

PHILIPPINE BIDDING DOCUMENTS

Government of the Republic of the Philippines
UNIVERSITY OF THE PHILIPPINES CEBU

Construction and Professional Services: UPC Data Center

*ABC = Eight Million Nine Hundred Ninety Two
Thousand Five Hundred Forty Two Pesos and Forty
Three Centavos
(Php 8,992 ,542.43)*



**Sixth Edition
July 2020**

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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.



University of the Philippines Cebu

Section I. Invitation to Bid

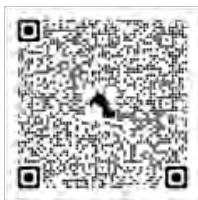
Invitation to Bid for the *Construction and Professional Services: UPC Data Center*

1. The *University of the Philippines Cebu*, through the *GAA 2025* intends to apply the sum of ***Eight Million Nine Hundred Ninety Two Thousand Five Hundred Forty Two Pesos and Forty Three Centavos (₱8,992,542.43)*** being the Approved Budget for the Contract (ABC) to payments under the contract, ***Construction and Professional Services: UPC Data Center*** with contract ID *I-2025-002*. Bids received in excess of the ABC shall be automatically rejected at bid opening.
2. The *University of the Philippines Cebu* now invites bids for the above Procurement Project. Completion of the Works is required in ***150 (One Hundred Fifty)*** calendar days for the ***Construction and Professional Services: UPC Data Center***. 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.
4. Interested bidders may obtain further information from *University of the Philippines Cebu* and inspect the Bidding Documents at the address given below from ***8:00 AM – 12:00 NN, 1:00 PM – 5:00 PM***.
5. A complete set of Bidding Documents may be acquired by interested bidders on ***May 19, 2025*** 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 ***Ten Thousand Pesos (₱10,000.00)***. The Procuring Entity shall allow the bidder to present its proof of payment for the fees *in person or through email on or before the deadline for submission of bids*.
6. The *University of the Philippines Cebu* will hold a Pre-Bid Conference on ***May 28, 2025 at 10:00AM*** at the *UP Cebu BAC Office Ground Flr. College of Science Building* and/or through videoconferencing/webcasting via Zoom Meeting ID: 963 3834 4835 PW: *UPCBACPreB* which shall be open to prospective bidders.
7. Bids must be duly received by the BAC Secretariat through manual submission at the office address as indicated below, on or before ***June 11, 2025 10:00AM***. Late bids shall not be accepted.

8. All bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB** Clause 16.
9. Bid opening shall be on **June 11, 2025 10:00AM** at the given address below UP Cebu BAC Office, Ground Flr. College of Science Bldg. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity face to face or via Zoom Meeting ID: 983 9167 8737 PWD: UPCBACOpen
10. ***Bidders are required to submit electronic file of the scanned copy of their bid in a flash drive to be submitted together with their bid inside the bid envelope. They are also required to do ocular inspection of the site and secure a certificate of site inspection signed by the Office of the Campus Architect to be attached to their bid docs.***
11. The *University of the Philippines Cebu* 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.
12. For further information, please refer to:

*GiNESSA Rupinta
BAC Secretariat Chair
Bids and Awards Committee
UP Cebu, Lahug, Cebu City
bac_sec.upcebu@up.edu.ph
(032) 232-8187 loc 316*
13. You may visit the following websites:

For downloading of Bidding Documents:



May 15, 2025

*Lorel S. Dee, M.D.
BAC Chair*

Section II. Instructions to Bidders

1. Scope of Bid

The Procuring Entity, *the University of the Philippines Cebu* invites Bids for the ***Construction and Professional Services: UPC Data Center***, with Project Identification Number **I-2025-002**.

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 **2025** in the amount of ***Eight Million Nine Hundred Ninety Two Thousand Five Hundred Forty Two Pesos and Forty Three Centavos (₱8,992,542.43)***.

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 an 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 allowed. The portions of Project and the maximum percentage allowed to be subcontracted are indicated in the **BDS**, which shall not exceed fifty percent (50%) of the contracted Works.

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

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

8. Pre-Bid Conference

The Procuring Entity will hold a pre-bid conference for this Project on the specified date and time and either at its physical address UP Cebu BAC Office, Ground Flr. College of Science Bldg and/or through videoconferencing/webcasting as indicated in paragraph 6 of the **IB**.

9. Clarification and Amendment of Bidding Documents

Prospective bidders may request for clarification on and/or interpretation of any part of the Bidding Documents. Such requests must be in writing and received by the Procuring Entity, either at its given address or through electronic mail indicated in the **IB**, at least ten (10) calendar days before the deadline set for the submission and receipt of Bids.

10. Documents Comprising the Bid: Eligibility and Technical Components

- 10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section 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 **October 9, 2025**. 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 copy of the first and second components of its Bid.

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

If the Procuring Entity allows the submission of bids through online submission 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

ITB Clause																						
1.1	<p>The Procuring Entity is <i>University of the Philippines Cebu</i>.</p> <p>The name of the Contract is <i>Construction and Professional Services: UPC Data Center</i>.</p> <p>The identification number of the Contract is <i>I- 2025-002</i></p>																					
2	<p>The Funding Source is:</p> <p>The Government of the Philippines (GoP) through <i>GAA 2025</i> in the amount of <i>Eight Million Nine Hundred Ninety Two Thousand Five Hundred Forty Two Pesos and Forty Three Centavos (₱8,992,542.43)</i>.</p> <p>The name of the Project is <i>Construction and Professional Services: UPC Data Center</i>.</p>																					
3.1	No further instructions.																					
5.1	No further instructions.																					
5.2	<p>Bidding is restricted to eligible bidders as defined in ITB Clause 5.1.</p> <p>For this purpose, contracts similar to the Project refer to contracts which have the same major categories of work, which shall be:</p> <p><i>Construction of communications or IT facility</i></p>																					
5.4(a)	No further instructions.																					
5.4 (b)	For this purpose, similar contracts shall refer to contracts which have the same major categories of work in the last two years																					
8.1	<i>Subcontracting may be allowed.</i>																					
10.3	<i>PCAB license must be at least: Medium A category B special PCAB license for Communication facilities /IT</i>																					
10.4	<p><u>For Lot 1</u></p> <table><tr><td><u>Key Personnel</u></td><td><u>General Experience</u></td><td><u>Relevant Experience</u></td></tr><tr><td><i>Project Engineer</i></td><td><i>5 years</i></td><td><i>same</i></td></tr><tr><td><i>Site engineer or Foreman</i></td><td><i>5 years</i></td><td><i>same</i></td></tr><tr><td><i>Safety Officer</i></td><td><i>5 years</i></td><td><i>same</i></td></tr><tr><td><i>Architect</i></td><td><i>5 years</i></td><td><i>same</i></td></tr><tr><td><i>Electrical Engineer</i></td><td><i>5 years</i></td><td><i>same</i></td></tr><tr><td><i>ECE</i></td><td><i>5 years</i></td><td><i>same</i></td></tr></table> <p>For Lot 2 (requirements are specified in the TOR)</p>	<u>Key Personnel</u>	<u>General Experience</u>	<u>Relevant Experience</u>	<i>Project Engineer</i>	<i>5 years</i>	<i>same</i>	<i>Site engineer or Foreman</i>	<i>5 years</i>	<i>same</i>	<i>Safety Officer</i>	<i>5 years</i>	<i>same</i>	<i>Architect</i>	<i>5 years</i>	<i>same</i>	<i>Electrical Engineer</i>	<i>5 years</i>	<i>same</i>	<i>ECE</i>	<i>5 years</i>	<i>same</i>
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<i>Site engineer or Foreman</i>	<i>5 years</i>	<i>same</i>																				
<i>Safety Officer</i>	<i>5 years</i>	<i>same</i>																				
<i>Architect</i>	<i>5 years</i>	<i>same</i>																				
<i>Electrical Engineer</i>	<i>5 years</i>	<i>same</i>																				
<i>ECE</i>	<i>5 years</i>	<i>same</i>																				

10.5	<p>The minimum major equipment requirements are the following:</p> <table><tr><td><u>Equipment</u></td><td><u>Capacity</u></td><td><u>Number of Units</u></td></tr><tr><td>Welding machine</td><td></td><td>at least 1</td></tr><tr><td>Steel cutting machine</td><td></td><td>at least 1</td></tr></table>	<u>Equipment</u>	<u>Capacity</u>	<u>Number of Units</u>	Welding machine		at least 1	Steel cutting machine		at least 1
<u>Equipment</u>	<u>Capacity</u>	<u>Number of Units</u>								
Welding machine		at least 1								
Steel cutting machine		at least 1								
12.0	<i>No further instructions.</i>									
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> <p>a. The amount of not less than <i>One hundred seventy nine thousand eight hundred fifty pesos and eight centavos (₱179,850.08</i> if bid security is in cash, cashier’s/manager’s check, bank draft/guarantee or irrevocable letter of credit;</p> <p>b. The amount of not less than <i>Four hundred forty nine thousand six hundred twenty seven pesos and twelve centavos (₱449,627.12)</i> if bid security is in Surety Bond.</p>									
19.2	Partial bid is not allowed.									
20	<i>No further instructions.</i>									
21	<p>Additional contract documents relevant to the Project that may be required by existing laws and/or the Procuring Entity, The following documents shall also be submitted together with the bid.</p> <p>A. The bidder’s proposed</p> <ul style="list-style-type: none">• <i>Program of Works</i>• <i>Work Schedule</i>• <i>Bill of Quantities / Detailed Cost Estimates</i>• <i>Manpower Schedule</i>• <i>Plans/ Drawings (if any)</i>• <i>Construction Safety and Health Program/Plan (to be submitted to DOLE for approval prior to contract implementation)</i> <p>B. Certificate of site inspection signed by OCA</p>									

Section IV. General Conditions of Contract

1. Scope of Contract

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

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

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

Special Conditions of Contract

GCC Clause	
2	<i>No further instructions</i>
4.1	<i>150 calendar days after receipt of NTP</i>
6	The site investigation reports are: <i>none</i>
7.2	Five (5) years warranty
10	No dayworks are applicable to the contract.
11.1	The Contractor shall submit the Program of Works to the Procuring Entity's Representative within <i>five (5)</i> 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 1%.
13	<p>The amount of the advance payment is <i>15% of the total contract price and payments shall be made through accomplishment progress billing by the contractor as confirmed by the OCA</i></p> <p><i>The advance payment shall be made only upon the submission to and acceptance by the procuring entity of an irrevocable standby letter of credit of equivalent value from a commercial bank, a bank guarantee or a surety bond callable upon demand, issued by a surety or insurance company duly licensed by the Insurance Commission and confirmed by the procuring entity. (Sec 4.2 Annex E of the 2016 IRR RA9184)</i></p>
14	Materials and equipment delivered on the site but not completely put in place shall be included for payment.
15.1	The date by which "as built" drawings are required is prior to issuance of Certificate of Completion.
15.2	The amount to be withheld for failing to produce "as built" drawings and/or operating and maintenance manuals by the date required is <i>1% of contract amount.</i>

Section VI. Specifications

LOT 1. CONSTRUCTION OF 2-STOREY DATA CENTER (PHASE 2)

PROJECT TITLE : PROPOSED 2-STOREY DATA CENTER (PHASE 2)
LOCATION : UP CEBU, LAHUG, CEBU CITY
SUBJECT : COST ESTIMATE AND SCOPE OF WORKS
DURATION : 150 CALENDAR DAYS
ABC **P7,792,866.23**

SCOPE OF WORK :

General:

The work to be executed consists of all materials, equipment and labor, except as herein specified; and, in performing all work to be completed in accordance with the specifications schedules and plans, which are made as integral parts thereof, including much detailed drawings as may be furnished from time to time during the execution of Work.

The "Phase 1" for this project is ongoing. The Contractor must work closely and coordinate with the contractor of Phase 1

- 1 Staking out of building, establishment of lines, grades and benchmarks.
- 2 Protection of Property, work and structures, workmen and other people from damage and injury.
- 3 Stake out accurately the lines of the building and of the other structures included in the contract and established grades therefore, after which secure approval from the Architect before any excavation work is commenced.
- 4 Erect basic batter boards and basic reference marks at such places where they will not be disturbed during the construction of the foundations.
- 5 **Structural Excavations - must be in accordance to established grade but if the required safe soil bearing capacity is not obtained at the elevation indicated in the plans, the excavation shall be continued until such safe bearing capacity is obtained. Footings and pedestals must be adjusted accordingly.**
- 6 **Filling and Backfilling** - After forms have been removed from footing/foundations and when concrete is hard to resist pressure resulting from fill, backfilling may then be done. Materials excavated may be used for backfilling. All filling shall be placed in layers not exceeding six (6) inches in thickness, each layer being thoroughly compacted and rammed by wetting, tamping and rolling. Including soil poisoning.
- 7 **Placing and Compacting Fill**
Common Fill - shall be approved site-excavated material free from roots, stumps and other perishable or objectionable matter
Select Fill - shall be placed where indicated and shall consist of crushed gravel, crushed rock, or a combination thereof. The material shall be free from adobe, vegetable matter and shall be thoroughly tamped after placing.
Before placing fill material, the surface upon which it will be placed shall be cleared of all brush roots, vegetable matter and debris, scarified and thoroughly wetted to insure good bonding between the grounds.
- 8 **Disposal of Surplus Materials - Removed construction trash and unusable materials will be hauled and discarded outside UP Cebu Lahug Campus (as per contractor choice of dumpsite)**
- 9 **Concrete and Reinforcement - Unless otherwise specified herein, concrete work shall conform to the requirements of the NSCP. Full cooperation shall be given other trades to install embedded items. Provisions shall be made for setting items not placed in forms. Before concrete is placed, embedded items shall have been inspected and tested.**
- 10 **Forms and Scaffolding - Forms shall conform to the shape, line and dimensions of the concrete structures as reflected on the plans. Forms shall be substantial and sufficiently tight to prevent leakage of water.**
Forms and shorings shall not be disturbed and shall remain in place for a minimum period of time required for curing of reinforced concrete as required by the National Building Code.
- 11 **Metal Works - supply and install metal works for Stairs, Landings, Railings, PWD Toilet and ACCU Support.**
- 12 **Specialty Works**
12.1. Supply, layout and installation of used 40 foot High Cube Reefer Container Van on site.
The contractor shall repair noticeable defects of the used contained van and provide waterproofing if necessary.
12.2. Supply and install UP Cebu & Data Commons Acrylic Signage - W1715mm X H700mm X D50mm
12.3. Supply and install Furnitures
12.4. Vegetation surrounding MRF - supply & plant Thai Bamboo
12.5. Supply of HCFC-123 Fire Extinguisher 20 lbs.
- 13 **Carpentry and Joinery Work** - supply and install drywall with rockwool insulation and ceiling for the Project

- Secure work to grounds; otherwise fasten in position to hold correct surfaces, lines and levels.
Make finished work flat, plumb and true.
- 14 **Thermal and Moisture Protection**
Walls - supply and install Rock Wool Insulation for drywall partitions.
Roof - supply and install main roof for the Project. Lapping, strapping, rivetting, soldering and counter flashing shall be done in the most approved method and practices of the trade.
- 15 **Doors - supply and install Doors & Windows for the Project.**
- 16 **Finishes**
Exterior Walls - supply and paint exterior walls.
Interior Walls - supply and paint interior Walls of Data Center Area, MDF Room and Storage Room partition.
Ceiling - supply and paint interior Walls.
Floor - supply and install Rubberized Linoleum for interior areas & Epoxy Coating for Corridor.
- 17 **Plumbing** - supply and install Sanitary & Storm Drainage System, Water Supply Lines and Plumbing Fixtures, Accessories & Appurtenances. All Work shall be done under direct supervision of a licensed Master Plumber and in strict accordance with the methods as prescribed National Plumbing Code of the Philippines.
- 18 **Electrical**
Enclosed Circuit Breaker supply & installation.
ATS Panel and Wiring supply & installation.
MDP Panel and Wiring supply & installation.
Roughing-in layout supply & installation for embedding and exposed piping.
Lighting Fixtures supply & installation.
Device Fixtures supply & installation.
Wiring and Cable pulling for Lighting Fixtures and Devices
Panel boards supply & installation
Chipping works if necessary and compliance to complete the scope of works.
Provide safety precaution during installation.
- 19 **Mechanical**
Aircon supply & installation.
Roughing-in layout supply & installation for embedding and exposed piping.
Provide safety precaution during installation.
- 20 **Electronics**
Device Fixtures supply & installation.
Smoke Detector supply & installation.
Roughing-in layout supply & installation for embedding and exposed piping.
Cable pulling for Devices.
Chipping works if necessary and compliance to complete the scope of works.
Provide safety precaution during installation.
- 21 Provide Project sign Board as per requirement by COA.
- 22 All exposed work shall be protected while the building is being renovated.
The ceiling, the walls and all other surfaces not to be renovated shall be well protected during construction by sufficient covers.
Any stains, dirt, smears and other imperfections shall be removed by the Contractor to the satisfaction of the Architect.
- 23 Structure affected during work but not included in their scope of work should be repaired back to the original features. (Paint, etc.)
- 24 Removed construction trash and unusable materials will be hauled and discarded outside UP Cebu Lahug Campus (as per contractor choice of dumpsite)
- 25 Housekeeping must be done daily.
- 26 Clearing, Housekeeping and handover.
- 27 Any imperfections in the Scope of Work done by the Contractor shall be rectified

SPECIFICATIONS :

- 1 Refer to plans for the new location of the MRF.
- 2 **Concrete and Reinforcement** - Refer to plans and specifications of Structural Designer.
 - 2.1. Cement for general concrete work shall be type 1 Portland cement conforming to ASTM C150 "Specifications for Portland Cement". Cement shall be stored in moisture proof silos or sheds.
 - 2.2. Coarse Aggregates shall be either natural gravel or crushed rock conforming to the "Specifications for Concrete Aggregates" – Latest issue, ASTM C33. The maximum size of aggregates shall not be larger than one-fifth (1/5) of the narrowest dimensions between sides of the forms within which the concrete is to be cast nor larger than three-fourth (3/4) of the minimum clear spacing between reinforcing bars or between reinforcing bars and forms.
Fine aggregates shall be beach or river sand conforming to ASTM C33
 - 2.3. Concrete Aggregates". Sand particles shall be coarse, sharp, clean – free from salt, dust, loam, dirt and all foreign matter.
 - 2.4. Class A mixture shall be used for all concrete columns, footings, reinforced concrete beams

- and shall develop full strength in 28 days or as specified in structural computations, whichever is higher.
- 3 **Forms and Scaffolding**
 3.1. Forms shall conform to the shape, line and dimensions of the concrete structures as reflected on the plans.
 3.2. Forms shall be substantial and sufficiently tight to prevent leakage of water.
 3.3. Forms and shorings shall not be disturbed and shall remain in place for a minimum period of time required for curing of reinforced concrete as required by the National Building Code.
 3.4. Forms shall be 3/8" or 1/2" thick plywood painted with an approved form of primer. Used motor oil will not be allowed.
- 4 **Metal Works**
 Steel Stair - access to 2nd Floor (refer to BOQ)
 Handrail for Stairs - 50mmx50mm S/S Tubular Handrails
 Railings for 2nd Floor Stair Landing - 50mmx50mm S/S Tubular Handrail
 Column Post for Stairs - GI Pipe, 3", Sch40, Seamless
 Handrail for PWD Ramp - 50mmx50mm S/S Tubular Handrail
 Metal Works for PWD Toilet (refer to BOQ)
 ACCU Support - 4mm Thk. 2" x 2" x 6m Angle Bars
- 5 **Specialty Works**
 The contractor shall repair noticable defects of the used contained van and provide waterproofing if necessary.
 5.1. Supply, layout and installation of used 40 foot High Cube Reefer Container Van on site.
 The contractor shall repair noticable defects of the used contained van and provide waterproofing if necessary.
 5.2. Supply and install UP Cebu & Data Commons Acrylic Signage - W1715mm X H700mm X D50mm
 5.3. Supply and install Furnitures
 Swivel Clerical Chair w/ Armrest, Fabric seat & back, PVC armrest & starbase
 Freestanding Table for offices - L120cm x W60cm x H75cm, MFC table, Bullnose edge w/ Pencil Drawer
 Table (for lounge) - L80cm x W80cm x H75cm
 Freestanding Table (for lounge) - L160cm x W60cm x H75cm, MFC table, Bullnose edge, steel legs
 Stackable Chair (for lounge) - Plastic seat & back (Black), Chrome Frame
 Base Cabinet (supply & install) - for Pantry, L90cm x W56cm x H85cm
 Hanging Cabinet (supply & install) - for Pantry, L90cm x W33cm x H72cm
 Vegetation surrounding MRF - supply & plant Thai Bamboo
 5.4. Vegetation surrounding MRF - supply & plant Thai Bamboo
 5.5. Supply of HCFC-123 Fire Extinguisher 20 lbs.
- 6 **Carpentry and Joinery Work** - supply and install drywall with rockwool insulation and ceiling for the Project.
 Secure work to grounds; otherwise fasten in position to hold correct surfaces, lines and levels.
 Make finished work flat, plumb and true.
 Walls - 9mm thk. Gypsum Board on 0.5mm Thk. Carrying Channel 12mm x 38mm w/ rockwool insulation
 Ceiling - 9mm thk. Gypsum Board on 0.5mm Thk. 19mm x 50mm Double Furring
- 7 **Thermal and Moisture Protection**
 Walls - supply and install Rock Wool Insulation for drywall partitions.
 Roof - supply and install main roof for the Project. Lapping, strapping, rivetting, soldering and counter flashing shall be done in the most approved method and practices of the trade.
- 8 **Doors & Windows**
 UPVC w/ Glass Door, complete w/ Hardware & Accessories
 PVC Door w/ Door Jamb, complete w/ Hardware & Accessories
 Sliding Glass Windows complete w/ Hardware & Accessories
 Awning Glass Windows complete w/ Hardware & Accessories
- 9 **Finishes**
 Exterior Walls - Arcylic Semi-Gloss Latex Paint (2 coats)
 Interior Walls - Interior Primer (1 coat) & Arcylic Semi-Gloss Latex Paint (1 coat)
 Ceiling - Interior Primer (1 coat) & Arcylic Semi-Gloss Latex Paint (1 coat)
 Floor - Rubberized Linoleum Sheet bonded on floor with Premium Contact Cement
 Provide proper surface preparation prior to installation of finishes and painting.
- 10 **Plumbing - supply and install Storm Drainage System w/ rainwater tank. All Work shall be done under direct supervision of a licensed Master Plumber and in strict accordance with the methods as prescribed by the National Plumbing Code of the Philippines.**
 The Contractor shall provide catch basins as shown on detail drawings of the proper sizes as to facilitate effective drainage and cleaning. All connections of storm drain lines outside building Drainage pipes shall be laid true to lines and grades as shown on drawings. Any pipe that has the grade or joint disturbed after laying shall be taken out and relaid.
- 11 **Electrical**
 11.1. The Contractor shall furnish all materials, labor, plant, tools, equipment and other services and perform all operations necessary for the complete installation of the Electrical System for the Project in accordance with the drawings and specifications. All electrical work shall be done under the direct supervision of a licensed Electrical Engineer

11.2. All materials to be used shall be new and of the approved type for the location and purpose.

11.3. Chipping works if necessary and compliance to complete the scope of works.

11.4. Provide safety precaution during installation.

12 Mechanical

12.1. The Contractor shall furnish all materials, labor, plant, tools, equipment and other services and perform all operations necessary for the complete installation of the Mechanical System for the Project in accordance with the drawings and specifications. All electrical work shall be done under the direct supervision of a licensed Electrical Engineer

12.2. The Contractor shall guarantee that the mechanical system is free from all defective workmanship and materials.

12.3. The Contractor at his own expenses shall remedy any defect mechanical system

13 Electronics

13.1. Under this Division and together with the specifications, provide all materials and equipment and perform all the work necessary for the complete execution of the system shown on the drawings with reference to the general construction drawings as herein specified.

13.2. Chipping works if necessary and compliance to complete the scope of works.

13.3. Provide safety precaution during installation.

13.4. Smoke Detector supply & installation.

CLIENTS DIRECTION :

- 1 Construction must be in accordance with the safe methodology and safety standards.
- 2 Removal of Existing Architectural Components, Mechanical & Electrical fixtures must be in accordance with the safe methodology and safety standards.
- 3 Working at heights above 1.70m shall provide safety harness with double lanyard and properly hooked to lifeline.
- 4 Removed construction trash and unusable materials will be hauled and discarded outside UP Cebu Lahug Campus (as per contractor choice of dumpsite)
- 5 Structure affected during work but not included in their scope of work should be repaired back to the original features. (Paint, etc.)
- 6 Housekeeping must be done daily.
- 7 Prepare material approval request prior to material procurements.
- 8 Request for inspection must be requested on all activities.
- 9 Submit Method statement on all important activities.
- 10 Provide safe access for inspection.
- 11 Comply and follow all the rules and regulation of the UP Cebu Lahug Campus.
- 12 Strictly implement maximum construction safety standards at all times

Note:

- * Power and water consumption must be paid by the contractor.
- * Handtools and minor equipment will be provided by the contractor.
- * Provide Scaffolding or any for safe access to roof and working at heights

PREPARED BY:

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ENDORSED:



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Senior Engineering Associate

ENDORSED:

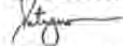
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LOT 2. PERMITS AND LIABILITY

TERMS OF REFERENCE

BACKGROUND

The basis of the Project is the recent BOR approved UP Cebu LUDIP. The project will be a construction of the UP Cebu Data Commons and IT Hub that will house the Server Room for Data Commons, ITC Infra Team & ITC Data Management Team.

The General Scope of the work are the following:

1. Process necessary permits for the building. The permit process involves ensuring all necessary documentation, approvals, and legal requirements are provided and met.
2. Payment of fees. The payment of fees for permitting refers to the various costs associated with obtaining the necessary approvals and authorizations from local or regional authorities to begin construction or perform specific activities related to a building project.
3. The Consultant must review the comprehensive plans, ensuring that all architectural, structural, mechanical, electrical, electronics and plumbing designs align with local building codes and regulations. This includes verifying the integrity of the design, identifying potential issues related to materials or systems, and confirming that all safety standards and sustainability practices are met. The consultant must also assess the feasibility of construction within the proposed budget and timeline, recommending adjustments or improvements where necessary.
4. The Consultant must work closely with the contractor of ITC Hub Phase 1 and the project management team to ensure alignment on timelines, deliverables, and quality standards. The consultant will assist in the review and approval of technical designs, provide expert guidance on project implementation, and ensure that all aspects of the project are progressing as per the agreed-upon specifications and milestones.
5. Take up liability for the project. Becoming the **Professionals-of-Record** for the architectural, structural, mechanical, electrical, electronics and plumbing designs of the project, involving assumption of significant legal and professional responsibility. As the Professional of Record, they are the licensed professional responsible for ensuring that the project complies with all applicable building codes, regulations, and standards, as well as for overseeing the integrity of the design and its execution throughout construction

I. BASIC INFORMATION OF THE PROJECT

- | | | |
|-----|------------------|---|
| I.1 | Site | : UP Cebu - Lahug Campus, Gorordo Avenue, Cebu City |
| I.2 | Type of Building | : 2-Storey Office Building w/ Server Room |

I.3 Floor Area :

- Ground Floor = 129.11 m²
- Second Floor = 92.83 m²

GROSS FLOOR AREA = 221.94 m²

I.4 ABC for this consultancy service:
 Php 1,199,676.20 for the whole structure including the production of Plans and Documents and process of detailed building documentation/permits.

Php 1,199,676.20 (TOTAL ABC for Consulting Services)

TABLE 1. SPACE PROGRAM (SEE PLAN)

UP Cebu Data Commons and IT Hub			
SPACE/ROOM	DETAILS	GROSS AREA	NO. OF ROOMS
A. Ground Floor			
Server Room (Data Center)	Will serve as housing for the Server of Data Commons	46.53 sqm	1
Lounge	Will serve as common space for staff/employees and will house the MDF	29.20 sqm	1
Genset Area	Space allocated for Genset, includes housing and genset pad	17.48 sqm	1
PWD Toilet	Common Toilet with PWD features	4.83 sqm	1
Lobby	Serve as receiving area or lobby from the access points	13.46 sqm	1
Entryway	Serve as entry for the building and access to 2 nd Floor stairs	6.24 sqm	1

Stairs	Access from Ground Floor to 2 nd Floor	5.90 sqm	1
Ramp	PWD Ramp access from to Ground Floor	5.46 sqm	1
B. Second Floor (Offices)			
Data Management Team Office	Office allocated for ITC Data Management Team	38.06 sqm	1
Common Conference Room	Space allocated for meeting and discussion	19.47 sqm	1
Infrastructure Team Office	Office allocated for ITC Infrastructure Team	27.06 sqm	1
Lobby	2 nd Floor entrance lobby, access to offices	4.57 sqm	1
Entryway	Serves as access from Stairs to 2 nd Floor	3.66 sqm	1

- For Electrical upgrade and power
- Auxiliary Facilities Needed
 - Site development plan
 - Fire escape and signage
 - Fire Detection and Alarm System
 - Heat and Smoke sensors
 - Annunciator
 - Heating, Ventilation and Air-conditioning
 - Internet and Communication Facilities for all rooms
 - Paging system, LAN, CCTV
 - Grid-tie or Hybrid Solar System (Lithium Battery) for Primary energy use whichever is applicable.
- Building Documentation (Architectural Documentation)

BRIEF GENERAL SCOPE OF WORKS:

The Consultant is given **150 Calendar Days (Maximum)** to prepare and submit the documents needed for construction and other documents needed for permits from other government agencies for the Proposed UP Cebu Data Commons and IT Hub.

II. PROJECT TIMETABLE

- II.1 TIME FRAME. The period for the ARCHITECTURAL AND ENGINEERING DESIGN CONSULTANT's services is expected to be **150 Calendar Days** excluding periods used during construction.
- II.2 The schedule of submissions for ARCHITECTURAL AND ENGINEERING DESIGN Documentation shall be implemented following the scheme in Table 4.
- II.3 Bidding and Construction activities shall proceed thereafter.

III. CONSULTANT QUALIFICATION

- III.1 The ARCHITECTURAL AND ENGINEERING (A&E) DESIGN CONSULTANT shall be:
 - III.1.1 A firm/company providing DETAILED ARCHITECTURAL AND ENGINEERING DESIGN services, duly registered with the Security and Exchange Commission (SEC) or the Department of Trade and Industry (DTI) and owned and managed by professionals qualified to undertake work in ARCHITECTURAL AND ENGINEERING DESIGN;
 - III.1.2 An Architectural Firm, at least 70% owned by a Filipino Architect, who must be registered and licensed to practice architecture in the Philippines, in full compliance with R.A. No. 9266 (Architecture Act of 2004), registered under Philippine Laws, a sole proprietorship, partnership or corporate entity;
 - III.1.3 An Architectural and Engineering (A&E) Firm, partly owned by a Filipino Architect, registered and licensed to practice architecture in the Philippines, in compliance with R.A. No. 9266, registered under Philippine Laws, a sole proprietorship, partnership or corporate entity, provided that said Architect shall be nominated in the bid documents as the professional responsible to lead the Consultant's team in the design and who shall be tasked with signing all contract and permit documents;
 - III.1.4 Or a Joint Venture (JV), Association or Consortium of Firms where the lead firm must be an architectural or architectural and engineering firm, following the same conditions cited in paragraphs III.1.1 and III.1.2 above, provided that all member firms of said JV, association or consortium shall satisfy the pertinent eligibility requirements.
 - III.1.5 Shall have an office operating in Cebu for at least 10 years and engage in projects involving rehabilitation of Heritage Structure and the likes; at least minimum of 5 projects for the past 10 years.
- III.2 The A&E DESIGN CONSULTANT shall have demonstrated competence and creativity to address the design problem for projects of similar complexity, use and character. The ARCHITECTURAL AND ENGINEERING DESIGN CONSULTANT shall show previous experience in **Heritage Building Rehabilitation, Adaptive Reuse and other similar project.**

The Bidder shall indicate in his technical proposal, a description of completed and ongoing projects, citing features and merits of particular projects where the above-mentioned requirements have been fulfilled.

- III.3 The A&E DESIGN CONSULTANT must be operational for at least ten (10) years and shall have proven capacity to complete the project and provide the appropriate experts and project staffing.

IV. MANPOWER AND QUALIFICATION REQUIREMENTS

The ARCHITECTURAL AND ENGINEERING DESIGN CONSULTANT shall provide the manpower requirements upon the effectivity of the contract with the following qualifications and functions:

- IV.1 The ARCHITECTURAL AND ENGINEERING DESIGN CONSULTANT manpower requirement for the A&E design shall include the following:

TABLE 2. PROJECT KEY PERSONNEL

Position	Responsibilities	Qualifications
Principal Architect/ Designer	Project management - leads in the Consulting team in the formulation of concepts and plans. Key professional responsible for signing construction documents.	Licensed Filipino Architect; At least ten (10) years of experience in Architectural Engineering and Design; Preferably with certification/accreditation from international or local green building organization and has similar experience in planning and designing of HERITAGE BUILDING Renovation, Rehabilitation, Architectural and Engineering Building Documentation and Adaptive Reuse approach.
Project Manager / Coordinator	Project coordination – coordinates the work of project personnel; coordinates production of reports and other outputs; coordinates the project	Registered Architect with minimum ten (10) years' experience in work programming of Architectural and Engineering services

	schedules and requirements with the Client in behalf of the Consultant.	
Civil Works and Structural Engineer	Conceptualizes and prepares civil works and structural designs; professional responsible for signing structural design drawings, design analysis and specifications.	Registered Civil Engineer with minimum ten (10) years' experience in structural and civil works design with expertise in earthquake engineering. Should hold an MS or PhD in Civil or Structural or Earthquake Engineering. Should show experience in addressing vibration sensitive building requirements
Professional Electrical Engineer	Conceptualizes, recommends and prepares electrical and electrical auxiliaries systems and illumination designs for buildings and sites, professional responsible for signing electrical design drawings, design analysis and specifications.	Professional Electrical Engineer with minimum ten (10) years of experience in Electrical Design and Supervision involving the design of electrical, security and fire alarm system requirements for commercial, institutional, industrial buildings or projects of similar or greater magnitude and complexity; Preferably with experience in various codes such as PEC, NFPA, NEC and can do electrical load computation, lighting analysis, voltage drop calculation and short circuit analysis
Professional Mechanical Engineer	Conceptualizes, recommends and prepares mechanical systems for: HVAC, Automated transport systems and Fire protection; In-charge of coordination for whole-building engineering design; professional responsible for signing HVAC, ATS, fire protection and piped utilities design	Professional Mechanical Engineer with minimum ten (10) years of experience in Mechanical Design and Supervision involving design of air-conditioning, ventilation, fire protection system, elevator system and other mechanical requirements for commercial, institutional, industrial buildings or projects of similar

	drawings, design analysis and specifications	or greater magnitude and complexity
Master Plumber or Sanitary Engineer	Conceptualizes, recommends and prepares domestic and water distribution, sewer and drainage systems designs for buildings and sites, solid waste management strategy and SWM facility designs; Professional responsible for signing plumbing plans and details, design analysis and specifications.	Licensed Sanitary Engineer with minimum ten (10) years of experience in Sanitary Design or Licensed and Registered Master Plumber with minimum of ten (10) years of experience in Plumbing Design and Supervision involving design of sanitary/plumbing and water distribution system for commercial, institutional, industrial buildings or projects of similar or greater magnitude and complexity
Professional Electronics Engineer	Conceptualizes, recommends and prepares communications systems, security and alarm systems design, and design for acoustic control of vibration-sensitive environments.	Licensed Professional Electronics Engineer with minimum of ten (10) years of experience in Electronics and Communications Design and Supervision involving design of electronics and communication/IT system for commercial, institutional, industrial buildings or projects of similar or greater magnitude and complexity

IV.2 The A&E DESIGN CONSULTANT may assign tasks of Project Key Personnel to professionals outside of his firm or organization provided that the necessary documents to support the agreement between the ARCHITECTURAL AND ENGINEERING DESIGN CONSULTANT and Key Personnel are submitted with the Bid.

IV.3 The A&E DESIGN CONSULTANT may assign other support personnel in addition to those listed below, for the optimal performance of all DETAILED ARCHITECTURAL AND ENGINEERING DESIGN Services at no additional cost to UPC.

The following is an indicative list of technical support personnel with their qualifications that may be assigned by the ARCHITECTURAL AND ENGINEERING DESIGN CONSULTANT.

TABLE 3. PROJECT SUPPORT PERSONNEL*

Position	Responsibilities
Senior Draftsman (1 personnel)	B.S. Engineering or Architecture graduate; 5-year work experience in AutoCAD drafting and managing the production of construction drawings; must be a regular staff of the CONSULTANT / primary consulting firm.
Junior Draftsmen (1 personnel)	B.S. Engineering or Architecture graduate; AutoCAD and Sketch-up capable; must be a regular staff of the CONSULTANT / primary consulting firm or any of the associate key personnel named above.
Cost and Quantity Estimator (1 personnel)	B.S. Civil Engineering or Architecture graduate with 3-year experience in value engineering and cost estimation; Must be a regular staff of the CONSULTANT / primary consulting firm or any of the associate key personnel named above.
Specification Writers (1 personnel)	B.S. Civil Engineering or Architecture graduate with 3-year experience in specifications writing; Must be a regular staff of the CONSULTANT / primary consulting firm or any of the associate key personnel named above.
Cost Engineer and Quantity Surveyor (1 personnel)	B.S. Civil Engineering or Architecture graduate with 3-year experience in quantity and costing; Must be a regular staff of the CONSULTANT / primary consulting firm or any of the associate key personnel named above.
Planner/Scheduler (1 personnel)	B.S. Civil Engineering or Architecture graduate with 3-year experience in planning the schedule or making PERT/CPM or equivalent method in schedule making; Must be a regular staff of the CONSULTANT / primary consulting firm or any of the associate key personnel named above.

* To be named in the Bidder's Proposal

IV.4 The A&E DESIGN CONSULTANT shall provide the Curriculum Vitae (CVs) (Annex "A") of their KEY AND SUPPORT personnel staff clearly showing the relevant skills, work experience, trainings and professional certifications issued by the respective organization/association. The CVs must be accompanied with certified true copy of the following:

IV.4.1 Valid Professional Regulation Commission (PRC) License and Current Professional Tax Receipt (PTR);

- IV.4.2 Diploma for college degree
- IV.4.3 Diploma for post graduate degree, if applicable
- IV.4.4 Professional certifications issued by the respective organization/association
- IV.4.5 Certificate of Employment for the last five (5) years stating satisfactory performance of the employee
- IV.4.6 Job Description/s on the projects handled

V. SCOPE OF SERVICES

V.1 General Scope of Work

The scope of the Consultant's work shall include review of design, plans and documents and assumption of liability of building plan schemes, design developed drawings and final contract documents for the construction work to be done on the building. In general, the design engagement shall include, but not limited, to the following:

- a) ARCHITECTURAL PLANS
- b) STRUCTURAL PLANS
- c) ELECTRICAL PLANS
- d) ELECTRONICS AND COMMUNICATIONS
- e) SANITARY AND PLUMBING PLANS
- f) MECHANICAL PLANS
- g) FURNITURE, FURNISHING AND EQUIPMENT PLANS
- h) OUTLINE SPECIFICATIONS
- i) TECHNICAL SPECIFICATIONS
- j) BILL OF QUANTITIES AND DETAILED UNIT PRICE ANALYSIS
- k) MASTER CONSTRUCTION SCHEDULE (Ghant chart and S-curve as baseline schedule for the project duration)

Additional Important Notes and Deliverable(s)

1. The Consultant must submit Construction Methodology and or Method Statement with Illustration Drawings as basis for their Construction Schedule.
2. The Consultant must submit Manpower and Equipment Schedule as basis for their MCS as well.
3. The Consultant must submit a T.O. (table of organization) or organizational chart with complete contact numbers of the personnel directly involved in this particular project for easy communication.
4. If in case of a variation order that was a fault of the submitted construction drawings, the Consultant will correct the said drawings without cost. If in case the fault is due to other circumstances, the Consultant shall be consulted prior to final decision for cost implication or other matter.
5. The Consultant will prepare and release a blueprint for Construction with FCD (For Construction Drawing) markings or initials as the only basis for construction implementation so as not to confuse with other drawings that are not approved, with the approval from UPC, NHCP and other concerned agencies.

6. The Consultant will address all RFA (Request for Approval) and RFI (Request for Information) within max of 3 working days.
7. In the event that the Consultant cannot respond the request mentioned above within the prescribe time, UPC-OCA may address such request but will give notice to the Consultant for its decision and implications so as to not delay the construction.
8. The Consultant will submit periodic schedule of site inspection and or as per request by UPC.
9. BOQ must strictly coincide with the construction drawing as well as all the details.

V.2 Detailed Scope of Work

The CONSULTANT shall execute this assignment through a graduated, consultative and iterative process starting with the review of the plans and design schematics, thence into more detailed architectural design (during the Design Development Phase) and then finally to the preparation of detailed architectural and engineering contract document services of the proposed building. The process shall be consultative, engaging the client and facility end-users through all stages of the consultancy work.

V.2.1 **Project Inception Stage**– The **CONSULTANT** shall:

- V.2.1.1 Conduct ocular visit of the site and topographic survey/s to gather the necessary data from the organization and administration patterns as well as procedures to optimize space allocation and increase productivity.
- V.2.1.2 Consult with a Geo-technical Engineer for a site survey/assessment and soil investigation to evaluate the site and soil conditions of the proposed location of the building.
- V.2.1.3 Present and submit the **Inception Report** documenting the:
 - Work program and project schedule.
 - Project organizational chart and protocols for reporting and project coordination.
 - Rapid site assessment and review of site data identifying site potentials and constraints.
 - Request for additional site and project information.

V.2.2 **Conceptual Framework Plan and Architectural Program Report Stage** – The **CONSULTANT** shall:

- V.2.2.1 Conduct studies required for the project in compliance with government laws, ordinances, codes, rules and regulations, functional relationships, cost and effectiveness and others.
- V.2.2.2 Present and submit the **Conceptual Framework Plan and Architectural Program Report** containing the following:

- Description and illustration of the Master Development Plan for the project integrating all space requirements, immediate and future developments, and adjacent and ancillary services; and
- Recommended options and strategies for architectural and engineering development.

V.2.3 **Schematic Building Design and Preliminary Site Development Design Stage**

The work under this phase includes the REVIEW and ASSESSMENT of the initial Plan given by UPC-OCA. The **Report** shall include, but is not limited, to the following:

- a) Site development plan showing landscape scheme
- b) Schematic floor plans, elevations, sections, interior and exterior perspectives.
- c) Space Program and preliminary scope of construction work
- d) Budgetary estimates

V.2.4 **Design Development Stage**

The work under this phase includes the preparation of developmental designs and design data including recommended systems and corresponding costs in aid of finalizing the design program and plans prior to the preparation of dialed and final construction drawing and contract documents.

The following design development submissions are to be made based on the latest and approved building schematic and preliminary site development plans:

- a) Design developed architectural and engineering plans
- b) Detailed floor plans and sections
- c) Scope of construction work
- d) Schedule of materials and finishes
- e) Outline specifications
- f) Updated budgetary estimates

NOTE: The end-users and other parties or UPC Department involved must signed the documents as an approval prior for the preparation of the Contract Documents: A Certification from NHCP is also a prerequisite for the final preparation of contract documents.

V.2.5 **Contract Document Stage**

Based on the approved design development plans, the Consultant proceeds to the preparation of the following:

- a) Detailed architectural and engineering construction drawing
- b) Scope of work and schedule of materials and finishes
- c) Technical Specifications
- d) Detailed bill of quantities and cost estimates

The Consultant shall ensure that all Final Contract Documents are coordinated across all design disciplines and outputs.

NOTE: In case there will be a variation orders due the errors with the contract documents, the Consultant must correct the documents

without additional cost; if the variation is due to other circumstances the Consultant must acknowledge such variation with or without cost implication due to the Consultant.

V.2.6 Construction Stage

V.2.6.1 During **Construction Phase**, the Consultant is expected to:

- a) Advise the UPC-OCA and the appointed Project Construction Management Team regarding decisions on all claims of the Client and Contractors on all matters relating to the execution and progress of work or the interpretation of the Contract Documents.
- b) Make periodic visits (at least twice a month) to the project site to:
 - familiarize himself with the general progress and quality of work and to ascertain that the work in progress is proceeding in accordance with the Contract Documents and report; and
 - report to UPC-OCA, defects and deficiencies noted in the work of Contractors and hall condemn
- c) As needed, advise the UPC-OCA and the appointed Project Construction Management Team in:
 - preparation of variation orders and in the review of written guarantees required of the Contractor and Sub-contractors;
 - determining the amount owing and due to the Contractor and certifying that the quality of work performed by the Contractor is in accordance with the Contract Documents; and
 - work found failing to conform to the Contract Documents

VI. PROJECT DOCUMENTATION

VI.1 The following are the submissions and output requirements of the Project:

TABLE 4. SUBMISSION REQUIREMENTS AND SCHEDULE

Stage	Submission Schedule	Review and Approval Schedule	Outputs	Format	Payment
Project Inception	Due 15 CD after NTP	Max 6 CD after receipt of inception report	Project Inception and Site Analysis Report: Project Methodology • Project Timetable & Schedule • Review of Project Data • Initial Site Analysis	3 copies of bound A3 size report, CD containing an electronic file in PDF.	5% (less 10% retention every billing amount)

			<ul style="list-style-type: none"> • Photo Survey of the site • Initial recommendations 		
			Presentation of Findings	PowerPoint/ Visual Presentation	
Conceptual Framework Plan Stage	Due 15 CD after receipt of the approved inception report	Max 6 CD after receipt of conceptual design	Conceptual Framework Plan Report	3 copies of bound A3 size report, CD containing an electronic file in PDF.	30% (less 10% retention every billing amount)
			Presentation of the Conceptual Framework Plans	Visual Presentation in PowerPoint	
Schematic Design Stage	Due 15 CD after receipt of the approved Conceptual framework plan report	Max 7 CD after receipt of schematic design	Schematic Design Stage Report	3 copies of bound A3 size report, CD containing an electronic file in PDF.	
			Presentation of the Schematic Designs	Visual Presentation in PowerPoint	
Design Development Stage	Due 30 CD after receipt of approved schematic plans and designs	Max 7 CD after receipt of design development report	Design Development Report	3 copies of bound A3 size report, CD containing an electronic file in PDF.	30% (less 10% retention every billing amount)

			Presentation of the Design Development Plans	Visual Presentation in PowerPoint	
Final Report and Final Contract Documents Submission	Max 65 CD after receipt of the approved design development report	Max 14 CD after receipt of contract documents	Presentation of the Final Report and Final Contract Documents	Visual Presentation in PowerPoint	35% (less 10% retention every billing amount)
			Architectural Programming and Conceptual Framework Plan Final Report	First submission <i>(for review and approval)</i> : 3 copies of bound A3 size report CD containing an electronic file in PDF) Second submission <i>(as approved by UPLB)</i> : 3 copies of bound A3 size report CD containing an electronic file in PDF.	
			Architectural and Engineering construction plans and detailed drawings	7 copies of A1 size white prints with 1 set of Tracing Paper (thick) prints and electronic files of CAD	

				drawings	
			Technical Specifications	5 copies Bound A4size report, electronic file in Word format and PDF.	
			Bill of Materials and Cost Estimates	5 copies Bound A4size report, electronic file in excel format and PDF.	
			Blank Forms for Proposal of Bidders/Contractors	1 copy of bound A4 size report	
TOTAL number of CD	140 CD	40 CD	180 CD		<p>TOTAL RELEASED PERCENTAGE SHALL BE A TOTAL OF 100%. Then less 10% Retention based on the 100% progress of works (Project Inception to Final Construction Docs Report)</p> <p>Retention to be released after issuance of certificate of Completion & Acceptance given that a</p>

				Bond from the consultant valid for 1 year equivalent to the 10% Retention amount. (See attachment for breakdown of schedule of fees.
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VI.2 Oral/ visual presentation meetings shall be scheduled with the Client at least 2-3 days after the submission of the report to be presented.

VI.3 Succeeding revisions in schemes and design development plans including revised cost estimates, resulting from consultations with the Client, should be submitted in bound A3 size compilations, but need not contain full report contents, to be attached in the original report as "ANNEXES."

VI.4 Schedule Submission and Stop-Clock

Project Documentation and the stipulated Schedule of Submission stated above, the CONSULTANT shall provide and complete the deliverable be for a period of One Hundred Eighty (180) Calendar Days (the "Project Timeline") commencing on the receipt date of Notice to Proceed **including the review and approval period of UP CEBU and excluding revision period of the CONSULTANT.** UP CEBU shall communicate to the CONSULTANT such approval within the agreed period of time therefrom. In the event of revision requested by UP CEBU to be performed by the CONSULTANT, the parties shall mutually agree on the duration of such revision.

Both parties agreed to use the TPF 8 which forms an integral part of this Agreement, for the Work Activity and its real-time mobility. The CONSULTANT will communicate and update UP CEBU about the TPF 8 on a regular basis until the project is completed. Before advancing to the next stage (the "Deliverables"), UP CEBU shall furnish the CONSULTANT with a Notice of Acceptance/Approval. If the CONSULTANT does not get any feedback/comments/approval from UP CEBU within the agreed period of time, the CONSULTANT will send a Notice of Pause Work Order until such feedback or approval is received via a Notice of Acceptance and/or Notice to Proceed to the next phase or milestone.

In the event of project timeline or Submission Schedule extension (the "Extension of Period"), the Parties agree to extend the Agreement. Any extension will be subject to a written agreement between the Parties.

- 5.1 The running of the prescribed period for each deliverable stages shall stop (the "Stop-Clock") on the date of submission by the CONSULTANT of the required deliverable to UP CEBU whichever is applicable. The remaining time unutilized by the CONSULTANT in the prescribed period for each concerned deliverable stage shall be considered as time credits of the CONSULTANT. In case of delay in the submission of deliverables, these time credits or credited number of days shall be deducted in the final amount of Liquidated Damages computed in accordance with Subsection 7 hereof.
- 5.2 The Consultant shall take responsibility for any submissions, communications, follow-up, and coordination with Government Agencies in relation to the necessary permits needed to fast-track the design approval and implementation of the project.
- 5.3 If UP CEBU returns the deliverable to the CONSULTANT with comments or recommendations that lead to revisions but does not issue the Certificate of Acceptance/Approval, the following guidelines will be followed:
 - i. The CONSULTANT shall revise the concerned deliverable within the period (the "Revision Period") indicated in the written instruction of UP CEBU. The Revision Period is outside the Project Timeline and is part or extension of UP CEBU's Approval Schedule.

In the event of a variation/extra work (the "Variation Order") after UP CEBU has approved the specific deliverable, such as but not limited to Contract Documents and/or Construction Drawings, excluding those that are the result of the CONSULTANT proven fault or negligence, the Variation Order will be discussed by and between UP CEBU and the CONSULTANT, and they will reach a mutual agreement on whether the Variation Order is with or without additional cost.

VI.5 Liquidated Damages

When CONSULTANT fails to satisfactorily complete the services required under the contract within the specified period, inclusive of duly granted time extensions, if any, CONSULTANT shall be liable for damages for the delay. Consequently, it will have to pay UP CEBU liquidated damages in an amount equal to one-tenth (1/10) of one percent (1%) of the cost of unperformed portion for every day of delay.

In case the sum of liquidated damages reaches ten percent (10%) of the contract amount, the contract may be rescinded or terminated by UP CEBU, without prejudice to other courses of action and remedies available under the circumstances. In case the contract is rescinded or terminated, UP CEBU may take over the contract or award the same to a qualified consultant through negotiated procurement. In addition to the liquidated damages, the erring CONSULTANT performance security shall also be forfeited.

In case the delay in the completion of the services exceeds ten percent (10%) of the specified contract time plus any time extension duly granted to CONSULTANT, UP

CEBU may rescind the contract. It then forfeits the CONSULTANT performance security and takes over the prosecution of the contract or award the same to a qualified CONSULTANT through negotiated procurement.

VII. PLAN REVIEW AND APPROVAL

- VII.1 UPC shall designate personnel responsible for plan review and approval. All plans submitted shall use the UPC-recommended title blocks, with the following signatories;
- (a) the appointed End-user representative
 - (b) the UPC - OCA
 - (c) the UPC Vice Chancellor
 - (d) the UPC Chancellor
- VII.2 Prior to progressing to succeeding stages of design, a final copy of the plans should be submitted for signature of the above University personnel.
- VII.2.1

VIII. CONFIDENTIALITY OF DATA

The ownership of all designs, drawings, specifications and copies thereof including electronic files, prepared and furnished by the **CONSULTANT** in the performance of the services subject of this Agreement shall be vested with the UPC.

IX. WARRANTIES OF THE CONSULTANT

- IX.1 The ARCHITECTURAL AND ENGINEERING DESIGN CONSULTANT warrants that it shall conform strictly with the terms and conditions of these Terms of Conditions.
- IX.2 The ARCHITECTURAL AND ENGINEERING DESIGN CONSULTANT warrants, represents and undertakes reliability of the service required to the satisfaction of the UPC. It shall employ highly skilled, well behaved and honest employee with ID displayed conspicuously while working within the compound. It shall not employ UPC employees to work in any category.
- IX.3 The ARCHITECTURAL AND ENGINEERING DESIGN CONSULTANT shall comply with the laws, governing employees' compensation, rules and regulations applicable to its personnel employed on account of contract services. The CONSULTANT shall pay its personnel not less than the minimum wage and benefits mandated by law.
- IX.4 The ARCHITECTURAL AND ENGINEERING DESIGN CONSULTANT in the performance of its service shall secure and maintain at its own expense all registration, license or permits required by national or local laws and shall comply with the rules, regulations and directives of the regulatory Authorities and Commissions.
- IX.5 The ARCHITECTURAL AND ENGINEERING DESIGN CONSULTANT's personnel shall take all necessary precautions for the safety of all persons and properties at or near

their area of work and shall comply with all the standards and established safety regulations, rules and practices.


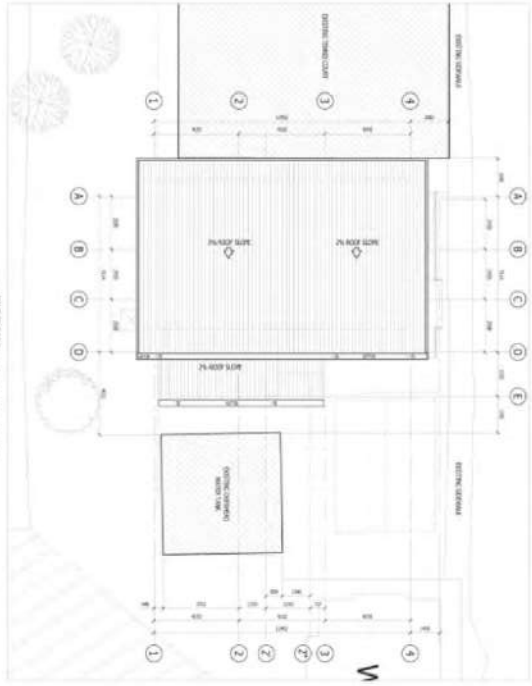

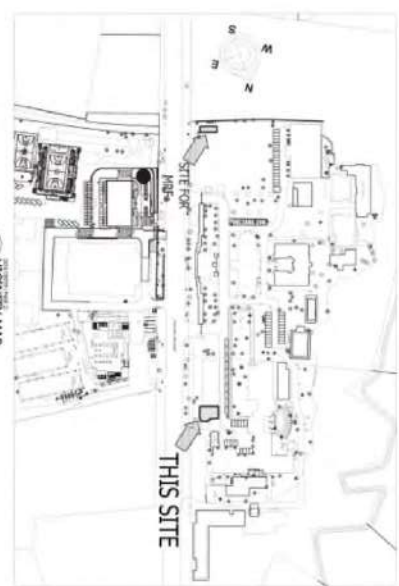

- IX.6 The ARCHITECTURAL AND ENGINEERING DESIGN CONSULTANT shall coordinate with any authorized and/or designated UPC personnel in the performance of their jobs.
- IX.7 The ARCHITECTURAL AND ENGINEERING DESIGN CONSULTANT shall be liable for loss, damage or injury as may be due directly through the fault or negligence of its personnel. It shall assume responsibility thereof and the UPC shall be specifically released from any responsibility arising therefrom.
- IX.8 The ARCHITECTURAL AND ENGINEERING DESIGN CONSULTANT shall comply with all documents to be required by the Commission on Audit even after completion of the project at no additional cost to the UPC.
- IX.9 The ARCHITECTURAL AND ENGINEERING DESIGN CONSULTANT shall neither assign, transfer, pledge, nor sub contract any part or interest therein.
- IX.10 The ARCHITECTURAL AND ENGINEERING DESIGN CONSULTANT shall tender service at no cost in the UPC in case of any extension of the contract duration.

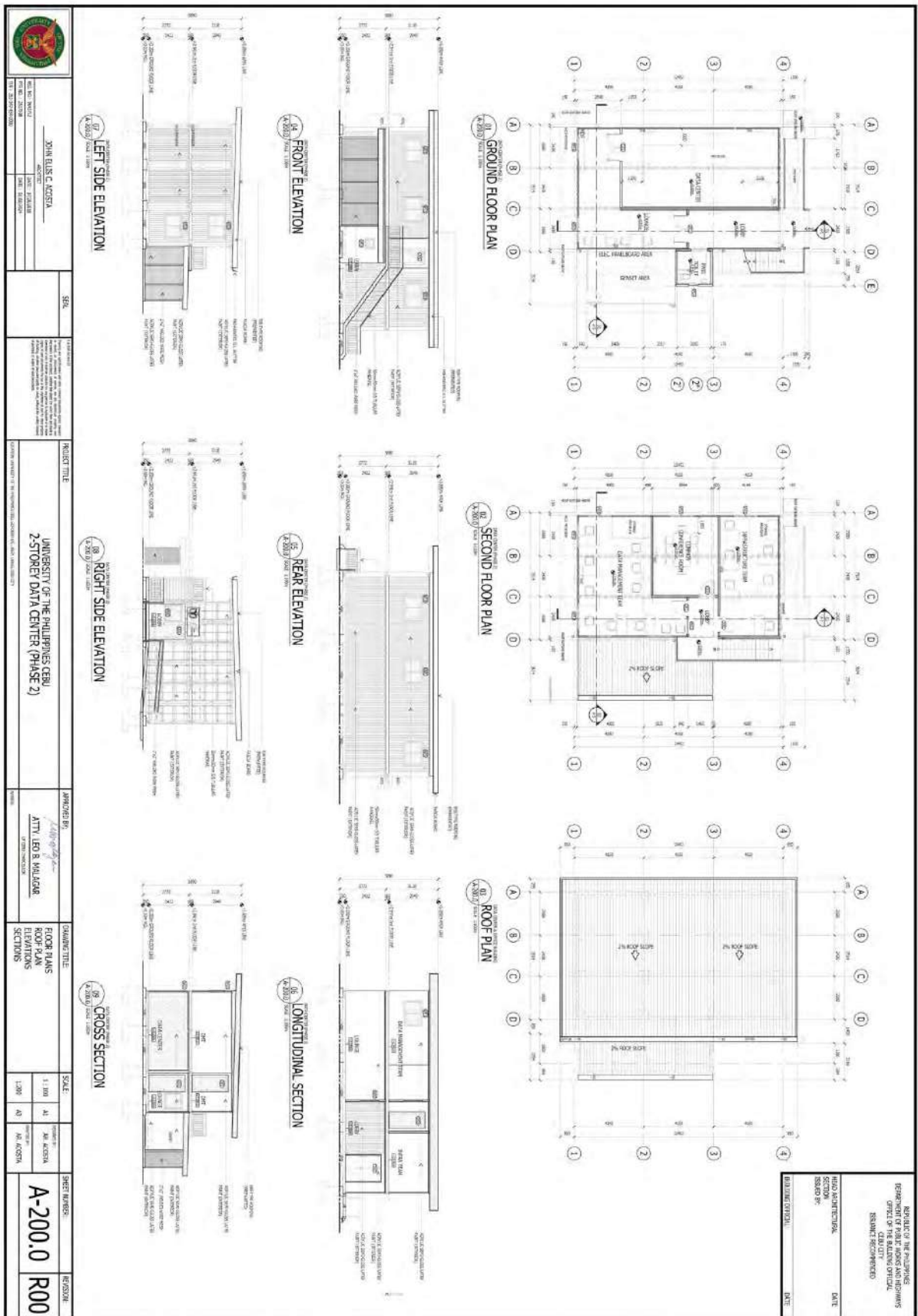
The Terms of Reference for the Consulting Services for the Permits and Liability of the Proposed UP Cebu Data Commons and IT Hub is hereby approved.

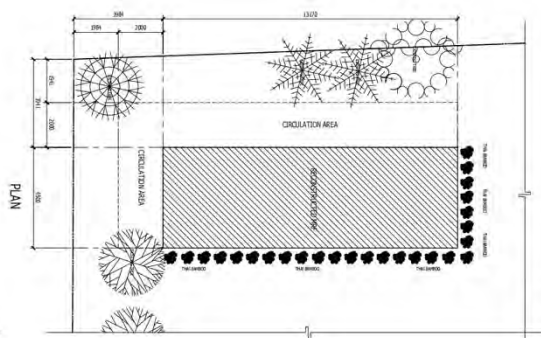
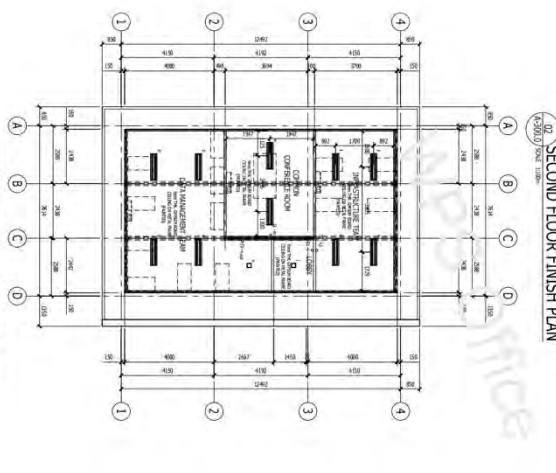
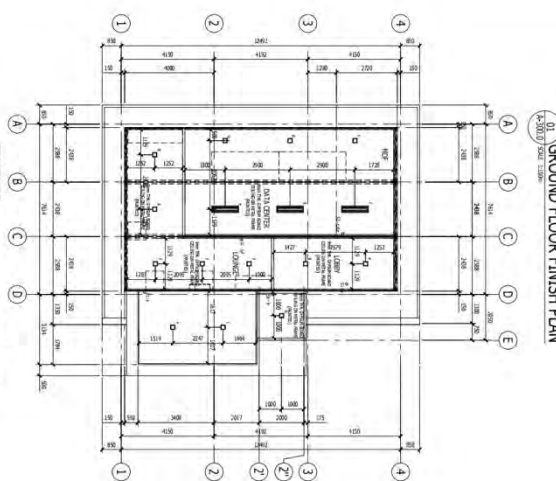
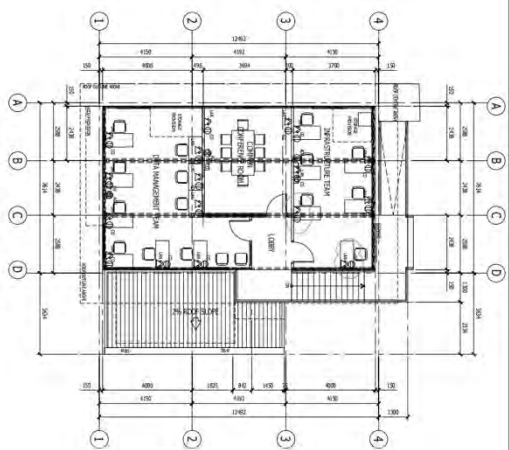
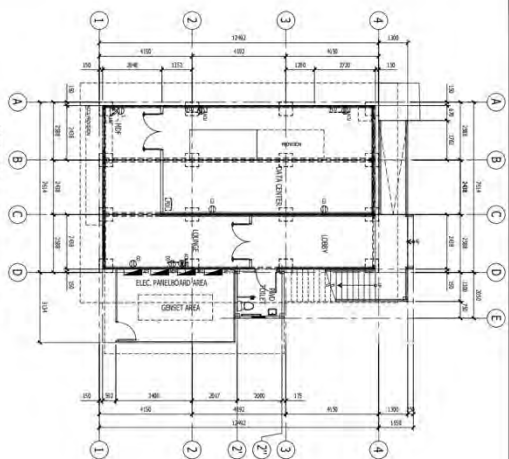


Atty. Leo B. Malagar
Chancellor, UP Cebu

Section VII. Drawings

		PROJECT TITLE: UNIVERSITY OF THE PHILIPPINES CEBU 2-STORY DATA CENTER (PHASE 2)		PREPARED BY: ATTY. LEO B. MALALAL <small>OF THE BAR COUNCIL</small>		SCALE: 1:100 1:100 1:100		DATE: M. 2023 M. 2023 M. 2023			
7. SITE DEVELOPMENT PLAN <small>1:100</small>				8. LOCATION MAP <small>1:100</small>				9. VICINITY MAP <small>1:100</small>			
10. PERSPECTIVE <small>1:100</small>				11. LAND USE AND ZONING <small>1:100</small>		12. LINE AND GRADE <small>1:100</small>		13. ADAPTIVE <small>1:100</small>		14. STRUCTURAL <small>1:100</small>	
15. SANITARY <small>1:100</small>		16. ELECTRICAL <small>1:100</small>		17. MECHANICAL <small>1:100</small>		18. ELECTRONICS <small>1:100</small>		19. A-100.0 R00		20. DATE DATE DATE DATE	



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1.0 CODES AND STANDARDS

1.0 CODES AND STANDARDS

4.1 GOVERNING CODES

- (1) NATIONAL STRUCTURAL CODE OF THE PHILIPPINES - NSCP 2001
-
- (12) AMERICAN CONCRETE INSTITUTE - ACI 308 - IS

4.2 GOVERNING STRATEGIES

- [illegible]

2.0 LOADING CRITERIA

- [illegible]

0.2 LIVE LOAD

- $\eta = \Delta G^0 - RT \ln Q$

II. CONSTRUCTION NOTES:

1.0 GENERAL

- [illegible]

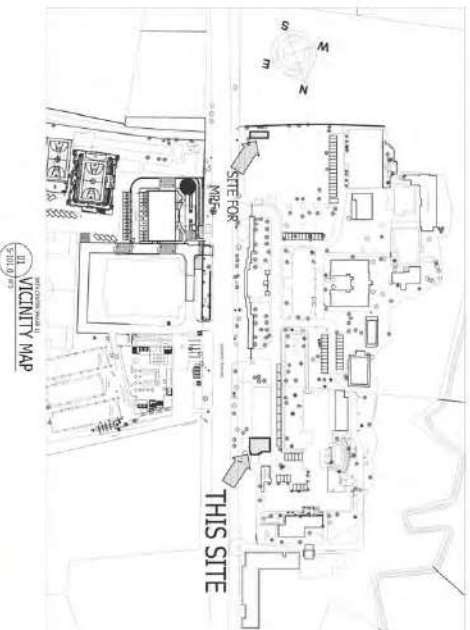
2.0 CONCRETE AND REINFORCING STEEL

- [illegible]


5.0 FOUNDATION

- 4.1. FLOORING FOR JOINT WALLS AND JOINT ROOFS SHALL BE PROVIDED AT LEAST 1/2" BELOW THE JOINT LINE.
- 4.2. FLOORING FOR ROOFS SHALL BE PROVIDED AT LEAST 1/2" BELOW THE JOINT LINE.
- 4.3. IF KEYS WERE REQUIRED UNDER THE ASSURED JOINT, PROFESSIONAL NOTATION BETWEEN JOINT AND JOINT LINE FLOORING.
- 4.4. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOINT PRIOR TO PREPARATION OF JOINT.
- 4.5. SELECTED JOINTS SHALL BE REINFORCED WITH STEEL REINFORCEMENT AND REINFORCEMENT SHALL BE IN ACCORDANCE OF A REINFORCEMENT DESIGN APPROVED BY OWNER REPRESENTATIVE BEFORE CONSTRUCTION.
- 4.6. THE CONTRACTOR SHALL VERIFY THE DESIGN AFTER JOINT AND REINFORCEMENT HAVE BEEN COMPLETED AND PRIOR TO CONCRETE TO CORROBORATE THE DESIGN FOR STEELING CONCERN.

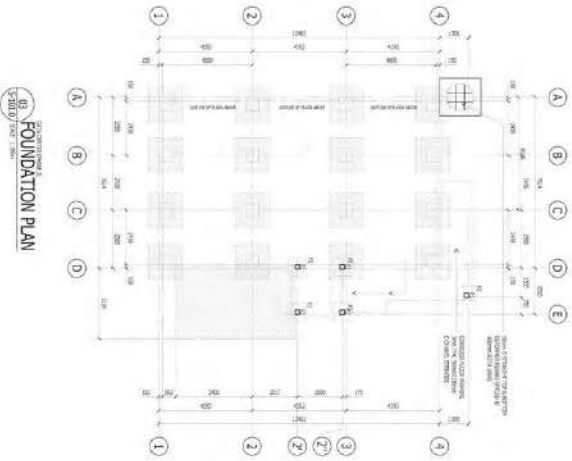




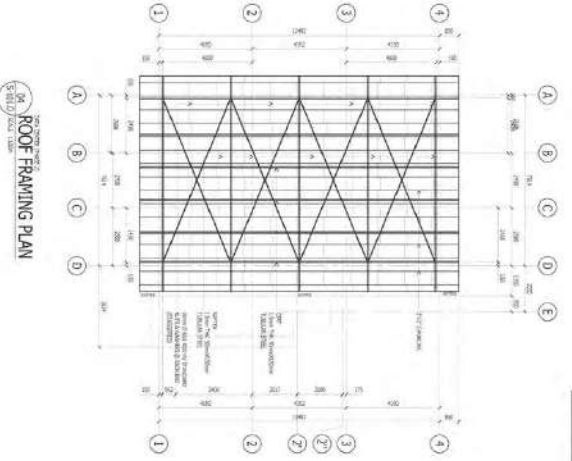
VICINITY MAP



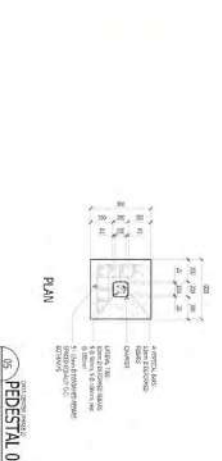
LOCATION MAP



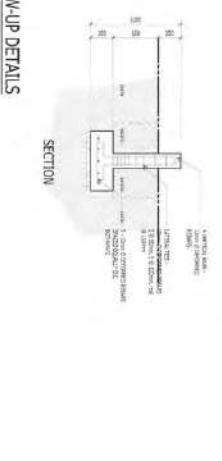
FOUNDATION PLAN



ROOF FRAMING PLAN



PEDESTAL 02 BLOW-UP DETAILS



SECTION

PROJECT TITLE:
UNIVERSITY OF THE PHILIPPINES CEBU
2-STORY DATA CENTER & OFFICE BUILDING

APPROVED BY:
ATTY. LEO B. MALIGAR
ATTESTATION

PROJECT TITLE:
FOUNDATION & VICINITY MAP
FOUNDATION PLAN
ROOF FRAMING PLAN
BLOW-UP DETAILS

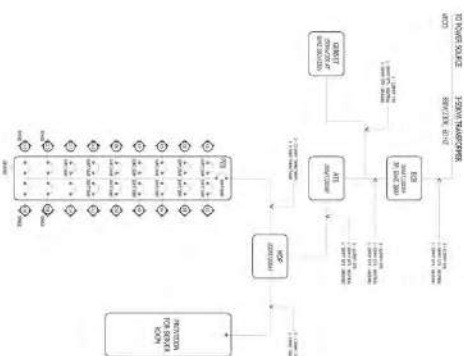
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THE INFORMATION CONTAINED HEREIN IS THE PROPERTY OF THE FEDERAL BUREAU OF INVESTIGATION AND IS LOANED TO YOUR AGENCY OR COMPANY FOR OFFICIAL USE ONLY. IT IS NOT TO BE DISTRIBUTED OUTSIDE YOUR AGENCY OR COMPANY. IT IS TO BE RETURNED TO THE PROPER COORDINATING OFFICE OF THE INSTALLATION, EXCEPT WHERE SHOWN OTHERWISE. IT IS TO BE DESTROYED WHEN NO LONGER REQUIRED. IT IS TO BE KEPT SEPARATE FROM THE WORK WHICH MAY BE EXPEDIENTLY STATED TO BE DONE BY OTHERS. ALL WORKS SHALL BE IN ACCORDANCE WITH GOVERNMENT CODES AND REGULATIONS AND THE SPECIFICATIONS, EXCEPT WHERE CONFLICTS ARE NOTED. THE GOVERNING CODES SHALL PREVAIL. THE REQUIREMENTS IN REGARDS TO MATERIALS AND WORKMANSHIP SPECIFY THE EQUIPMENT TO BE USED. THE COST OF MATERIALS AND WORKMANSHIP IS NOT EQUIPMENT NECESSARY FOR THE COMPLETION OF THE INSTALLATION OF THE WORK SPECIFIED HEREIN AND INDICATED ON THE DRAWINGS.




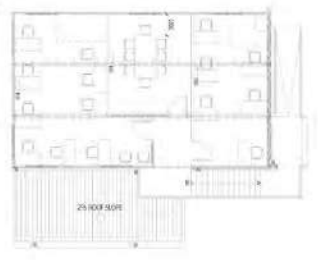
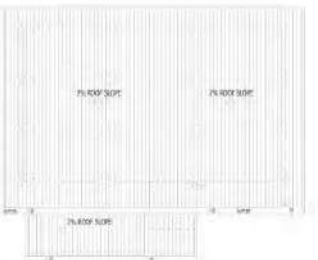
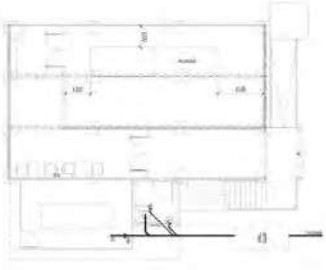
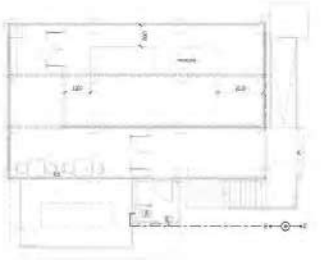
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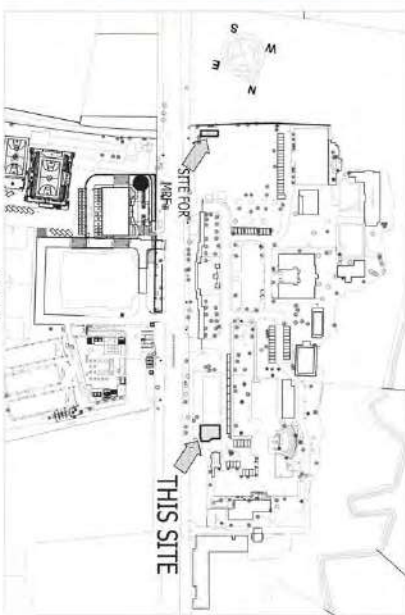
I HEREBY CERTIFY THAT THERE IS NO CONSTRUCTED AIR TUNNEL WELL WITHIN THE RADIUS OF 16.20 MTRS. FROM THE PROPOSED SEPTIC TANK

REGISTERED MASTER PLUMBER



		NAME OF APPLICANT _____ DATE OF SUBMIT _____ TEL NO. (212) 888- _____ FAX (212) 888- _____ E-MAIL ADDRESS _____ SIGNATURE OF APPLICANT _____ DATE OF SIGNATURE _____		GRADE _____	
PROJECT TITLE UNIVERSITY OF THE PHILIPPINES - CEBU 2-STORY DATA CENTER (PHASE 2)		APPROVED BY <i>(Signature)</i> ATTY. LEO B. MALABO Director Office of the Vice-Chancellor		DEDICATED TITLE LOCATION & VICINITY MAP 1:100 AL 1200 A3 30A	
SHEET NUMBER P-100.0		REVIEWER R00			

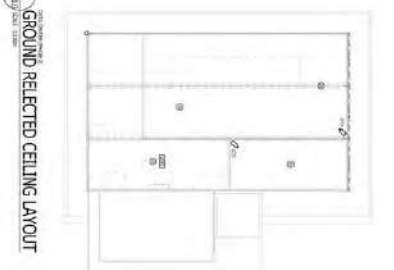
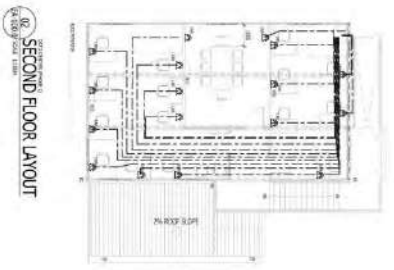
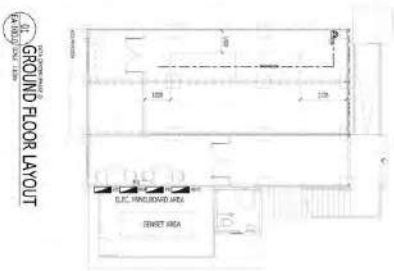
		PROJECT TITLE UNIVERSITY OF THE PHILIPPINES CEBU 2-STORY DATA CENTER (PHASE 2)		APPROVED BY  ATTY. LEO B. MALAGA <small>1P/REGISTRATION</small>		DRAWING TITLE SANITARY LINE LAYOUT POTABLE WATERLINE LAYOUT STORM DRAINAGE LAYOUT		SCALE 1:100 A1 1:200 A2 JICA		SHEET NUMBER P-101.0		REGION R00	
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>GROUND FLOOR STORM DRAINAGE LAYOUT</p>  </div> <div style="width: 30%;"> <p>SECOND FLOOR STORM DRAINAGE LAYOUT</p>  </div> <div style="width: 30%;"> <p>ROOF LEVEL STORM DRAINAGE LAYOUT</p>  </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="width: 30%;"> <p>SANITARY LINE LAYOUT</p>  </div> <div style="width: 30%;"> <p>POTABLE WATERLINE LAYOUT</p>  </div> </div>													



UNIVERSITY OF THE PHILIPPINES
OFFICE OF THE BALDWIN CLARK
CITY
ISLAND, ALABAMA
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SHEET NUMBER

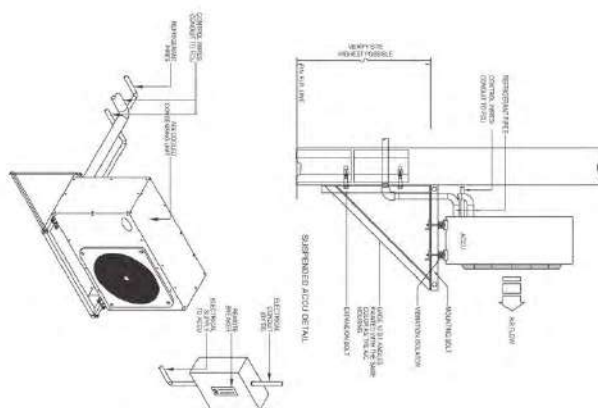
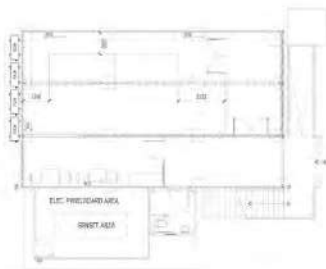
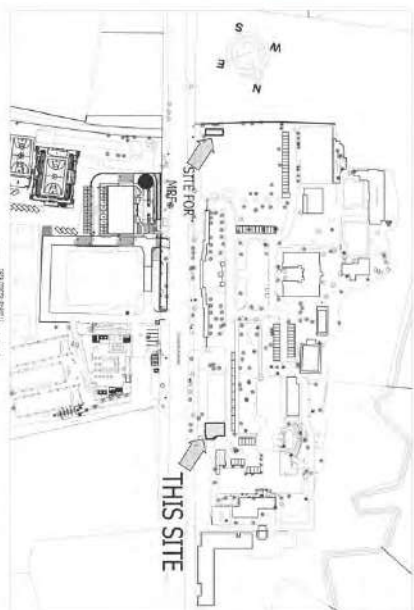
GENERAL NOTES

1. ALL WORKS SHOWN UNDER THE SCOPE OF THIS SPECIFICATION SHALL CONFORM TO THE FOLLOWING CODES AND STANDARDS: AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) STANDARDS FOR THE COMMUNICATIONS INDUSTRY.
2. THE LATEST EDITION OF THE PHILIPPINE ELECTRONICS CODE (PEC) SHALL BE USED FOR THE INSTALLATION OF THE COMMUNICATIONS SYSTEMS.
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EA-100.0 R00



GENERAL NOTES:

1. The research team is composed of 12 doctors, 10 of whom are working in the field of pediatric dentistry and 2 in orthodontics.
2. The ethical review and statistical considerations of the study have been approved by the local ethics committee.
3. The 120 children were selected as follows:
 - a. The 60 children were selected as part of a research program involving the use of a questionnaire to find out how many children in the study were in the deciduous dentition.
 - b. The 60 children were selected as part of a research program involving the use of a questionnaire to find out how many children in the study were in the permanent dentition.
4. The 120 children were selected as follows:
 - a. The 60 children were selected as part of a research program involving the use of a questionnaire to find out how many children in the study were in the deciduous dentition.
 - b. The 60 children were selected as part of a research program involving the use of a questionnaire to find out how many children in the study were in the permanent dentition.

LEGEND & SYMBOLS

- [illegible]

ABBREVIATIONS

- | | |
|-------|--------------------------------|
| 42332 | ANALOG AND DIGITAL SIGNAL UNIT |
| 42333 | ACCESS PANEL |
| 42334 | ACCESS POINT |
| 42335 | ACCESS POINT |
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03
RE-1100

GROUND FLOOR LAYOUT

04 SECOND FLOOR LAYOUT

05 ACCU MOUNTING DETAILS

		OFFICE ADDRESS 1011, 1012B 1013, 1014 1015, 1016, 1017		DATE 10/10/2019	
PROJECT TITLE UNIVERSITY OF THE PHILIPPINES CEJU 2-STORY DATA CENTER (PHASE 2)		APPROVED BY:  ATTY. LEO B. MALALAD Project Director		LOCATION & VICINITY MAP GENERAL NOTES GROUND FLOOR LAYOUT SECOND FLOOR LAYOUT FACILITY HOISTING DETAILS	
SCALE:		1:100		1/4" = 1'-0"	
SHEET NO.		ME-100.0		R000	

Section VIII. Bill of Quantities

*Please refer to attached details.

REPUBLIC OF THE PHILIPPINES

PROJECT TITLE : PROPOSED 2-STOREY DATA CENTER (PHASE 2)
LOCATION : UP CEBU, LAHUG, CEBU CITY
SUBJECT : COST ESTIMATE AND SCOPE OF WORKS
DURATION : 150 CALENDAR DAYS
ABC **₱7,792,866.23**

BILL OF QUANTITIES

ITEM.	WORK DESCRIPTION	UNIT	QTY.	UNIT COST	AMOUNT
I.	GENERAL REQUIREMENTS	Lot	1.00		
	Mobilization/Demobilization				
	Power and water Consumptions				
	Cutting of Container Wall Opening				
	Bonds and Insurance				
	Quality Control Program				
	Health, Safety and Environment				
	Project Billboard and signage				
	Temporary Facility				
	Protective Covering for Exposed Areas (Board up)				
	Sub-total for Item No. I				
II.	PROVISION FOR SCAFFOLDINGS	Lot	1.00		
	Sub-total for Item No. III				
III.	CONCRETE & REINFORCEMENT	sqm.	221.94		
	Sub-total for Item No. IV.				
IV.	METALS	sqm.	221.94		
	Sub-total for Item No. V				
V.	SPECIALTY WORKS	sqm.	221.94		
	Sub-total for Item No. VI				
VI.	CARPENTRY	sqm.	221.94		
	Sub-total for Item No. VII				
VII.	THERMAL & MOISTURE PROTECTION	sqm.	221.94		
	Sub-total for Item No. VIII				
VIII.	DOORS & WINDOWS	Lot	1.00		
	Sub-total for Item No. IX				
XIV.	FINISHES	sqm.	221.94		
	Sub-total for Item No. X				
X.	PLUMBING	Lot	1.00		
	Sub-total for Item No. XI				
XI.	ELECTRICAL	Lot	1.00		
	Sub-total for Item No. XII				
XII.	MECHANICAL	Lot	1.00		
	Sub-total for Item No. XIII				
XIII.	ELECTRONICS	Lot	1.00		
	Sub-total for Item No. XIV				
	TOTAL PROJECT COST				

PREPARED BY:

Ar. John Ellis C. Acosta
Senior Architectural Associate

ENDORSED:

Engr. Ruel T. Lomod
Supervising Engineering Associate

ENDORSED:

Dr. Hazel A. Trapero
Head, Office of the Campus Architect

ENDORSED:

Engr. Nicodimus R. Delda
Senior Engineering Associate

ENDORSED:

Jonathan P. Victolero
Information Technology Center (ITC)

APPROVED BY:

Atty. Leo B. Malagar
Chancellor, UP Cebu

PROJECT TITLE	: PROPOSED 2-STOREY DATA CENTER (PHASE 2)
LOCATION	: UP CEBU, LAHUG, CEBU CITY
SUBJECT	: COST ESTIMATE AND SCOPE OF WORKS
DURATION	:150 CALENDAR DAYS
ABC	₱7,792,866.23

UNIT COST ANALYSIS

I. GENERAL REQUIREMENTS

Quantity:	1
Unit:	Lot

A. Materials:					
	Description	Qty.	Unit	Unit Cost	Amount
	Mobilization/Demobilization	1	Lot		
	Power and water Consumptions	1	Lot		
	Cutting of Container Wall Opening	1	Lot		
	Bonds and Insurance	1	Lot		
	Quality Control Program	1	Lot		
	Health, Safety and Environment	1	Lot		
	Project Billboard and signage	1	Lot		
	Temporary Facility	1	Lot		
	Protective Covering for Exposed Areas (Board up)	1	Lot		
Material Cost:					
B. Equipment:					
	Description	Qty.	Days	Rental / Day	Amount
Equipment Cost:					
C. Labor:					
	Description	Qty.	Days	Rate/Day	Amount
Labor Cost:					
Total Direct Cost (A+B+C)=					

II. PROVISION FOR SCAFFOLDINGS

Quantity:	1
Unit:	Lot

A. Materials:					
	Description	Qty.	Unit	Unit Cost	Amount
	Scaffolding rental/month (complete sets)	12	sets		
Material Cost:					
B. Equipment:					
	Description	Qty.	Days	Rental / Day	Amount
Equipment Cost:					
C. Labor:					
	Description	Qty.	Days	Rate/Day	Amount
	Foreman				
	Carpenter				
	labourer/helpers				
Labor Cost:					
Total Direct Cost (A+B+C)=					
Indirect Cost:					

	Profit	
	OCM	
	[Sum of (EDC+ OCM + PROFIT) x 12%] TAX	
	Total Cost =	
	Unit Cost =	

III. CONCRETE & REINFORCEMENT

Quantity: 221.94
Unit: sqm.

A. Materials:					
	Description	Qty.	Unit	Unit Cost	Amount
<u>Footings</u>					
	Formworks	7	sqm		
	Rebars, Grade 60	136	kg.		
	Concrete, 3000 psi	2	cum.		
	Gravel Bedding	1	cum.		
<u>Pedestal</u>					
	Formworks	11	sqm		
	Rebars, Grade 60	185	kg.		
	Rebars, Grade 40	53	kg.		
	Concrete, 3000 psi	1	cum.		
<u>Slab on Grade (Stairs, Ramp)</u>					
	Formworks	3	sqm		
	Rebars, Grade 40	70	kg.		
	Concrete, 3000 psi	2	cum.		
	Gravel Bedding	5	cum.		
	Consumables(5% of material Cost)	1.00	lot		
(other work item not mentioned but necessary to complete the Concrete & Reinforcement)					
Material Cost:					P 0.00
B. Equipment:					
	Description	Qty.	Days	Rental / Day	Amount
	Minor Tools(15% of Labor cost)	1	lot		
Equipment Cost:					P 0.00
C. Labor:					
	Description	Qty.	Days	Rate/Day	Amount
	Foreman				
	labourer/Helper				
	Mason				
Labor Cost:					
Total Direct Cost (A+B+C)=					
Indirect Cost:					
Profit					
OCM					
[Sum of (EDC+ OCM + PROFIT) x 12%] TAX					
Total Cost =					
Unit Cost =					

IV. METALS

Quantity: 221.94
Unit: sqm.

A. Materials:				
<u>Description</u>	<u>Qty.</u>	<u>Unit</u>	<u>Unit Cost</u>	<u>Amount</u>
<u>Steel Stair (To 2nd Floor)</u>				
3mm Thk. 50mm x 150mm C-Channel Stringer (6m length)	2	pcs.		
2mm thk. 4' x 8' S/S Checkered Plate	3	pcs.		
1.5" x 1.5" x 6m Angle Bars	14	pcs.		
10mm Thk. 4' x 8' MS Base Plate (For general metal works baseplate use)	2	pcs.		
1mm Thk. 1 1/2" x 1 1/2" S/S Square Tube Post (6m length)	2	pcs.		
50mmx50mm S/S Tubular Handrail (6m length)	2	pcs.		
<u>Steel Stair (Ground Floor Access)</u>				
1mm Thk. 1 1/2" x 1 1/2" S/S Square Tube Post (6m length)	1	pcs.		
50mmx50mm S/S Tubular Handrail (6m length)	1	pcs.		
<u>Railings (Corridor)</u>				
50mmx50mm S/S Tubular Handrail (6m length)	2	pcs.		
1mm Thk. 1 1/2" x 1 1/2" S/S Square Tube Post (6m length)	2	pcs.		
1mm Thk. 1" x 1" x S/S Square Tube (6m length)	12	pcs.		
<u>Post (Stairs)</u>				
GI Pipe, 3", Sch40, Seamless (6m length)	1	length		
<u>PWD Ramp</u>				
50mmx50mm S/S Tubular Handrail (6m length)	3	pcs.		
1mm Thk. 1 1/2" x 1 1/2" S/S Square Tube Post (6m length)	2	pcs.		
<u>PWD Toilet</u>				
<u>Floor</u>				
2mm thk. 4' x 8' S/S Checkered Plate	2	pcs.		
3mm Thk. 50mm x 150mm C-Channel Stringer (6m length)	6	pcs.		
<u>Wall (1.2m High)</u>				
2mm thk. 4' x 8' S/S Checkered Plate	4	pcs.		
<u>Post</u>				
GI Pipe, 3", Sch40, Seamless (6m length)	4	length		
<u>Beam</u>				
3mm Thk. 50mm x 150mm C-Channel Stringer (6m length)	2	length		
Flip-up Grab Bar	1	set		
L-type Grab Bar	1	set		
<u>ACCU Support</u>				
<u>Second Floor Level</u>				
4mm Thk. 2" x 2" x 6m Angle Bars	13	pcs		

Consumables (15% of material Cost) (welding rods, etc.)	1	lot			
(other work item not mentioned but necessary to complete the Metals)					
Material Cost:					
B. Equipment:					
<u>Description</u>	<u>Qty.</u>	<u>Days</u>	<u>Rental / Day</u>	<u>Amount</u>	
Minor Tools(15% of Labor cost)	1	Lot			
C. Labor:					
<u>Description</u>	<u>Qty.</u>	<u>Days</u>	<u>Rate/Day</u>	<u>Amount</u>	
Foreman					
labourer/Helper					
Welder					
Labor Cost:					
Total Direct Cost (A+B+C)=					
Indirect Cost:					
Profit					
OCM					
[Sum of (EDC+ OCM + PROFIT) x 12%] TAX					
Total Cost =					
Unit Cost =					

V. SPECIALTY WORKS

Quantity: 221.94
Unit: sqm.

A. Materials:					
<u>Description</u>	<u>Qty.</u>	<u>Unit</u>	<u>Unit Cost</u>	<u>Amount</u>	
40' High Cube Shipping Reefer Container (used) (including delivery)	3	sets			
Consumables(10% of material Cost) (repair of defects, waterproofing)	1	lot			
UP Cebu & Data Commons Acrylic Signage (supply & install) W1715mm X H700mm X D50mm	1	lot			
<u>Furnitures (supply & install)</u>					
Swivel Clerical Chair w/ Armrest Fabric seat & back, PVC armrest & starbase	13	sets			
Freestanding Table L120cm x W60cm x H75cm MFC table, Bullnose edge w/ Pencil Drawer	13	sets			
Table L80cm x W80cm x H75cm	3	sets			
Freestanding Table L160cm x W60cm x H75cm MFC table, Bullnose edge, steel legs	1	set			
Stackable Chair Plastic seat & back (Black) Chrome Frame	8	sets			

Base Cabinet (supply & install) L90cm x W56cm x H85cm	4	sets			
Hanging Cabinet (supply & install) L90cm x W33cm x H72cm	2	sets			
Vegetation surrounding MRF Thai Bamboo (supply & plant)	1	lot			
HCFC-123 Fire Extinguisher 20 lbs.	8	sets			
including labor & equipment					
(other work item not mentioned but necessary to complete the Specialty Works)					
Material Cost:					
B. Equipment:					
<u>Description</u>	<u>Qty.</u>	<u>Days</u>	<u>Rental / Day</u>	<u>Amount</u>	
Minor Tools(15% of Labor cost)	1	Lot			
					P 0.00
C. Labor:					
<u>Description</u>	<u>Qty.</u>	<u>Days</u>	<u>Rate/Day</u>	<u>Amount</u>	
Foreman					
labourer/Helper					
Painter					
Labor Cost:					
Total Direct Cost (A+B+C)=					
Indirect Cost:					
Profit					
OCM					
[Sum of (EDC+ OCM + PROFIT) x 12%] TAX					
Total Cost =					
Unit Cost =					

VI. CARPENTRY

Quantity: 221.94
Unit: sqm.

A. Materials:					
<u>Description</u>	<u>Qty.</u>	<u>Unit</u>	<u>Unit Cost</u>	<u>Amount</u>	
Ground Floor					
<u>Walls</u>					
9mm thk. Gypsum Board	39.00	pcs.			
0.5mm Thk. Carrying Channel 12mm x 38mm (5 meters)	119.00	pcs.			
<u>Ceiling</u>					
9mm thk. Gypsum Board	16.00	pcs.			
0.5mm Thk.19mm x 50mm Double Furring (5 meters)	55.00	pcs.			
Second Floor					
<u>Walls</u>					
9mm thk. Gypsum Board	73.00	pcs.			
0.5mm Thk. Carrying Channel 12mm x 38mm (5 meters)	227.00	pcs.			

<u>Ceiling</u>					
9mm thk. Gypsum Board	33.00	pcs.			
0.5mm Thk.19mm x 50mm Double Furring (5 meters)	92.00	pcs.			
Consumables(5% of material Cost)	1.00	lot			
(other work item not mentioned but necessary to complete the Carpentry)					
Material Cost:					
B. Equipment:					
	<u>Description</u>	<u>Qty.</u>	<u>Days</u>	<u>Rental / Day</u>	<u>Amount</u>
Minor Tools(15% of Labor cost)		1	Lot		
Equipment Cost:					
C. Labor:					
	<u>Description</u>	<u>Qty.</u>	<u>Days</u>	<u>Rate/Day</u>	<u>Amount</u>
Foreman					
labourer/Helper					
Carpenter					
Labor Cost:					
Total Direct Cost (A+B+C)=					
Indirect Cost:					
Profit					
OCM					
[Sum of (EDC+ OCM + PROFIT) x 12%] TAX					
Total Cost =					
Unit Cost =					

VII. THERMAL & MOISTURE PROTECTION

Quantity: 221.94
Unit: sqm.

A. Materials:					
	<u>Description</u>	<u>Qty.</u>	<u>Unit</u>	<u>Unit Cost</u>	<u>Amount</u>
Walls					
<u>Ground Floor</u>					
Rockwool Insulation		30	rolls		
50mm Thk. X 0.60m x 5m					
<u>2nd Floor</u>					
Rockwool Insulation		59	rolls		
50mm Thk. X 0.60m x 5m					
Roof					
<u>Main Roof</u>					
GA 25 x 4' wide Rib-Type Roofing (Prepainted)		187	lm		
4mm Thk. G.I. Gutter (Painted) 8' length		7	length		
4mm Thk. G.I. Gutter End Flashing (Painted) 8' length		23	length		
12mm Thk. 12" Senepa Fascia Board 8' length		23	length		
10.00mm Thk. Double Insulation Foam (50 meters roll) (for main & secondary roof)		1	rolls		
<u>Rafter</u>					
1.5mm Thk. B.I. Tubular 50mm x 150mm (6m length)		10	pcs.		

<u>Girt</u>					
1.5mm Thk. B.I. Tubular 50mm x 150mm (6m length)	11	pcs.			
6mm Thk. 2"x2" x 6m Angle Bar (Purlins Clip Angle)	3	length			
10mm Ø Round Bar x 6m (Sag Rods)	22	length			
2"x3" x 6m C-Purlin Roof Framing	31	length			
<u>Cross Brace</u>					
16mm Ø Round Bar x 6m	12	length			
Turnbuckle	8	sets			
Consumables (5% of material Cost)	1	lot			
(other work item not mentioned but necessary to complete the Thermal & Moisture Protection)					
Material Cost:					
B. Equipment:					
	<u>Description</u>	<u>Qty.</u>	<u>Days</u>	<u>Rental / Day</u>	<u>Amount</u>
Minor Tools(15% of Labor cost)		1	Lot		
Equipment Cost:					
C. Labor:					
	<u>Description</u>	<u>Qty.</u>	<u>Days</u>	<u>Rate/Day</u>	<u>Amount</u>
Foreman					
labourer/Helper					
Installer/Welder					
Labor Cost:					
Total Direct Cost (A+B+C)=					
Indirect Cost:					
Profit					
OCM					
[Sum of (EDC+ OCM + PROFIT) x 12%] TAX					
Total Cost =					
Unit Cost =					

VIII. DOORS & WINDOWS

Quantity: 1.00
Unit: Lot

A. Materials:					
	<u>Description</u>	<u>Qty.</u>	<u>Unit</u>	<u>Unit Cost</u>	<u>Amount</u>
UPVC w/ Glass Door complete w/ Door Jamb complete w/ Hardware & Accessories		3	sets		
PVC Door w/ Door Jamb, complete w/ Hardware & Accessories		2	sets		
Sliding Glass Windows complete w/ Hardware & Accesories		8	sets		
Awning Glass Windows complete w/ Hardware & Accesories		2	sets		
Awning Glass Windows (Toilet) complete w/ Hardware & Accesories		1	sets		

(other work item not mentioned but necessary to complete the Doors & Windows)					
Material Cost:					
B. Equipment:					
	<u>Description</u>	<u>Qty.</u>	<u>Days</u>	<u>Rental / Day</u>	<u>Amount</u>
	Minor Tools(15% of Labor cost)	1	Lot		
Equipment Cost:					
C. Labor:					
	<u>Description</u>	<u>Qty.</u>	<u>Days</u>	<u>Rate/Day</u>	<u>Amount</u>
	Foreman				
	labourer/Helper				
	Installer				
Labor Cost:					
Total Direct Cost (A+B+C)=					
Indirect Cost:					
Profit					
OCM					
[Sum of (EDC+ OCM + PROFIT) x 12%] TAX					
Total Cost =					
Unit Cost =					

XIV. FINISHES

Quantity: 221.94
Unit: sqm.

A. Materials:					
	<u>Description</u>	<u>Qty.</u>	<u>Unit</u>	<u>Unit Cost</u>	<u>Amount</u>
Ground Floor					
<u>Exterior Walls</u>					
	Arcylic Semi-Gloss Latex Paint (2 coats)	4	gal.		
<u>Interior Walls</u>					
	Interior Primer	4	gal.		
	Arcylic Semi-Gloss Latex Paint (1 coat)	4	gal.		
<u>Ceiling</u>					
	Interior Primer	2	gal.		
	Arcylic Semi-GlossPaint Latex (1 coat)	2	gal.		
<u>Floor</u>					
	Rubberized Linoleum Sheet	114	sqm		
	Premium Contact Cement	7	gal.		
	Epoxy Coating	1	gal.		
<u>Metal Works</u>					
	Red Lead Primer	2	gal.		
	Quick Drying Enamel Paint	2	gal.		
Second Floor					
<u>Exterior Walls</u>					
	Arcylic Semi-Gloss Latex Paint (2 coats)	13	gal.		
<u>Interior Walls</u>					
	Interior Primer	9	gal.		
	Arcylic Semi-GlossPaint Latex (1 coat)	9	gal.		

<u>Ceiling</u>					
Interior Primer	4	gal.			
Arcylic Semi-GlossPaint Latex (1 coat)	4	gal.			
<u>Floor</u>					
Rubberized Linoleum Sheet	112	sqm			
Premium Contact Cement	7	gal.			
Epoxy Coating	1	gal.			
Consumables (5% of material Cost)	1.00	lot			
(other work item not mentioned but necessary to complete the Finishes)					
Material Cost:					
B. Equipment:					
	<u>Description</u>	<u>Qty.</u>	<u>Days</u>	<u>Rental / Day</u>	<u>Amount</u>
Minor Tools(15% of Labor cost)		1	Lot		
Equipment Cost:					
C. Labor:					
	<u>Description</u>	<u>Qty.</u>	<u>Days</u>	<u>Rate/Day</u>	<u>Amount</u>
Foreman					
labourer/Helper					
Painter/Installer					
Labor Cost:					
Total Direct Cost (A+B+C)=					
Indirect Cost:					
Profit					
OCM					
[Sum of (EDC+ OCM + PROFIT) x 12%] TAX					
Total Cost =					
Unit Cost =					

X. PLUMBING

Quantity: 1.00
Unit: Lot

A. Materials:					
	<u>Description</u>	<u>Qty.</u>	<u>Unit</u>	<u>Unit Cost</u>	<u>Amount</u>
<u>Water Supply Lines (PPR)</u>					
25mm Ø		5	length		
1"Ø Tee		2	pcs.		
1"Ø 90deg. Elbow		3	pcs.		
1"Ø Union Brass		6	pcs.		
1"Ø Gate Valve		1	pcs.		
1"Ø Swing Check Valve		1	pcs.		
<u>Sanitary & Storm Drainage System</u>					
110mm Ø PVC Pipe		13	length		
63mm Ø PVC Pipe		8	length		
3" dia PVC Downspout		8	pcs.		
2"x3" PVC DS Elbow		6	pcs.		
4" Ø PVC C.O.		4	pcs.		
Wye		3	pcs.		
Downspout Strainer Stainless		3	sets		
P-trap		2	pcs.		

<u>Plumbing Fixtures, Accessories & Appurtenances</u>					
Water Closet	1	sets			
Bidet	1	sets			
Lavatory	1	sets			
Floor Drain	1	sets			
Faucet	2	sets			
PE Horizontal Septic Tank, 2.5m3	1	sets			
Catch Basin	1	lot			
Consumables (5% of material Cost)	1	lot			
(other work item not mentioned but necessary to complete the Auxiliary Works)					
Material Cost:					
B. Equipment:					
<u>Description</u>	<u>Qty.</u>	<u>Days</u>	<u>Rental / Day</u>	<u>Amount</u>	
Minor Tools(15% of Labor cost)	1	Lot			
Equipment Cost:					P 0.00
C. Labor:					
<u>Description</u>	<u>Qty.</u>	<u>Days</u>	<u>Rate/Day</u>	<u>Amount</u>	
Foreman					
labourer/Helper					
Plumber					
Labor Cost:					
Total Direct Cost (A+B+C)=					
Indirect Cost:					
Profit					
OCM					
[Sum of (EDC+ OCM + PROFIT) x 12%] TAX					
Total Cost =					
Unit Cost =					

XI. ELECTRICAL

Quantity: 1.00
Unit: Lot

A. Materials:					
<u>Description</u>	<u>Qty.</u>	<u>Unit</u>	<u>Unit Cost</u>	<u>Amount</u>	
Pvc Pipe 20mm2 dia.	596	lm			
Pvc Solvent Cement 300cc	2	cans			
G.I. Wires #16	2	kgs			
Electrical Tape Big, Armak	5	pcs			
Junction Box Metal 4x4	28	pcs			
Utility Box Metal 2 x 4	22	pcs			
Special Convenience Outlet 3 Prong	1	set			
Ordinary Convenience Outlet 3 Prong	21	sets			
30 Amps. Nema 3R Circuit Breaker w/ enclosure (weatherproof)	5	sets			

Troofer Lights 36 watts	3	sets			
Pin Lights 9 watts	25	sets			
3.5mm2 thhn / thwn wire	1095	lm			
5.5mm2 thhn / thwn wire	322.5	lm			
8.0mm2 thhn / thwn wire	302.5	lm			
Pull Box (as per actual site condition)	1.00	lot			
Consumables (5% of material Cost)	1.00	lot			
(other work item not mentioned but necessary to complete the Electrical Works)					
Material Cost:					
B. Equipment:					
<u>Description</u>	<u>Qty.</u>	<u>Days</u>	<u>Rental / Day</u>	<u>Amount</u>	
Minor Tools(15% of Labor cost)	1	Lot			
Equipment Cost: P					0.00
C. Labor:					
<u>Description</u>	<u>Qty.</u>	<u>Days</u>	<u>Rate/Day</u>	<u>Amount</u>	
Foreman					
labourer/Helper					
Electrician					
Labor Cost:					
Total Direct Cost (A+B+C)=					
Indirect Cost:					
Profit					
OCM					
[Sum of (EDC+ OCM + PROFIT) x 12%] TAX					
Total Cost =					
Unit Cost =					

XII. MECHANICAL

Quantity: 1.00
Unit: Lot

A. Materials:					
<u>Description</u>	<u>Qty.</u>	<u>Unit</u>	<u>Unit Cost</u>	<u>Amount</u>	
2 HP Split Type Air Conditioning Unit (Supply & Install)	6	sets			
150 KVA - 60hZ Silent Type Genset (Supply & Install)	1	set			
Consumables (5% of material Cost)	1.00	lot			
(other work item not mentioned but necessary to complete the Auxiliary Works)					
Material Cost:					
B. Equipment:					
<u>Description</u>	<u>Qty.</u>	<u>Days</u>	<u>Rental / Day</u>	<u>Amount</u>	
Minor Tools(15% of Labor cost)	1	Lot			
Equipment Cost: P					0.00

C. Labor:					
	<u>Description</u>	<u>Qty.</u>	<u>Days</u>	<u>Rate/Day</u>	<u>Amount</u>
	Foreman				
	labourer/Helper				
	Electrician/Installer				
Labor Cost:					
Total Direct Cost (A+B+C)=					
Indirect Cost:					
Profit					
OCM					
[Sum of (EDC+ OCM + PROFIT) x 12%] TAX					
Total Cost =					
Unit Cost =					

XIII. ELECTRONICS

Quantity: 1.00
Unit: Lot

A. Materials:					
	<u>Description</u>	<u>Qty.</u>	<u>Unit</u>	<u>Unit Cost</u>	<u>Amount</u>
	Pvc Pipe 20mm2 dia.	852	lm		
	Pvc Pipe 50mm2 dia.	24	lm		
	Utility Box 2 x 4 Metal Gauge 16	17	pcs		
	Junction Box Metal 4 x 4 Gauge 16	6	pcs		
	Pvc Solvent Cement 300cc	2	cans		
	G. I. Wires # 16	3	kls.		
	Pull Box (as per actual site condition)	1.00	lot		
	LC-LC Single Mode Fiber Patch Cable Duplex	1	pc		
	Cat6 Slimtype Patch Cable 1M - blue	38	pc		
	2 Ft Wall mount Cabinet With PDU, 2 Fans	1	pc		
	Managed Switch 48 port POE 4x10G uplinks	1	unit		
	Smart UPS Rack Mount On-Line 1000VA 900W	1	unit		
	4MP Indoor Dome IP Camera IR	3	unit		
	10G-LR SFP+	2	pc		
	Smoke Detector	8	sets		
	Consumables (5% of material Cost)	1.00	lot		
(other work item not mentioned but necessary to complete the Auxiliary Works)					
Material Cost:					
B. Equipment:					
	<u>Description</u>	<u>Qty.</u>	<u>Days</u>	<u>Rental / Day</u>	<u>Amount</u>
	Minor Tools(15% of Labor cost)	1	Lot		
Equipment Cost:					P 0.00

C. Labor:					
	Description	Qty.	Days	Rate/Day	Amount
	Foreman				
	Labourer/Helper				
	Installer/ Technician				
					Labor Cost:
					Total Direct Cost (A+B+C)=
					Indirect Cost:
					Profit
					OCM
					[Sum of (EDC+ OCM + PROFIT) x 12%] TAX
					Total Cost =
					Unit Cost =


PREPARED BY:

Ar. John Ellis C. Acosta
Senior Architectural Associate

ENDORSED:

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ENDORSED:


Dr. Hazel A. Trapero
Head, Office of the Campus Architect


ENDORSED:


Engr. Nicodimus R. Delda
Senior Engineering Associate

ENDORSED:


Jonathan P. Victolero
Information Technology Center (ITC)

APPROVED BY:


Atty. Leo B. Malagar
Chancellor, UP Cebu

REPUBLIC OF THE PHILIPPINES

PROJECT TITLE : PROPOSED 2-STOREY DATA CENTER (PHASE 1 & 2)
GROSS FLOOR AREA : 219.96 SQ.M.
LOCATION : UP CEBU, LAHUG, CEBU CITY
SUBJECT : PERMITS & PROFESSIONAL LIABILITY
ABC : Php1,199,676.20

BILL OF QUANTITIES

ITEM. NO.	DESCRIPTION	UNIT	QTY.	AMOUNT
I	PROFESSIONAL LIABILITY			
	ARCHITECT (1.5% of PROJECT CONSTRUCTION COST)			
	CIVIL ENGINEER			
	ELECTRICAL ENGINEER			
	MASTER PLUMBER			
	MECHANICAL ENGINEER			
	ELECTRONICS ENGINEER			
	Sub-total for Item No. I	Lot	1	
II.	PRODUCTION COST			
	Sub-total for Item No. II	Lot	1	
III.	PERMITTING FEE			
	LOCATIONAL CLEARANCE (CPDO - ZONING)			
	BUILDING PERMIT (OBO & BFP)			
	OCCUPANCY PERMIT (OBO & BFP)			
	VECO APPLICATION (POWER SUPPLY, TRANSFORMER)			
	Sub-total for Item No. III	Lot	1	
	TOTAL PROJECT COST			

PREPARED BY:

Ar. John Ellis C. Acosta
 Senior Architectural Associate

ENDORSED:



Engr. Nicodimus R. Delda
 Senior Engineering Associate

ENDORSED:

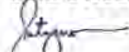
Engr. Ruel T. Lomod
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ENDORSED:



Jonathan P. Victolero
 Information Technology Center (ITC)

ENDORSED:



Dr. Hazel A. Trapero
 Head, Office of the Campus Architect

APPROVED BY:



Atty. Leo B. Malagar
 Chancellor, UP Cebu

Section IX. 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; **and**
- ☐ d. Documents required in the BDS
- ☐ (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.

Financial Documents

- ☐ (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.

II. FINANCIAL COMPONENT ENVELOPE

- ☐ (j) Original of duly signed and accomplished Financial Bid Form; **and**

Other documentary requirements under RA No. 9184

- ☐ (k) Original of duly signed Bid Prices in the Bill of Quantities; **and**
- ☐ (l) 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**
- ☐ (m) Cash Flow by Quarter.

