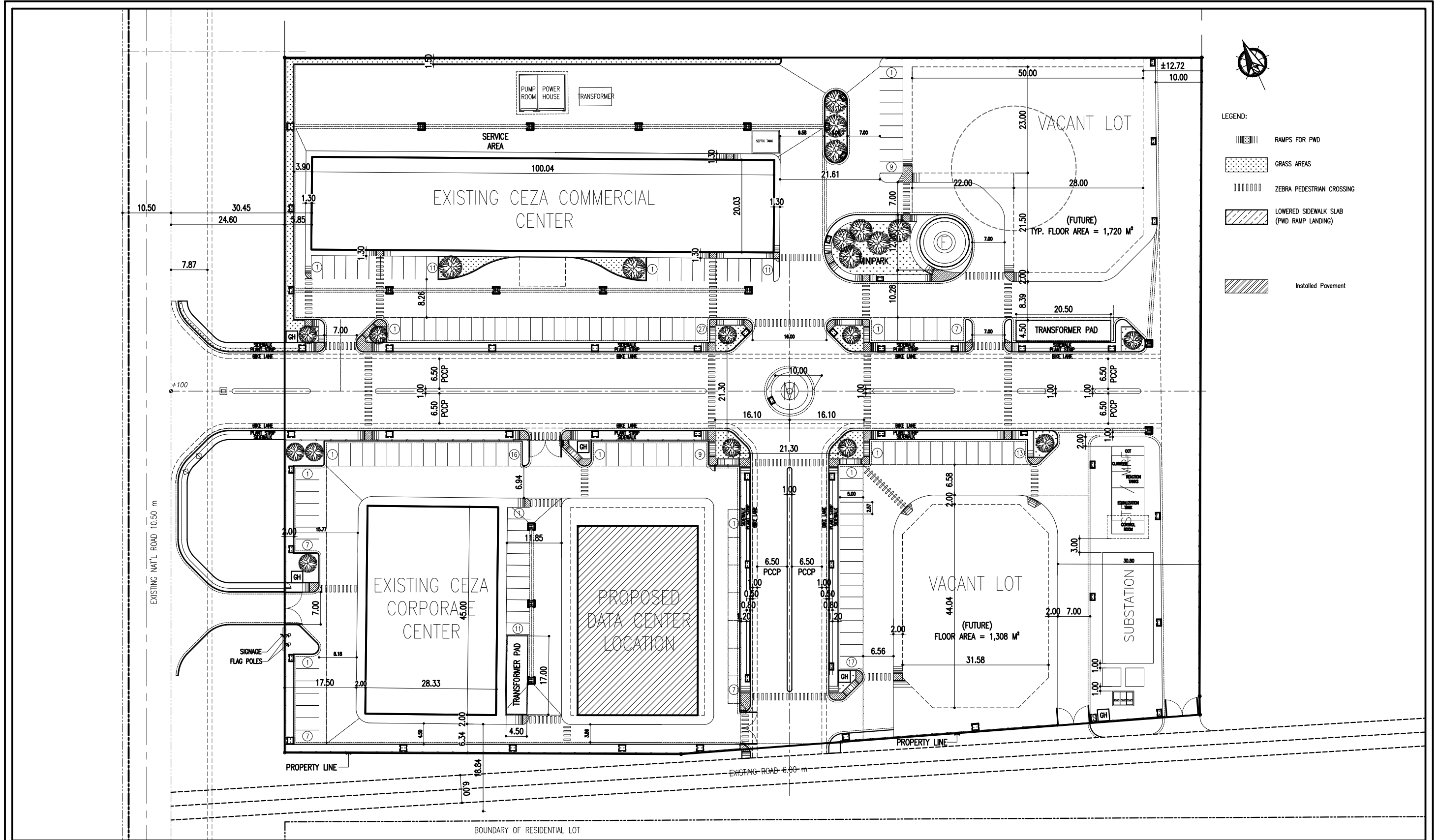
P E R S P E C T I V E

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- LEGEND:
- RAMP FOR PWD
 - GRASS AREAS
 - ZEBRA PEDESTRIAN CROSSING
 - LOWERED SIDEWALK SLAB (PWD RAMP LANDING)
 - Installed Pavement

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			Engineer V	Deputy Administrator - Operations	Administrator & Chief Executive Officer		CEZA-PDP-_____	



Republic of the Philippines
OFFICE OF THE PRESIDENT
CAGAYAN ECONOMIC ZONE AUTHORITY
CEZA Corporate Center, CEZA Business District, Centro, Sta. Ana, Cagayan

APPROVED BUDGET FOR THE CONTRACT

Name of Project: PROPOSED UPGRADING OF TELECOMMUNICATION FACILITIES DESIGN AND BUILD OF THREE STOREY CEZA DATA CENTER BUILDING

Location : CEZA BUSINESS DISTRICT, CENTRO, SANTA ANA, CAGAYAN

Contract Duration: 365 CD.

Item No.	Description	Quantity	Unit	Unit Cost	Total Cost
A: DESIGN PHASE					
1	Detailed Architectural, Engineering Design and Geotechnical Analysis		l.s.		
TOTAL DESIGN PHASE					
B: CONSTRUCTION PHASE					
PART I: GENERAL REQUIREMENTS					
B.3	Permits and Clearances		l.s.		
B.7 (2)	Occupational Safety and Health Program		l.s.		
B.9	Mobilization/ Demobilization		l.s.		
TOTAL PART I					
PART II-A: EARTHWORKS					
803(1)a	Structure Excavation Common Soil		cu.m.		
804(1)	Embankment from Structure Excavation		cu.m.		
804(1)b	Embankment from Common borrow		cu.m.		
1000(1)	Soil Poisoning		L		
804(4)	Gravel Bedding		cu.m.		
1034(1)	Damp Proofing (Polyethylene Sheets)		ln.m.		
1046	CHB Retaining Wall for Embankment Fill		sq.m.		
TOTAL PART II-A					
PART III-B: PLAIN AND REINFORCED CONCRETE					
901(1)	Lean Concrete		cu.m.		
900	Structural Concrete (Ready Mix, Class AA 28		cu.m.		
902(1)a1	Reinforcing Steel (Deformed), Grade 40		kg		
902(1)a1	Reinforcing Steel (Deformed), Grade 60		kg		
1033(1)	Metal Deck Panel		sq.m.		
TOTAL PART III-B					
PART III-C: FINISHING AND OTHER CIVIL WORKS					
1046	Parapet Wall-CHB Non-Load Bearing (inc.		sq.m.		
TOTAL PART III-C					
PART IV: FORMWORKS AND FALSEWORKS					
501(b)1	Temporary Earth Retainer		l.s.		
903(2)	Formworks and Falseworks (Rental)		l.s.		
TOTAL PART IV					
PART V: ARCHITECTURAL WORKS					
1046	CHB Non Load Bearing (including Reinforcing Steel) 150mm		Sq.m.		
1027(1)	Cement Plaster Finish		Sq.m.		
SPL-V.1	Wall Cladding (Stone Cladding)		Sq.m.		
SPL-V.2	Manufactured Wall Cladding (Fluted Wall Panel)		Sq.m.		
1008	Aluminum Window		sq.m.		
SPL-V.3	Curtain Wall and Tempered Glass Doors		sq.m.		
1032(1)a	Painting Works Masonry/Concrete		Sq.m.		
1032(1)b	Painting Works (Ficem)		Sq.m.		
1016(1)a	Waterproofing (Cement-based)		sq.m.		
1022(1)	Stucco Cement		Sq.m.		
SPL-V.4	Aluminum Composite Panel (Wood Design)		Sq.m.		
1003(1)a	4.5mm Fiber Cement Board on Metal Frame Ceiling		Sq.m.		
1018(2)	Floor Tile		Sq.m.		
1018(1)	Glazed Tiles & Trims		Sq.m.		
1006	Hollow Steel Door/Steel louver Door		sq.m.		
1046(2)1a	CHB Non Load Bearing (including Reinforcing		Sq.m.		
SPL-V.5	Supply and installation of 2"x 4" x 3mm		lnmt		
1003(1)a	Painting Works (Metal Painting)		Sq.m.		
1003(22)	Toilet Partition (12mm THK Compact Phenolic		Sq.m.		
1010(2)b	Wooden Panel Door		Sq.m.		
1010(2)a	Hollow Core Flush Door		Sq.m.		
1003(2)	4.5mm Fiber Cement Board on Metal Frame Double Wall Partition		Sq.m.		
TOTAL PART V					
PART VI: METAL AND ROOFING WORKS					

1014(1)b1	Prepainted Metal Roofing Sheet (with Accessories)	sq.m.		
1047(2)a	Structural Steel Truss	kg		
1047(2)b	Structural Steel (Purlins)	kg		
1047(6)	Metal Structure Accessories (Steel Plates)	kg		
1047(7)b	Metal Structures Accessories (Sagrod)	kg		
1047(4)	Metal Structures Accessories (Cross Bracing)	kg		
1047(3)c	Metal Structures Accessories (Turnbuckle)	each		
1013(2)	Fabricated Metal Roofing Accessories	ln.m.		
1038(1)	Reflective Insulation	sq.m.		
TOTAL PART VI				
PART VII: SITE DEVELOPMENT WORKS				
311(1)a.4	Portland Cement Concrete Pavement	sq.m.		
311(1)a.4	Driveway	sq.m.		
SPL-VII.1	Storm Drainage System	l.s.		
SPL-VII.2	Landscaping Works	l.s.		
TOTAL PART VII				
PART VIII: ELECTRICAL WORKS				
	Conduits, Conduit Fittings, Boxes, & Cable	l.s		
	Wires and Cables	l.s		
	Wiring Devices	l.s		
	Lighting Fixtures	l.s		
	Supply and Installation of Breakers, Power Panels,	l.s		
	Supply and Installation of 500KVA Transformer and	l.s		
	Supply and Installation of 500KVA Standby Genset	l.s.		
	Lightning Arrester and Grounding System	l.s		
TOTAL PART VIII				
PART IX: ELECTRONICS AND AUXILARY WORKS				
	Addressable Fire Detection and Alarm System	l.s		
	Public Address System	l.s		
TOTAL PART IX				
PART X: MECHANICAL WORKS				
SPL-X.1	HVAC System			
	Ventilation and Air-conditioning System (Common Areas and other rooms)	l.s		
SPL-X.2	Fire Protection System			
	Sprinkler System	l.s		
SPL-X.3	Elevator System	l.s		
TOTAL PART X				
PART XI: PLUMBING AND SANITARY WORKS				
SPL-XI.1	Septic Vault	l.s.		
SPL-XI.2	Cistern Tank and Fire Tank (Concrete, Class AA)	l.s.		
SPL-XI.3	Plumbing fixtures, Water Distribution System and	l.s.		
TOTAL PART XI				
PART XII: PROVISIONAL WORKS FOR DATA CENTER				
	Supply, Delivery and Installation of Raised Floor	Sq.m.		
	Supply and Installation of Wires and Cables	lot		
	Conduits, Conduit Fittings, Boxes, & Cable Ladder/Tray	ls		
	Lighting Fixture and Wiring Devices	ls		
	Power Panels	ls		
	IP CCTV System	ls		
	Access Control System	l.s		
	42U Data Cabinet with basic PDU	sets		
	Cable trays and Wire ways	l.s		
TOTAL PART XII				
TOTAL CONSTRUCTION PHASE				
TOTAL				