



## Bid Notice Abstract

### Invitation to Bid (ITB)

**Reference Number** 13292171  
**Procuring Entity** CARLOS HILADO MEMORIAL STATE UNIVERSITY  
**Title** Procurement of Design and Build for the Construction of the Academic Building (Business Education Complex Phase I) - Fortune Towne Campus  
**Area of Delivery** Negros Occidental

|                                          |                                                                                                                                                                                                     |                              |                     |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------|
| <b>Solicitation Number:</b>              | CHMSU 26-031-1015-I                                                                                                                                                                                 | <b>Status</b>                | <b>Pending</b>      |
| <b>Trade Agreement:</b>                  | Implementing Rules and Regulations                                                                                                                                                                  | <b>Associated Components</b> | 11                  |
| <b>Procurement Mode:</b>                 | Public Bidding                                                                                                                                                                                      | <b>Bid Supplements</b>       | 0                   |
| <b>Classification:</b>                   | Civil Works                                                                                                                                                                                         | <b>Document Request List</b> | 0                   |
| <b>Category:</b>                         | Construction Projects                                                                                                                                                                               | <b>Date Published</b>        | 16/10/2026          |
| <b>Approved Budget for the Contract:</b> | PHP 54,803,000.00                                                                                                                                                                                   | <b>Last Updated / Time</b>   | 15/10/2026 18:16 PM |
| <b>Delivery Period:</b>                  | 330 Day/s                                                                                                                                                                                           | <b>Closing Date / Time</b>   | 10/11/2026 09:00 AM |
| <b>Client Agency:</b>                    |                                                                                                                                                                                                     |                              |                     |
| <b>Contact Person:</b>                   | Rowena De la Vida Prado<br>Administrative Assistant II<br>Mabini Street<br>Talisay City<br>Negros Occidental<br>Philippines 6115<br>63-34-7120005 Ext.142<br>63-939-9296624<br>bac.sec@chmsu.edu.ph |                              |                     |

#### Description

CARLOS HILADO MEMORIAL STATE UNIVERSITY  
BIDS AND AWARDS COMMITTEE  
TALISAY CITY, NEGROS OCCIDENTAL  
INVITATION TO BID

FOR THE PROCUREMENT OF DESIGN AND BUILD FOR THE CONSTRUCTION OF THE ACADEMIC BUILDING (BUSINESS EDUCATION COMPLEX PHASE I) - FORTUNE TOWNE CAMPUS  
CHMSU 26-031-1015-I

1. Carlos Hilado Memorial State University, through the Corporate Budget for the Contract of 2026 approved by the governing Board (MDS/GAA), intends to apply the sum of FIFTY-FOUR MILLION EIGHT HUNDRED THREE THOUSAND PESOS (Php 54,803,000.00) ONLY being the Approved Budget for the Contract (ABC) to payments under the contract for the PROCUREMENT OF DESIGN AND BUILD FOR THE CONSTRUCTION OF ACADEMIC BUILDING (BUSINESS EDUCATION COMPLEX PHASE I)-FORTUNE TOWNE CAMPUS. Bids received in excess of the ABC shall be automatically rejected at bid opening.

2. Carlos Hilado Memorial State University now invites bids for the above Procurement Project. Completion of the Works is required within THREE HUNDRED THIRTY (330) calendar days upon receipt of Notice to Proceed. 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 the 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 CARLOS HILADO MEMORIAL STATE UNIVERSITY and inspect the Bidding Documents at the address given below from 8:00 A.M. to 5:00 P.M.

5. A complete set of Bidding Documents may be acquired by interested bidders on October 16 – November 10, 2026 (9:00A.M.) from given address and website/s below and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of Fifty Thousand Pesos (Php 50,000.00) Only. The Procuring Entity shall allow the bidder to present its proof of payment for the fees.

6. Carlos Hilado Memorial State University will hold a Pre-Bid conference at 9:30 A.M., on October 27, 2026 at Bidding Room, 2/F Supply and Property Management Bldg., Brgy. Zone 1, Mabini St., Talisay City, Negros Occidental and or through video conferencing or webcasting via Zoom Meeting with ID No. 504 036 7488, Meeting Password 102726, which shall be open to prospective bidders.

7. Bids must be duly received by the BAC Secretariat through (i) manual submission at the office address as indicated below, (ii) online or electronic submission as indicated below, or (iii) both on or before 9:00 A.M., November 10, 2026. Late bids shall not be accepted.

Bids may be submitted through electronic mail to bac.sec@chmsu.edu.ph provided that the bidding documents are compressed into two (2) separate archived folders (zip or rar format) and which each folder shall be labelled as "First Envelope\_Name of Company\_Project Reference Number" and "Second Envelope\_Name of Company\_Project Reference Number" and each is uniquely password-protected;

Bidders must submit the printed copies (Original, Copy 1 and Copy 2) of their bidding documents within 3 calendar days from bid opening.

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 at 9:30 A.M., on November 10, 2026 at the Bidding Room, 2/F Supply and Property Management Bldg., Brgy. Zone 1, Mabini St., Talisay City, Negros Occidental and/or through Zoom Meeting ID No. 504 036 7488, Meeting Password 111026. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.

10. Carlos Hilado Memorial State University reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised Implementing Rules and Regulations (IRR) of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.

11. For further information, please refer to:

ENGR. SHERWIN R. ILIGAN  
Head, PMU/BAC Secretariat  
Carlos Hilado Memorial State University  
Bidding Room, 2/F Supply and Property Management Bldg.  
Brgy. Zone 1, Mabini St.,  
Talisay City, Negros Occidental  
Email Add.: bac.sec@chmsu.edu.ph  
Telephone Nos.: (034) 454-0529; 454-0584 local 142  
Mobile No.: 0920-5833046  
Website: chmsu.edu.ph

12. You may visit the following websites:

For downloading of Bidding Documents: chmsu.edu.ph

For online bid submission: bac.sec@chmsu.edu.ph

MA. RIZA T. MANALO, Ph.D.  
BAC Chairperson

**Line Items**

| Item No. | Product/Service Name | Description | Quantity UOM | Budget (PHP) |
|----------|----------------------|-------------|--------------|--------------|
|----------|----------------------|-------------|--------------|--------------|

|                           |             |                                                                                                                          |                                                                                                                                                                                                                                      |     |               |
|---------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---------------|
| 1                         | ONE (1) LOT | Design and Build for the Construction of the Academic Building (Business Education Complex Phase I)-Fortune Towne Campus | 1                                                                                                                                                                                                                                    | Lot | 54,803,000.00 |
| <b>Pre-bid Conference</b> |             |                                                                                                                          |                                                                                                                                                                                                                                      |     |               |
| <b>Date</b>               |             | <b>Time</b>                                                                                                              | <b>Venue</b>                                                                                                                                                                                                                         |     |               |
| 27/10/2026                |             | 9:30:00 AM                                                                                                               | Bidding Room, 2/F Supply and Property Management Bldg., Brgy. Zone 1, Mabini St., Talisay City, Negros Occidental and or through video conferencing or webcasting via Zoom Meeting with ID No. 504 036 7488, Meeting Password 102726 |     |               |

**Created by** Rowena De la Vida Prado

**Date Created** 15/10/2026

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# Carlos Hilado Memorial State University

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## Bids and Awards Committee

### INVITATION TO BID FOR THE PROCUREMENT OF DESIGN AND BUILD FOR THE CONSTRUCTION OF THE ACADEMIC BUILDING (BUSINESS EDUCATION COMPLEX PHASE I) – FORTUNE TOWNE CAMPUS CHMSU 26-031-1015-I

1. Carlos Hilado Memorial State University, through the Corporate Budget for the Contract of 2026 approved by the governing Board (MDS/GAA), intends to apply the sum of **FIFTY-FOUR MILLION EIGHT HUNDRED THREE THOUSAND PESOS (Php 54,803,000.00) ONLY** being the Approved Budget for the Contract (ABC) to payments under the contract for the **PROCUREMENT OF DESIGN AND BUILD FOR THE CONSTRUCTION OF ACADEMIC BUILDING (BUSINESS EDUCATION COMPLEX PHASE I)-FORTUNE TOWNE CAMPUS**. Bids received in excess of the ABC shall be automatically rejected at bid opening.
2. Carlos Hilado Memorial State University now invites bids for the above Procurement Project. Completion of the Works is required within **THREE HUNDRED THIRTY (330) calendar days upon receipt of Notice to Proceed**. 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 the 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 CARLOS HILADO MEMORIAL STATE UNIVERSITY and inspect the Bidding Documents at the address given below from 8:00 A.M. to 5:00 P.M.
5. A complete set of Bidding Documents may be acquired by interested bidders on **October 16 – November 10, 2026 (9:00A.M.)** from given address and website/s below and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of **Fifty Thousand Pesos (Php 50,000.00) Only**. The Procuring Entity shall allow the bidder to present its proof of payment for the fees.
6. Carlos Hilado Memorial State University will hold a **Pre-Bid conference at 9:30 A.M., on October 27, 2026 at Bidding Room, 2/F Supply and Property Management Bldg., Brgy. Zone 1, Mabini St., Talisay City, Negros Occidental** and or through video conferencing or webcasting via **Zoom Meeting with ID No. 504 036 7488, Meeting Password 102726**, which shall be open to prospective bidders.
7. Bids must be duly received by the BAC Secretariat through (i) manual submission at the office address as indicated below, (ii) online or electronic submission as indicated below, or (iii) both on or before **9:00 A.M., November 10, 2026**. Late bids shall not be accepted.

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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 at **9:30 A.M., on November 10, 2026** at the **Bidding Room, 2/F Supply and Property Management Bldg., Brgy. Zone 1, Mabini St., Talisay City, Negros Occidental** and/or through **Zoom Meeting ID No. 504 036 7488, Meeting Password 111026**. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.



✉ [bac.sec@chmsc.edu.ph](mailto:bac.sec@chmsc.edu.ph)  
☎ (034) 712 0005 local 142

🌐 [chmsc.edu.ph](http://chmsc.edu.ph)

BY: [Signature] DATE: 15 OCT 2026  
OFFICE OF THE AUDITOR

013316  
CARLOS HILADO MEMORIAL STATE  
RECORDS MANAGEMENT OFFICE  
**RECEIVED**

OCT 15 2026

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# Carlos Hilado Memorial State University

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## Bids and Awards Committee

10. Carlos Hilado Memorial State University reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised Implementing Rules and Regulations (IRR) of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.

11. For further information, please refer to:

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Head, PMU/BAC Secretariat  
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Bidding Room, 2/F Supply and Property Management Bldg.  
Brgy. Zone 1, Mabini St.,  
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Email Add.: [bac.sec@chmsu.edu.ph](mailto:bac.sec@chmsu.edu.ph)  
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MA. RIZA T. MANALO, Ph.D.  
BAC Chairperson *96*



 [bac.sec@chmsc.edu.ph](mailto:bac.sec@chmsc.edu.ph)  
 (034) 712 0005 local 142  
 [chmsc.edu.ph](http://chmsc.edu.ph)

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

### **Notes on the Instructions to Bidders**

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

## 1. Scope of Bid

The Procuring Entity, **CARLOS HILADO MEMORIAL STATE UNIVERSITY** invites Bids for the **PROCUREMENT OF DESIGN AND BUILD FOR THE CONSTRUCTION OF THE ACADEMIC BUILDING (BUSINESS EDUCATION COMPLEX PHASE I) – FORTUNE TOWNE CAMPUS**, with Project Identification Number **CHMSU 26-031-1015-I**.

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 2026 in the amount of ***FIFTY-FOUR MILLION EIGHT HUNDRED THREE THOUSAND PESOS (Php 54,803,000.00)***.

2.2. The source of funding is:

a. NGA, the National Expenditure Program.

## 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:

- a. 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 Bidder must submit together with its Bid the documentary requirements of the subcontractor(s) complying with the eligibility criteria stated in **ITB** Clause 5 in accordance with Section 23.4 of the 2016 revised IRR of RA No. 9184 pursuant to Section 23.1 thereof.
- 7.2. 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.

- 7.3. 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 **Bidding Room, 2/F Supply and Property Management Bldg., Brgy. Zone 1, Mabini St., Talisay City, Negros Occidental** or through **Zoom Meeting ID No. 504 036 7488 Meeting Password 102726** as indicated in paragraph 6 of the **IB**.

## **1. 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.

## **2. 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 PCAB License is required, and in case of joint ventures, a valid special PCAB License, 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**.

### **3. 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.

### **4. 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.

### **5. 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.

### **6. 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:*
  - a. Philippine Pesos.

## **7. Bid Security**

- 15.1. The Bidder shall submit a Bid Securing Declaration or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the schedule in the **BDS**.
- 15.2. The Bid and bid security shall be valid until **March 10, 2027 (120 calendar days upon the date of bid opening)**. Any bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

## **8. 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.

## **9. 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**.

## **10. 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.

## **11. 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 16 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.

## **12. 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**.

## **13. 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 **BD**



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

### **Notes on the Bid Data Sheet (BDS)**

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

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

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

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

# Bid Data Sheet

| ITB Clause                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                             |  |               |                    |                             |                       |                      |   |                        |                           |   |                                     |                                             |   |                                     |                                             |   |                   |                           |   |                                      |                                              |   |               |                    |                            |                               |  |  |                    |                                     |   |                     |                           |   |            |                      |   |                                             |                        |   |                       |                               |   |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--|---------------|--------------------|-----------------------------|-----------------------|----------------------|---|------------------------|---------------------------|---|-------------------------------------|---------------------------------------------|---|-------------------------------------|---------------------------------------------|---|-------------------|---------------------------|---|--------------------------------------|----------------------------------------------|---|---------------|--------------------|----------------------------|-------------------------------|--|--|--------------------|-------------------------------------|---|---------------------|---------------------------|---|------------|----------------------|---|---------------------------------------------|------------------------|---|-----------------------|-------------------------------|---|
| 5.2                                         | For this purpose, contracts similar to the Project refer to contracts which have the same major categories of work, which shall be:<br><br>1. Design and Build for Vertical Structures                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                             |  |               |                    |                             |                       |                      |   |                        |                           |   |                                     |                                             |   |                                     |                                             |   |                   |                           |   |                                      |                                              |   |               |                    |                            |                               |  |  |                    |                                     |   |                     |                           |   |            |                      |   |                                             |                        |   |                       |                               |   |
| 7.1                                         | Subcontracting is <b>not allowed</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                             |  |               |                    |                             |                       |                      |   |                        |                           |   |                                     |                                             |   |                                     |                                             |   |                   |                           |   |                                      |                                              |   |               |                    |                            |                               |  |  |                    |                                     |   |                     |                           |   |            |                      |   |                                             |                        |   |                       |                               |   |
| 10.3                                        | Minimum PCAB Registration/ PCAB License<br><br><b>B-MEDIUM A (Above 15 Million up to 75 Million)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                             |  |               |                    |                             |                       |                      |   |                        |                           |   |                                     |                                             |   |                                     |                                             |   |                   |                           |   |                                      |                                              |   |               |                    |                            |                               |  |  |                    |                                     |   |                     |                           |   |            |                      |   |                                             |                        |   |                       |                               |   |
| 10.4                                        | <div>The minimum work experience requirements for Design key personnel are the following:</div> <table><tr><th>Key Personnel</th><th>General Experience</th><th>Relevant Experience (years)</th></tr><tr><td>1. Licensed Architect</td><td>Registered Architect</td><td>3</td></tr><tr><td>2. Structural Engineer</td><td>Registered Civil Engineer</td><td>3</td></tr><tr><td>3. Professional Mechanical Engineer</td><td>Registered Professional Mechanical Engineer</td><td>3</td></tr><tr><td>4. Professional Electrical Engineer</td><td>Registered Professional Electrical Engineer</td><td>3</td></tr><tr><td>5. Master Plumber</td><td>Registered Master Plumber</td><td>3</td></tr><tr><td>6. Professional Electronics Engineer</td><td>Registered Professional Electronics Engineer</td><td>3</td></tr></table> <div>The construction key personnel must meet the required minimum years of experience set below:</div> <table><tr><th>Key Personnel</th><th>General Experience</th><th>Relevant Experience(years)</th></tr><tr><td>Daily required site personnel</td><td></td><td></td></tr><tr><td>1. Project Manager</td><td>Registered Civil Engineer/Architect</td><td>5</td></tr><tr><td>2. Project Engineer</td><td>Registered Civil Engineer</td><td>3</td></tr><tr><td>3. Foreman</td><td>High School Graduate</td><td>3</td></tr><tr><td>4. Construction Safety and Health Personnel</td><td>With HSE/COSH Training</td><td>2</td></tr><tr><td>5. Materials Engineer</td><td>Registered Materials Engineer</td><td>3</td></tr></table> |                             |  | Key Personnel | General Experience | Relevant Experience (years) | 1. Licensed Architect | Registered Architect | 3 | 2. Structural Engineer | Registered Civil Engineer | 3 | 3. Professional Mechanical Engineer | Registered Professional Mechanical Engineer | 3 | 4. Professional Electrical Engineer | Registered Professional Electrical Engineer | 3 | 5. Master Plumber | Registered Master Plumber | 3 | 6. Professional Electronics Engineer | Registered Professional Electronics Engineer | 3 | Key Personnel | General Experience | Relevant Experience(years) | Daily required site personnel |  |  | 1. Project Manager | Registered Civil Engineer/Architect | 5 | 2. Project Engineer | Registered Civil Engineer | 3 | 3. Foreman | High School Graduate | 3 | 4. Construction Safety and Health Personnel | With HSE/COSH Training | 2 | 5. Materials Engineer | Registered Materials Engineer | 3 |
| Key Personnel                               | General Experience                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Relevant Experience (years) |  |               |                    |                             |                       |                      |   |                        |                           |   |                                     |                                             |   |                                     |                                             |   |                   |                           |   |                                      |                                              |   |               |                    |                            |                               |  |  |                    |                                     |   |                     |                           |   |            |                      |   |                                             |                        |   |                       |                               |   |
| 1. Licensed Architect                       | Registered Architect                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3                           |  |               |                    |                             |                       |                      |   |                        |                           |   |                                     |                                             |   |                                     |                                             |   |                   |                           |   |                                      |                                              |   |               |                    |                            |                               |  |  |                    |                                     |   |                     |                           |   |            |                      |   |                                             |                        |   |                       |                               |   |
| 2. Structural Engineer                      | Registered Civil Engineer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3                           |  |               |                    |                             |                       |                      |   |                        |                           |   |                                     |                                             |   |                                     |                                             |   |                   |                           |   |                                      |                                              |   |               |                    |                            |                               |  |  |                    |                                     |   |                     |                           |   |            |                      |   |                                             |                        |   |                       |                               |   |
| 3. Professional Mechanical Engineer         | Registered Professional Mechanical Engineer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3                           |  |               |                    |                             |                       |                      |   |                        |                           |   |                                     |                                             |   |                                     |                                             |   |                   |                           |   |                                      |                                              |   |               |                    |                            |                               |  |  |                    |                                     |   |                     |                           |   |            |                      |   |                                             |                        |   |                       |                               |   |
| 4. Professional Electrical Engineer         | Registered Professional Electrical Engineer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3                           |  |               |                    |                             |                       |                      |   |                        |                           |   |                                     |                                             |   |                                     |                                             |   |                   |                           |   |                                      |                                              |   |               |                    |                            |                               |  |  |                    |                                     |   |                     |                           |   |            |                      |   |                                             |                        |   |                       |                               |   |
| 5. Master Plumber                           | Registered Master Plumber                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3                           |  |               |                    |                             |                       |                      |   |                        |                           |   |                                     |                                             |   |                                     |                                             |   |                   |                           |   |                                      |                                              |   |               |                    |                            |                               |  |  |                    |                                     |   |                     |                           |   |            |                      |   |                                             |                        |   |                       |                               |   |
| 6. Professional Electronics Engineer        | Registered Professional Electronics Engineer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3                           |  |               |                    |                             |                       |                      |   |                        |                           |   |                                     |                                             |   |                                     |                                             |   |                   |                           |   |                                      |                                              |   |               |                    |                            |                               |  |  |                    |                                     |   |                     |                           |   |            |                      |   |                                             |                        |   |                       |                               |   |
| Key Personnel                               | General Experience                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Relevant Experience(years)  |  |               |                    |                             |                       |                      |   |                        |                           |   |                                     |                                             |   |                                     |                                             |   |                   |                           |   |                                      |                                              |   |               |                    |                            |                               |  |  |                    |                                     |   |                     |                           |   |            |                      |   |                                             |                        |   |                       |                               |   |
| Daily required site personnel               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                             |  |               |                    |                             |                       |                      |   |                        |                           |   |                                     |                                             |   |                                     |                                             |   |                   |                           |   |                                      |                                              |   |               |                    |                            |                               |  |  |                    |                                     |   |                     |                           |   |            |                      |   |                                             |                        |   |                       |                               |   |
| 1. Project Manager                          | Registered Civil Engineer/Architect                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5                           |  |               |                    |                             |                       |                      |   |                        |                           |   |                                     |                                             |   |                                     |                                             |   |                   |                           |   |                                      |                                              |   |               |                    |                            |                               |  |  |                    |                                     |   |                     |                           |   |            |                      |   |                                             |                        |   |                       |                               |   |
| 2. Project Engineer                         | Registered Civil Engineer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3                           |  |               |                    |                             |                       |                      |   |                        |                           |   |                                     |                                             |   |                                     |                                             |   |                   |                           |   |                                      |                                              |   |               |                    |                            |                               |  |  |                    |                                     |   |                     |                           |   |            |                      |   |                                             |                        |   |                       |                               |   |
| 3. Foreman                                  | High School Graduate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3                           |  |               |                    |                             |                       |                      |   |                        |                           |   |                                     |                                             |   |                                     |                                             |   |                   |                           |   |                                      |                                              |   |               |                    |                            |                               |  |  |                    |                                     |   |                     |                           |   |            |                      |   |                                             |                        |   |                       |                               |   |
| 4. Construction Safety and Health Personnel | With HSE/COSH Training                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2                           |  |               |                    |                             |                       |                      |   |                        |                           |   |                                     |                                             |   |                                     |                                             |   |                   |                           |   |                                      |                                              |   |               |                    |                            |                               |  |  |                    |                                     |   |                     |                           |   |            |                      |   |                                             |                        |   |                       |                               |   |
| 5. Materials Engineer                       | Registered Materials Engineer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3                           |  |               |                    |                             |                       |                      |   |                        |                           |   |                                     |                                             |   |                                     |                                             |   |                   |                           |   |                                      |                                              |   |               |                    |                            |                               |  |  |                    |                                     |   |                     |                           |   |            |                      |   |                                             |                        |   |                       |                               |   |

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|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------|------------------------|-----------------|--|---|------------------|--|---|-----------------|--|---|-----------------|--|---|-------------|--|---|------------|--|---|-----------------|--|---|--------------|--|---|---------|--|---|-------------|--|---|-------------------------|--|---|---------|--|---|------------|--|---|------------|--|---|------------|--|---|---------------|--|---|--------------|--|---|--------------|--|---|
| 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>Service Vehicle</td><td></td><td>1</td></tr><tr><td>One Bagger Mixer</td><td></td><td>1</td></tr><tr><td>Welding Machine</td><td></td><td>1</td></tr><tr><td>Plate Compactor</td><td></td><td>1</td></tr><tr><td>Walk behind</td><td></td><td>1</td></tr><tr><td>Hand Drill</td><td></td><td>5</td></tr><tr><td>Cut off Machine</td><td></td><td>2</td></tr><tr><td>Rebar bender</td><td></td><td>2</td></tr><tr><td>Grinder</td><td></td><td>2</td></tr><tr><td>Jack Hammer</td><td></td><td>2</td></tr><tr><td>Concrete Stick Vibrator</td><td></td><td>4</td></tr><tr><td>Backhoe</td><td></td><td>1</td></tr><tr><td>Dump Truck</td><td></td><td>1</td></tr><tr><td>Water Pump</td><td></td><td>1</td></tr><tr><td>Boom Truck</td><td></td><td>1</td></tr><tr><td>Generator Set</td><td></td><td>1</td></tr><tr><td>Power washer</td><td></td><td>1</td></tr><tr><td>Power Trowel</td><td></td><td>1</td></tr></table> | <u>Equipment</u>       | <u>Capacity</u> | <u>Number of Units</u> | Service Vehicle |  | 1 | One Bagger Mixer |  | 1 | Welding Machine |  | 1 | Plate Compactor |  | 1 | Walk behind |  | 1 | Hand Drill |  | 5 | Cut off Machine |  | 2 | Rebar bender |  | 2 | Grinder |  | 2 | Jack Hammer |  | 2 | Concrete Stick Vibrator |  | 4 | Backhoe |  | 1 | Dump Truck |  | 1 | Water Pump |  | 1 | Boom Truck |  | 1 | Generator Set |  | 1 | Power washer |  | 1 | Power Trowel |  | 1 |
| <u>Equipment</u>        | <u>Capacity</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <u>Number of Units</u> |                 |                        |                 |  |   |                  |  |   |                 |  |   |                 |  |   |             |  |   |            |  |   |                 |  |   |              |  |   |         |  |   |             |  |   |                         |  |   |         |  |   |            |  |   |            |  |   |            |  |   |               |  |   |              |  |   |              |  |   |
| Service Vehicle         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1                      |                 |                        |                 |  |   |                  |  |   |                 |  |   |                 |  |   |             |  |   |            |  |   |                 |  |   |              |  |   |         |  |   |             |  |   |                         |  |   |         |  |   |            |  |   |            |  |   |            |  |   |               |  |   |              |  |   |              |  |   |
| One Bagger Mixer        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1                      |                 |                        |                 |  |   |                  |  |   |                 |  |   |                 |  |   |             |  |   |            |  |   |                 |  |   |              |  |   |         |  |   |             |  |   |                         |  |   |         |  |   |            |  |   |            |  |   |            |  |   |               |  |   |              |  |   |              |  |   |
| Welding Machine         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1                      |                 |                        |                 |  |   |                  |  |   |                 |  |   |                 |  |   |             |  |   |            |  |   |                 |  |   |              |  |   |         |  |   |             |  |   |                         |  |   |         |  |   |            |  |   |            |  |   |            |  |   |               |  |   |              |  |   |              |  |   |
| Plate Compactor         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1                      |                 |                        |                 |  |   |                  |  |   |                 |  |   |                 |  |   |             |  |   |            |  |   |                 |  |   |              |  |   |         |  |   |             |  |   |                         |  |   |         |  |   |            |  |   |            |  |   |            |  |   |               |  |   |              |  |   |              |  |   |
| Walk behind             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1                      |                 |                        |                 |  |   |                  |  |   |                 |  |   |                 |  |   |             |  |   |            |  |   |                 |  |   |              |  |   |         |  |   |             |  |   |                         |  |   |         |  |   |            |  |   |            |  |   |            |  |   |               |  |   |              |  |   |              |  |   |
| Hand Drill              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5                      |                 |                        |                 |  |   |                  |  |   |                 |  |   |                 |  |   |             |  |   |            |  |   |                 |  |   |              |  |   |         |  |   |             |  |   |                         |  |   |         |  |   |            |  |   |            |  |   |            |  |   |               |  |   |              |  |   |              |  |   |
| Cut off Machine         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2                      |                 |                        |                 |  |   |                  |  |   |                 |  |   |                 |  |   |             |  |   |            |  |   |                 |  |   |              |  |   |         |  |   |             |  |   |                         |  |   |         |  |   |            |  |   |            |  |   |            |  |   |               |  |   |              |  |   |              |  |   |
| Rebar bender            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2                      |                 |                        |                 |  |   |                  |  |   |                 |  |   |                 |  |   |             |  |   |            |  |   |                 |  |   |              |  |   |         |  |   |             |  |   |                         |  |   |         |  |   |            |  |   |            |  |   |            |  |   |               |  |   |              |  |   |              |  |   |
| Grinder                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2                      |                 |                        |                 |  |   |                  |  |   |                 |  |   |                 |  |   |             |  |   |            |  |   |                 |  |   |              |  |   |         |  |   |             |  |   |                         |  |   |         |  |   |            |  |   |            |  |   |            |  |   |               |  |   |              |  |   |              |  |   |
| Jack Hammer             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2                      |                 |                        |                 |  |   |                  |  |   |                 |  |   |                 |  |   |             |  |   |            |  |   |                 |  |   |              |  |   |         |  |   |             |  |   |                         |  |   |         |  |   |            |  |   |            |  |   |            |  |   |               |  |   |              |  |   |              |  |   |
| Concrete Stick Vibrator |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 4                      |                 |                        |                 |  |   |                  |  |   |                 |  |   |                 |  |   |             |  |   |            |  |   |                 |  |   |              |  |   |         |  |   |             |  |   |                         |  |   |         |  |   |            |  |   |            |  |   |            |  |   |               |  |   |              |  |   |              |  |   |
| Backhoe                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1                      |                 |                        |                 |  |   |                  |  |   |                 |  |   |                 |  |   |             |  |   |            |  |   |                 |  |   |              |  |   |         |  |   |             |  |   |                         |  |   |         |  |   |            |  |   |            |  |   |            |  |   |               |  |   |              |  |   |              |  |   |
| Dump Truck              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1                      |                 |                        |                 |  |   |                  |  |   |                 |  |   |                 |  |   |             |  |   |            |  |   |                 |  |   |              |  |   |         |  |   |             |  |   |                         |  |   |         |  |   |            |  |   |            |  |   |            |  |   |               |  |   |              |  |   |              |  |   |
| Water Pump              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1                      |                 |                        |                 |  |   |                  |  |   |                 |  |   |                 |  |   |             |  |   |            |  |   |                 |  |   |              |  |   |         |  |   |             |  |   |                         |  |   |         |  |   |            |  |   |            |  |   |            |  |   |               |  |   |              |  |   |              |  |   |
| Boom Truck              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1                      |                 |                        |                 |  |   |                  |  |   |                 |  |   |                 |  |   |             |  |   |            |  |   |                 |  |   |              |  |   |         |  |   |             |  |   |                         |  |   |         |  |   |            |  |   |            |  |   |            |  |   |               |  |   |              |  |   |              |  |   |
| Generator Set           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1                      |                 |                        |                 |  |   |                  |  |   |                 |  |   |                 |  |   |             |  |   |            |  |   |                 |  |   |              |  |   |         |  |   |             |  |   |                         |  |   |         |  |   |            |  |   |            |  |   |            |  |   |               |  |   |              |  |   |              |  |   |
| Power washer            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1                      |                 |                        |                 |  |   |                  |  |   |                 |  |   |                 |  |   |             |  |   |            |  |   |                 |  |   |              |  |   |         |  |   |             |  |   |                         |  |   |         |  |   |            |  |   |            |  |   |            |  |   |               |  |   |              |  |   |              |  |   |
| Power Trowel            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1                      |                 |                        |                 |  |   |                  |  |   |                 |  |   |                 |  |   |             |  |   |            |  |   |                 |  |   |              |  |   |         |  |   |             |  |   |                         |  |   |         |  |   |            |  |   |            |  |   |            |  |   |               |  |   |              |  |   |              |  |   |
| 12                      | <p><b>The Approved Budget for the Contract (ABC) is FIFTY-FOUR MILLION EIGHT HUNDRED THREE THOUSAND PESOS &amp; 00/100 (PhP 54,803,000.00) ONLY.</b></p> <p>Any bid with a financial component exceeding this amount shall not be accepted.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                        |                 |                        |                 |  |   |                  |  |   |                 |  |   |                 |  |   |             |  |   |            |  |   |                 |  |   |              |  |   |         |  |   |             |  |   |                         |  |   |         |  |   |            |  |   |            |  |   |            |  |   |               |  |   |              |  |   |              |  |   |
| 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 <b>PhP. 1,096,060.00 (2% of ABC)</b>, 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 <b>PhP 2,740,150.00 (5% of ABC)</b> if bid security is in Surety Bond.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |                 |                        |                 |  |   |                  |  |   |                 |  |   |                 |  |   |             |  |   |            |  |   |                 |  |   |              |  |   |         |  |   |             |  |   |                         |  |   |         |  |   |            |  |   |            |  |   |            |  |   |               |  |   |              |  |   |              |  |   |
| 19.2                    | <p>Partial bids are not allowed.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                        |                 |                        |                 |  |   |                  |  |   |                 |  |   |                 |  |   |             |  |   |            |  |   |                 |  |   |              |  |   |         |  |   |             |  |   |                         |  |   |         |  |   |            |  |   |            |  |   |            |  |   |               |  |   |              |  |   |              |  |   |
| 20                      | <p>No further Instructions.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                        |                 |                        |                 |  |   |                  |  |   |                 |  |   |                 |  |   |             |  |   |            |  |   |                 |  |   |              |  |   |         |  |   |             |  |   |                         |  |   |         |  |   |            |  |   |            |  |   |            |  |   |               |  |   |              |  |   |              |  |   |
| 21                      | <p>Additional contract documents relevant to the Project:</p> <ol style="list-style-type: none"><li>1) Construction Schedule/GANTT Chart (MS Project Format) &amp; S-curve</li><li>2) Manpower Schedule</li><li>3) Construction Methods</li><li>4) Equipment Utilization Schedule</li><li>5) Construction Safety and Health Program (approved by the DOLE)</li><li>6) PERT/CPM</li><li>7) Statement of Cash Flow &amp; Payment Schedule</li><li>8) Soft Copy of all submitted documents in PDF File (Submit in USB Flash Drive)</li></ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |                 |                        |                 |  |   |                  |  |   |                 |  |   |                 |  |   |             |  |   |            |  |   |                 |  |   |              |  |   |         |  |   |             |  |   |                         |  |   |         |  |   |            |  |   |            |  |   |            |  |   |               |  |   |              |  |   |              |  |   |



## ***Section V. Special Conditions of Contract***

### **Notes on the Special Conditions of Contract**

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

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

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

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

# Special Conditions of Contract

| GCC Clause |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2          | <p>The <b>Intended Completion Date</b> is</p> <p><b>330 calendar days upon receipt of the Notice to Proceed</b></p> <p>Breakdown of 330 calendar days are as follows:</p> <p><b>30 days for design and building permit processing.</b></p> <p><b>300 days for actual construction with 30 days included for unfavorable weather condition.</b></p> <p><i><b>NOTE: The contract duration shall be reckoned from the start date and not from contract effectivity date.</b></i></p>                                                                                                                                                                                                                   |
| 4.1        | <p>The <b>CHMSU</b> shall give possession of all parts of the Site to the Contractor upon receipt of Notice to Proceed by the latter.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 6          | <p>The site investigation reports are:</p> <p><i>Soil bearing capacity test.</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 7.2        | <p><i>In case of permanent structures, such as buildings of types 4 and 5 as classified under the National Building Code of the Philippines and other structures made of steel, iron, or concrete which comply with relevant structural codes (e.g., DPWH Standard Specifications), such as, but not limited to, steel/concrete bridges, flyovers, aircraft movement areas, ports, dams, tunnels, filtration and treatment plants, sewerage systems, power plants, transmission and communication towers, railway system, and other similar permanent structures: Fifteen (15) years</i></p>                                                                                                        |
| 8          | <p>The Contractor shall employ the following <b>Designers during the Design Phase</b> as stated in the BDS.</p> <ol style="list-style-type: none"> <li>1. Licensed Architect</li> <li>2. Structural Engineer</li> <li>3. Professional Mechanical Engineer</li> <li>4. Professional Electrical Engineer</li> <li>5. Master Plumber</li> <li>6. Professional Electronics Engineer</li> </ol> <p>The Contractor shall employ the following <b>Key Personnel during construction</b> as stated in the BDS.</p> <ol style="list-style-type: none"> <li>1. Project Manager</li> <li>2. Project Engineer</li> <li>3. Project Site Engineer</li> <li>4. Construction Safety and Health personnel</li> </ol> |

5. Materials Engineer
6. Electrical Engineer
7. Mechanical Engineer
8. Foreman

The contractor must ensure that nominated and duly approved key personnel and designer will not be demobilized from the project unless replacement is duly evaluated and approved.

The non-availability of the following key personnel from the project site will be subject to penalty/deduction from the next billing:

| No. | Key Personnel                          | Amount of Deduction per Day of Non-appearance |
|-----|----------------------------------------|-----------------------------------------------|
| 1.  | Project Manager                        | P 1000.00                                     |
| 2.  | Project Engineer                       | P800.00                                       |
| 3.  | Project Site Engineer                  | P800.00                                       |
| 4.  | Electrical Engineer                    | P800.00                                       |
| 5.  | Mechanical Engineer                    | P800.00                                       |
| 6.  | Construction Safety & Health Personnel | P700.00                                       |
| 7.  | Foreman                                | P500.00                                       |

The following condition will be ground for withholding of payment for the next billing.

1. Poor supervision and inaction of the concerned contractor to the items and points included on Site Observation Reports (SOR's), Official Letters and other form of instructions and reports related to any observed non-conformity and non-compliance to the relevant clauses of the contract and the technical specifications – P500/ point.
2. Prescribed (PPE's) Personal Protective Equipment
  - 3.a No safety hats – P500/worker/day of occurrence
  - 3.b No safety shoes – P500/worker/day of occurrence
  - 3.c Non- availability or improper use of the body harness and other life-saving equipment on site – P500/worker/day of occurrence.
  - 3.d. Non wearing of face mask – P500/worker/day of occurrence.
3. Non-conformance to the Construction Safety Guidelines for the implementation of all DPWH Infrastructure Projects During the COVID-19 Public Health Crisis (DPWH DO. 35 s.2020) – P2,500/day of occurrence.

|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | <ol style="list-style-type: none"> <li>4. Non-conformance to school guidelines especially the non-smoking policy – P500/day of occurrence.</li> <li>5. Implementation of critical works without permit such as concrete pouring, installation of devices, wires and conduits without prior samples and approval and other forms of work – Php5,000.00/point.</li> <li>6. Non-submission of reports such as but not limited to, the Daily Reports and Look Ahead Schedules– Php. 500.00/day of occurrence and delay.</li> <li>7. Non-submission of brochures and samples of materials prior to installation at site and installation of unapproved materials – Php. 5,000/point.</li> <li>8. Non-availability of pledged equipment and manpower at site. – Php. 500.00/day of occurrence.</li> <li>9. Non-Compliance to the college rules and regulations especially on the non-smoking policy – P500.00/occurrence.</li> </ol> <p>The contractor should show proof of remittances to SSS, BIR, PhilHealth and other governmental agencies for any or all of the deductions being imposed from the its personnel.</p> |
| 10   | a. No day works are applicable to the contract.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 11.1 | The Contractor shall submit the Program of Work to the Procuring Entity's Representative within 7 days of delivery of the Notice of Award.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 11.2 | <p>The period of Program of Work updates is every fifteen (15) days.</p> <p>The amount to be withheld for late submission of an updated Program of Work is FIFTEEN THOUSAND PESOS (Php15,000.00) only. Other relevant rules and regulations as well as communication protocol shall be discussed during the pre-bid conference and shall form part of the contract. Copy of which given to the contractor on the date for the conduct of the pre-construction conference.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 13   | <p>The amount of the advance payment is</p> <p><b>8%</b> - 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.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | <p><b>7% -</b> After submission to procuring entity the documents as proof of mobilization.</p> <p>The full mobilization fund shall be recouped from the regular billing of the contractor up to and until 80% of the contract amount are paid to the contractor.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 14   | <p>Equipment delivered on the site but not completely put in place may include in the progress billing provided that the equipment satisfactorily meet the provided technical specifications and drawings. Furthermore the delivered equipment that is not fully in place can be billed at a maximum of 65%. The remaining 35% will billed after the installation and testing and commissioning of the said equipment.</p> <p>The contractor is responsible for all equipment and materials that is not completely put in place. All equipment that is delivered on the site will be fully accepted after the testing and commissioning and turn-over of the building. This clause does not relieve the contractor from its responsibility and obligation on the one (1) year defects liability period.</p> |
| 15.1 | <p>The date by which operating and maintenance manuals are required during the commissioning of each of the equipment to be installed by the contractor.</p> <p>The date by which “as built” drawings are required will be before the processing of the occupancy permit or fifteen (15) calendar days from the final handing over whichever comes earlier.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 15.2 | <p>The amount to be withheld for failing to produce “as built” drawings and/or operating and maintenance manuals by the date required is TWENTY-FIVE THOUSAND PESOS (Php25,000.00) ONLY for each requirement.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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

### **Notes on the General Conditions of Contract**

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

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

Any complementary information, which may be needed, shall be introduced only through the Special Conditions of Contract.

## 1. Scope of Contract

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

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

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

## 2. Advance Payment and Terms of Payment

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

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

## 3. Performance Security

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

## 4. Inspection and Tests

The Procuring Entity or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Project specifications at no extra cost to the Procuring Entity in accordance with the Generic Procurement Manual. In addition to tests in the **SCC, Section IV (Technical Specifications)** shall specify what inspections and/or tests the Procuring Entity requires, and where they are to be conducted. The Procuring Entity shall notify the Supplier in writing, in a timely manner, of the identity of any representatives retained for these purposes.

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

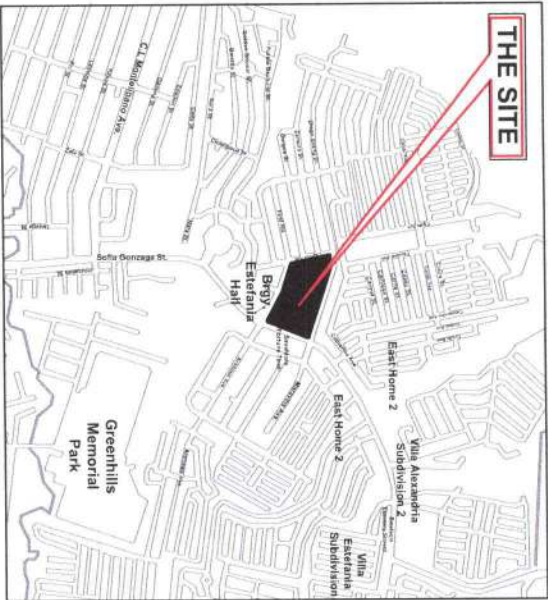
## **5. Warranty**

- 6.1. In order to assure that manufacturing defects shall be corrected by the Supplier, a warranty shall be required from the Supplier as provided under Section 62.1 of the 2016 revised IRR of RA No. 9184.
- 6.2. The Procuring Entity shall promptly notify the Supplier in writing of any claims arising under this warranty. Upon receipt of such notice, the Supplier shall, repair or replace the defective Goods or parts thereof without cost to the Procuring Entity, pursuant to the Generic Procurement Manual.

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

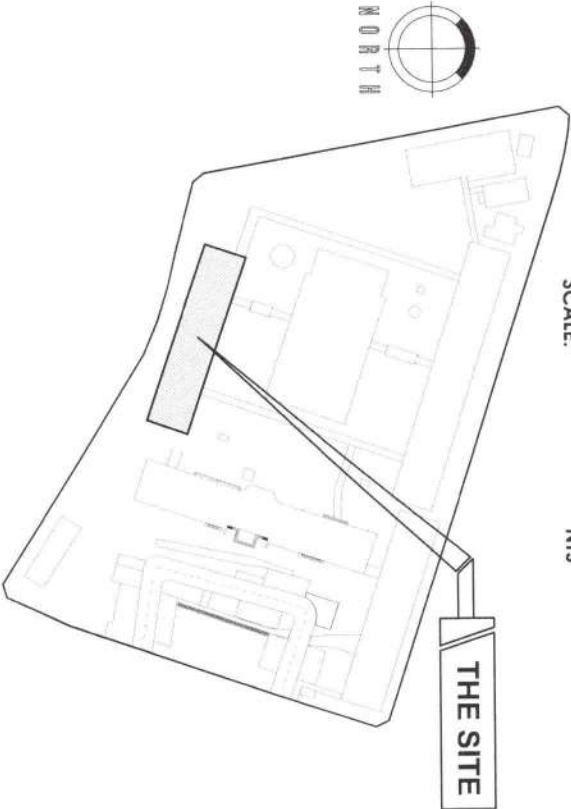
The Supplier's liability under this Contract shall be as provided by the laws of the Republic of the Philippines.

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



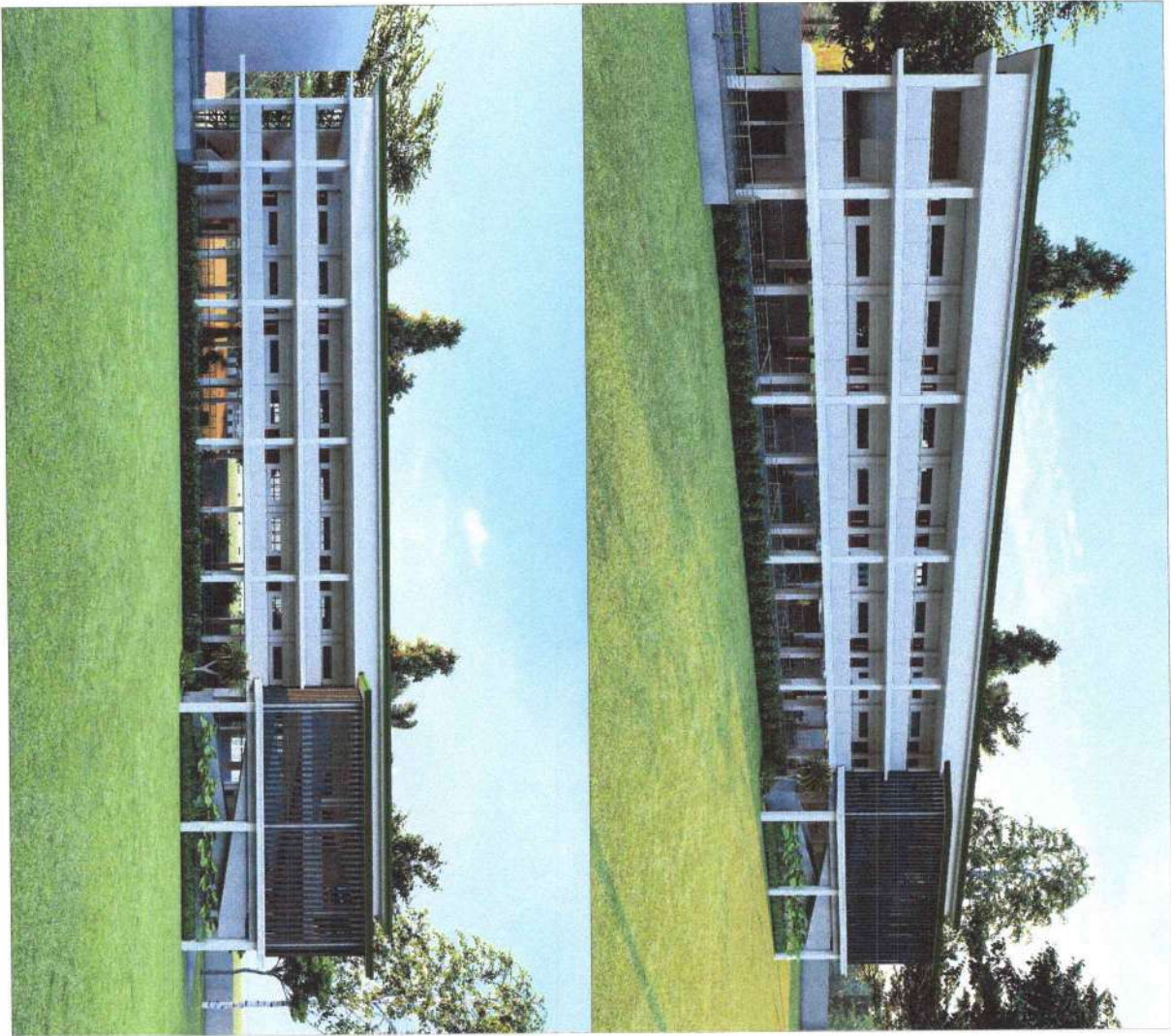
## VICINITY MAP

SCALE: NTS



## SITE DEVELOPMENT PLAN

SCALE: NTS



## PERSPECTIVE

|                                                                                                                                                                                   |                                                                                                                           |                                                                                                                                                      |                                                                                                                                                                |                                                                                                                                                   |                                                                                                                                                                                   |                    |                   |
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| <br>Republic of the Philippines<br>CARLOS HILADO MEMORIAL<br>STATE UNIVERSITY<br>Negros Occidental | PROJECT TITLE:<br><br>CONSTRUCTION OF ACADEMIC BUILDING<br>(BUSINESS EDUCATION COMPLEX PHASE I -<br>FORTUNE TOWNE CAMPUS) | PREPARED BY:<br><br>ARIEL M. ISULT<br>PROJECT DEVELOPMENT OFFICER II | CHECKED BY:<br><br>ENGR. DESIRE O. CHAVEZ<br>PROJECT DEVELOPMENT OFFICER III | RECOMMENDING APPROVAL:<br><br>DIRECTOR, PROJECT MANAGEMENT UNIT | APPROVED BY:<br><br>ENGR. RUSSEL M. TORRE, Ph.D.<br>VICE PRESIDENT FOR ADMINISTRATION & FINANCE | SHEET NO:<br><br>C | PAGE NO:<br><br>S |
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10/07

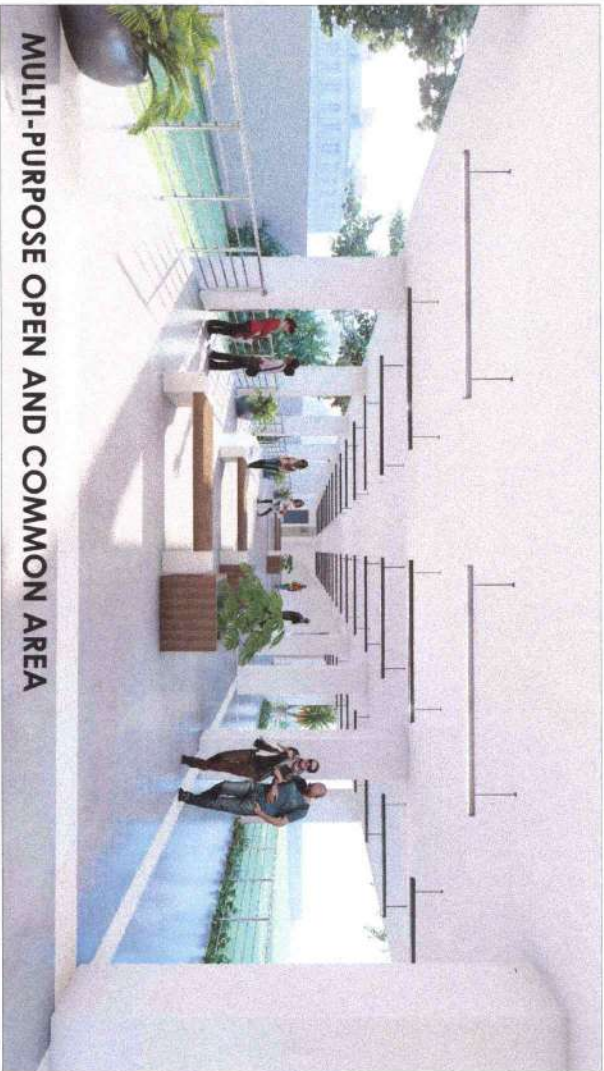
10/07



EXTERIOR FACADE



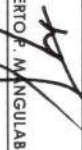
LECTURE ROOM



MULTI-PURPOSE OPEN AND COMMON AREA



ACCESS RAMP

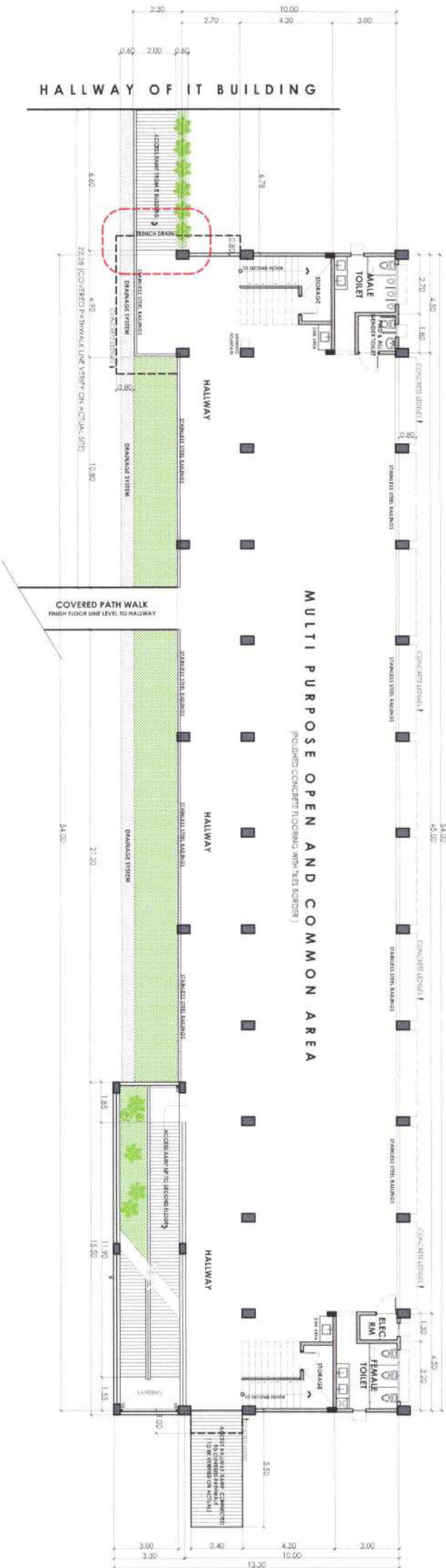
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| <br>Republic of the Philippines<br>CARLOS HILADO MEMORIAL<br>STATE UNIVERSITY<br>Negros Occidental | PROJECT TITLE:                                                                                      | PREPARED BY:                                                                                                 | CHECKED BY:                                                                                                  | RECOMMENDING APPROVAL:                                                                                      | APPROVED BY:                                                                                                           | SHEET NO:                                                                                                          | PAGE NO: |
|                                                                                                                                                                                    | CONSTRUCTION OF ACADEMIC BUILDING<br>(BUSINESS EDUCATION COMPLEX PHASE I -<br>FORTUNE TOWNE CAMPUS) | AR. ARIF M. ARE. SYULAT<br> | ENGR. DESIRE O. CHAVEZ<br> | ENGR. JIN-JUN MARQUEZ<br> | ENGR. RUSSELA DE LA TORRE, Ph.D.<br> | NORBERTO M. NGULABNAN, Ph.D.<br> | C<br>S   |
| PROJECT MANAGEMENT UNIT                                                                                                                                                            | PROJECT LOCATION: FORTUNE TOWNE CAMPUS                                                              | PROJECT DEVELOPMENT OFFICER II                                                                               | PROJECT DEVELOPMENT OFFICER III                                                                              | DIRECTOR, PROJECT MANAGEMENT UNIT                                                                           | CHC- VICE PRESIDENT FOR ADMINISTRATION & FINANCE                                                                       | SUC PRESIDENT III                                                                                                  |          |





CONSTRUCTION OF ACADEMIC BUILDING (BUSINESS EDUCATION COMPLEX PHASE I-FORTUNE TOWNE CAMPUS)

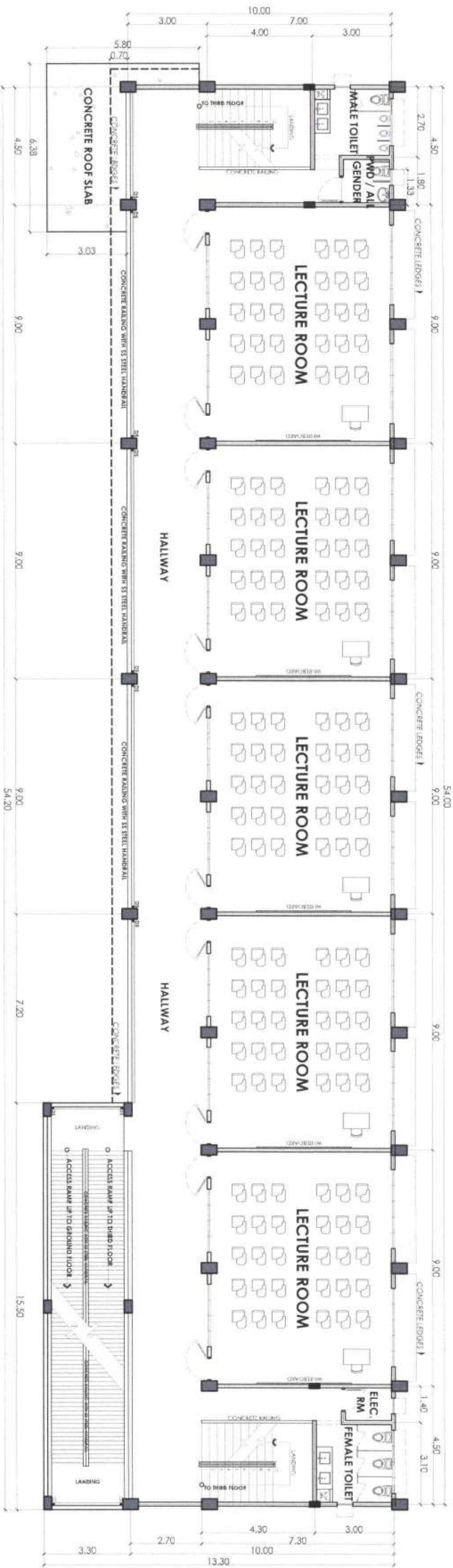
TOTAL FLOOR AREA : 1,760.00 sq.m



GROUND FLOOR PLAN

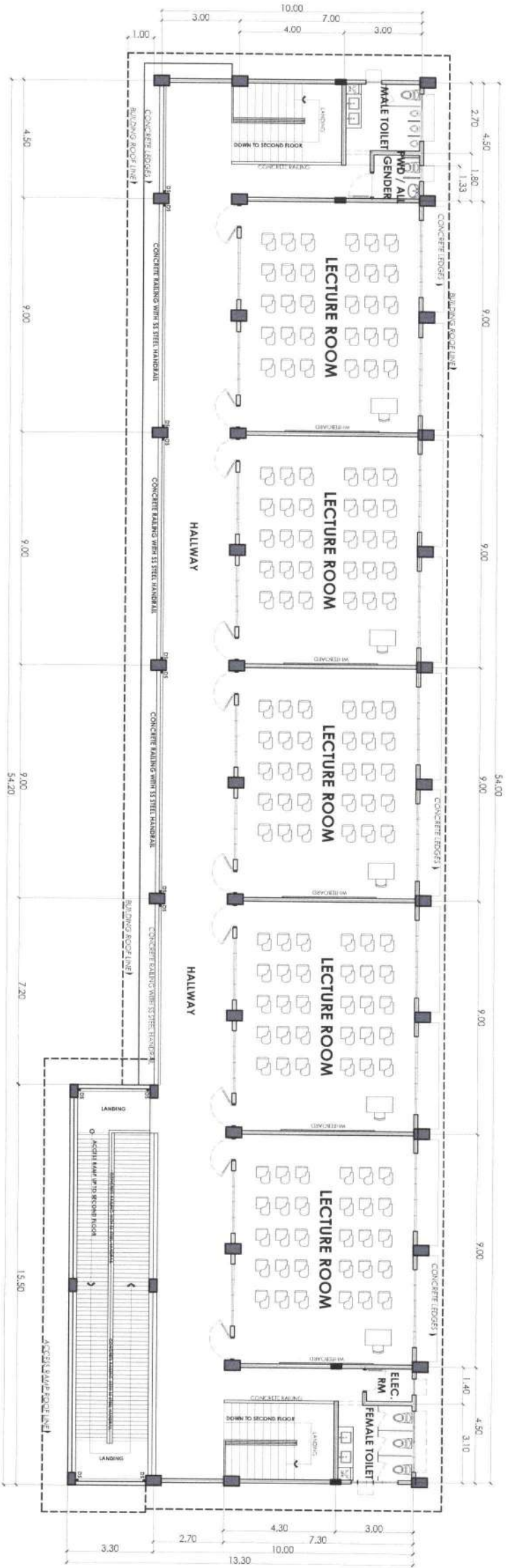
SCALE: 1:250m

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|  <div>Republic of the Philippines<br/>CARLOS HILADO MEMORIAL<br/>STATE UNIVERSITY<br/>Negros Occidental</div> | PROJECT TITLE:                                                                                      |  | PREPARED BY:                   |  | CHECKED BY:                     |  | RECOMMENDING APPROVAL:            |  | APPROVED BY:                                    |  | SHEET NO:                     | PAGE NO: |   |
|                                                                                                                                                                                               | CONSTRUCTION OF ACADEMIC BUILDING<br>(BUSINESS EDUCATION COMPLEX PHASE I -<br>FORTUNE TOWNE CAMPUS) |  | AR. RUEL MARCOS INSULAT        |  | ENGR. DESIRE O. CHAVEZ          |  | ENGR. JUN-JUN MARGARITA           |  | ENGR. RUSSEL M. DELA TORRE, Ph.D                |  | NORBERTO P. MANGULABNAN, Ph.D | A        | 3 |
| PROJECT MANAGEMENT UNIT                                                                                                                                                                       | PROJECT LOCATION: FORTUNE TOWNE CAMPUS                                                              |  | PROJECT DEVELOPMENT OFFICER II |  | PROJECT DEVELOPMENT OFFICER III |  | DIRECTOR, PROJECT MANAGEMENT UNIT |  | OIC-VICE PRESIDENT FOR ADMINISTRATION & FINANCE |  | SUC PRESIDENT II              |          |   |



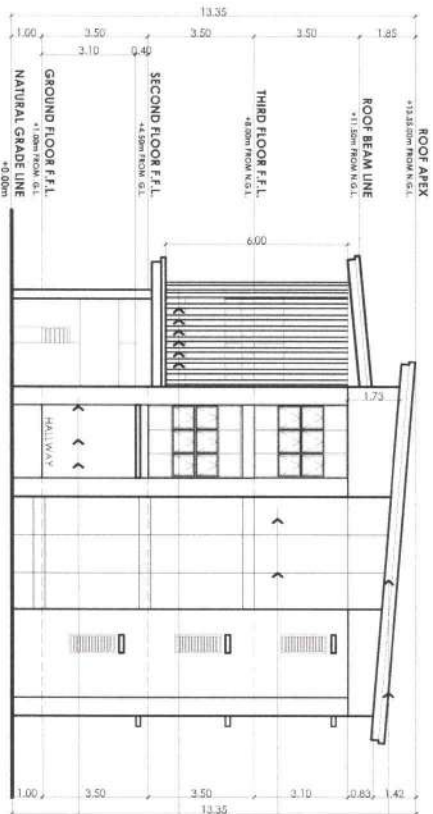
SECOND FLOOR PLAN  
SCALE: 1:200m

|                                                                                                                                                                                |                                                                                                                       |  |                                                                                                                        |                                                                                                                            |                                                                                                               |                                                                                                                          |                                                                                                                       |                |                   |
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| <br>Rep. of the Philippines<br>CARLOS HILADO MEMORIAL<br>STATE UNIVERSITY<br>Negros Occidental | PROJECT TITLE:<br>CONSTRUCTION OF ACADEMIC BUILDING<br>(BUSINESS EDUCATION COMPLEX PHASE I -<br>FORTUNE TOWNE CAMPUS) |  | PREPARED BY:<br><br>AR. RYAN M. SOLAT | CHECKED BY:<br><br>ENGR. DESIRE O. CHAVEZ | <br>ENGR. JUN-JUE MARICRUZ | <br>ENGR. RUSSEL M. DELA TORRE, Ph.D. | <br>NORBERTO P. MANGULABNAN, Ph.D. | SHEET NO:<br>A | PAGE NO:<br>4     |
|                                                                                                                                                                                | PROJECT LOCATION: FORTUNE TOWNE CAMPUS                                                                                |  | PROJECT DEVELOPMENT OFFICER II                                                                                         | PROJECT DEVELOPMENT OFFICER III                                                                                            | DIRECTOR, PROJECT MANAGEMENT UNIT                                                                             |                                                                                                                          | OIC-VICE PRESIDENT FOR ADMINISTRATION & FINANCE                                                                       |                | SUC PRESIDENT III |



THIRD FLOOR PLAN  
SCALE: 1:200m

|                                                                                                                                                                                                         |                                                                                                     |                                |                                 |                                   |                               |            |           |
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| <div><div>Republic of the Philippines<br/>CARLOS HILADO MEMORIAL<br/>STATE UNIVERSITY<br/>Negros Occidental</div></div> | PROJECT TITLE:                                                                                      | PREPARED BY:                   | CHECKED BY:                     | RECOMMENDING APPROVAL:            | APPROVED BY:                  | SHEET NO.: | PAGE NO.: |
|                                                                                                                                                                                                         | CONSTRUCTION OF ACADEMIC BUILDING<br>(BUSINESS EDUCATION COMPLEX PHASE I -<br>FORTUNE TOWNE CAMPUS) | AR<br>JEREL MARIE S. SULAT     | ENGR. DESIRE O. CHAVEZ          | ENGR. RUSSEL M. DE LA TORRE, Ph.D | NORBERTO P. MAGSALBANAN, Ph.D | A          | 5         |
|                                                                                                                                                                                                         | PROJECT LOCATION: FORTUNE TOWNE CAMPUS                                                              | PROJECT DEVELOPMENT OFFICER II | PROJECT DEVELOPMENT OFFICER III | DIRECTOR, PROJECT MANAGEMENT UNIT | SUC PRESIDENT II              |            |           |
|                                                                                                                                                                                                         |                                                                                                     |                                |                                 |                                   |                               |            |           |
|                                                                                                                                                                                                         | PROJECT MANAGEMENT UNIT                                                                             |                                |                                 |                                   |                               |            |           |



FREE PAINTED 90° TYPE LONG SPAN ROOFING: (GREEN)

PLAN: ROUGH GEMENT PLASTER FINISH PAINTED IN 85% 14 FOREST GREEN OR APPROVED EQUIVALENT

2" X 6" BLACK ALUMINUM TUBULAR VERTICAL LOUVER

6mm THICK DARK GRAY GLASS AWMING WINDOW ON BLACK ALUMINUM FRAMING



PLAN: ROUGH GEMENT PLASTER FINISH PAINTED IN 85% 14 FOREST GREEN OR APPROVED EQUIVALENT

2" X 6" BLACK ALUMINUM TUBULAR VERTICAL LOUVER

6mm THICK DARK GRAY GLASS AWMING WINDOW ON BLACK ALUMINUM FRAMING

## RIGHT SIDE ELEVATION

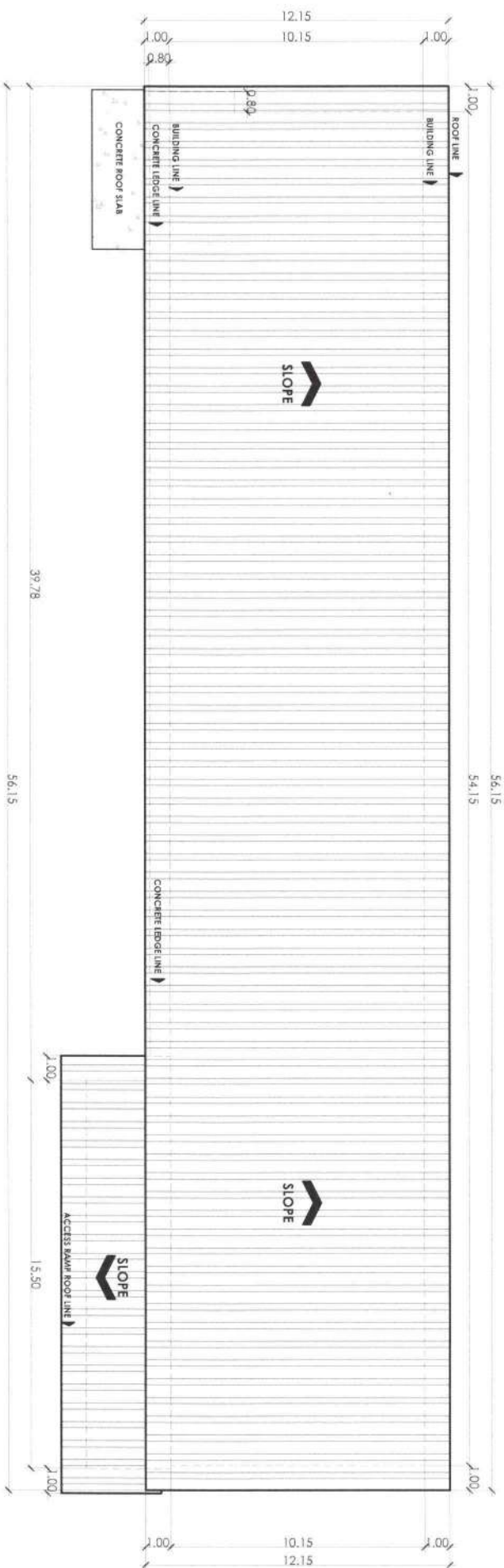
SCALE:

1:250m

## LEFT SIDE ELEVATION

SCALE:

1:250m



## ROOF PLAN

SCALE:

1:250m



Republic of the Philippines  
CARLOS HILADO MEMORIAL  
STATE UNIVERSITY  
Negros Occidental

PROJECT MANAGEMENT UNIT

PROJECT TITLE:

CONSTRUCTION OF ACADEMIC BUILDING  
(BUSINESS EDUCATION COMPLEX PHASE I -  
FORTUNE TOWNE CAMPUS)

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CHECKED BY:

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SUC PRESIDENT III

SHEET NO:

A

PAGE NO:

7





## Project Management Unit

**Project Title: CONSTRUCTION OF ACADEMIC BUILDING (BUSINESS EDUCATION COMPLEX PHASE I-FORTUNE TOWNE CAMPUS)**

**Location: CHMSU- Fortune Towne Campus**

### DESIGN PARAMETERS

#### ARCHITECTURAL SCOPE OF WORKS

##### 1. Design and Plans

- 1.1 Ecological Architecture Concept
- 1.2 Introduction of Green Concepts as per provisions of the Philippine Green Building Code.
- 1.3 The academic building should comply with the CHED, BP344, OBO, BFP, and NBCP requirements.
- 1.4 Academic Building space allocations shall conform to the End User's requirements.
- 1.5 All finishes and materials shall follow the SCHEDULE OF FINISHES, otherwise of similar quality, and for end-users' approval.

##### 2. Architectural scope of work shall include the following:

###### 2.1 Minimum Dimension Requirements

- 2.1.1. The size of the classroom must be 7.00 meters in width x 9.00 meters in length measured from the centers of the walls.
- 2.1.2. The corridors must not be less than 3 meters in width and should be provided with concrete railings with stainless steel hand rail at a total height of not less than 1.20 meters.
- 2.1.3. Concrete stairs must have a clear width of not less than 2 meters
- 2.1.4. Number and width the of stairways per school building shall comply with the requirements stipulated in the National Building Code of the Philippines (NBCP).

###### 2.2 Doors and Windows

- 2.2.1. The total area of window openings must be at least 10.00 square meters to provide natural ventilation and illumination.
- 2.2.2. The window sill must be higher than 0.90 meter from the finished floor line (FFL).
- 2.2.3. The window panels, when opened, must not be an obstruction along the corridor.
- 2.2.4. Jambs shall be provided for all window openings.
- 2.2.5. The thickness of glass shall conform to the standard thickness as specified in the Technical Specifications Part 2.
- 2.2.6. The window frames shall be made of aluminum.
- 2.2.7. Awning Windows for second and third floor hallways.
- 2.2.8. There shall be two (2) doors for every classroom.
- 2.2.9. The door swing-out angle should be 180 degrees.



## Project Management Unit

- 2.2.10. The doors must be at least 0.90 meter in clear width and 2.10 meters in clear height.
- 2.2.11. The size of the door jamb shall not be less than 6 inches for the panel doors.
- 2.2.12. Include heavy duty foot bolt for all doors
- 2.2.13. Lever-type door knob lockset will be used for all doors.
- 2.2.14. Steel Door (Fire Rated) with louvers shall be used for Electrical Room.
- 2.2.15. Panel Door with Side Glass Panel shall be used for every classroom.
- 2.2.16. Refer to the Finishing Schedule for the doors and windows finishes specified for other areas.

**2.3 Soil Poisoning/ Termite Control** shall be done in a reticulation system with damp proofing.

### 2.4 Floor Finishes

- 2.4.1 A continuous access ramp smooth Matte Cement with grooves every 10cm from the ground floor to the third floor must be provided with a maximum slope of 1: 20 in compliance with the Accessibility Law (B.P. No. 344).
- 2.4.2 Refer to the Finishing Schedule for the floor finishes specified for other areas.

### 2.5 Wall Finishes

- 2.5.1 Classroom partitions must be from floor to bottom of beam Exterior Walls
- 2.5.2 Walls must be free from dents, cracks and cannot be easily deformed when hit by an object.
- 2.5.3 The insulation within the walls should be fire-rated for at least 2-hours.
- 2.5.4 External walls and partitions must be water-resistant and must not absorb more than 5% of its volume.
- 2.5.5 Wall paint/color scheme for internal and external finishes *(See Conceptual Plan and Finishing Schedule)*.
- 2.5.6 Paint Materials must be certified lead-safe paints/ coatings.
- 2.5.7 Refer to the Finishing Schedule for the wall finishes specified for other areas.

### 2.6 Ceiling

- 2.6.1 Painted concrete slab finish for the ground and second floors.
- 2.6.2 Fiber cement board ceiling for third floor with metal joist and support for all classrooms
- 2.6.3 Provide Ceiling Ventilation.
- 2.6.4 The clear height of rooms from FFL to the finished ceiling line (FCL) must be at least 2.70 meters.
- 2.6.5 Provide provision for ceiling catwalk.
- 2.6.6 Exposed Soffit ceiling for Male and Female Toilet, painted matte black (pipes, raceways, etc.)



## Project Management Unit

- 2.6.7 Refer to the Finishing Schedule for the ceiling finishes specified for other areas.

### 2.7 Masonry works

- 2.7.1 All masonry works shall conform to the provisions of the Philippine Building Code of the Philippines. The minimum compressive strengths are:

$fc' = 350$  psi (2.41 MPa) for non-loadbearing CHB

$fc' = 750$  psi (5.17 MPa) for loadbearing CHB.

- 2.7.2 Mortar, plastering and reinforcements.

### 2.8 Fixtures and Hardware

- 2.8.1 Standard dimensions for installation of all the fixed fixtures, hardware, and other utilities shall be observed but not limited to lavatories, faucets, water closet, switches, outlets and railings.
- 2.8.2 Provide water closets, lavatories, toilet paper holder, soap holder, towel holder, bidet, coat hooks, faucets, stainless-steel floor drains and urinals.

### 2.9 Painting Works

- 2.9.1 To include surface preparations and painting of exposed pipes and protrusions/mouldings; one (1) priming coat/sealer and two (2) finishing coat for:
- 2.9.1.1 Concrete Surfaces
  - 2.9.1.2 Metal Surfaces
  - 2.9.1.3 Wood Surfaces
- 2.9.2 Painting application must be referred to the product technical data sheet.
- 2.9.3 Apply putty as needed.
- 2.9.4 Cementitious waterproofing shall be applied to every toilet flooring before installation of tiling works.

### 2.10 Roofing and Insulation

- 2.10.1 The roofing material must be adequately protected from rust/oxidation, salt air, acid rain, or other sources and forms of corrosion.
- 2.10.2 Roofing shall be of 0.60 mm base metal thickness (BMT), long span, galvanized steel with Z40 coating, pre-painted, and securely fastened to the roof frames (*Baguio Green Rib Type*).
- 2.10.3 Bended accessories.
- 2.10.4 The size of purlin must be based on the structural design of the roof frames but in no case smaller than 1.5 mm thickness x 2" x 6". C-purlins must be spaced not more than 50 cm on center.
- 2.10.5 Roofing insulation must be provided to repel the heat from entering the classroom. It is critical that the roofing insulation, placed between the roof and C-purlins, must have a minimum insulation value of R8 and must be double sided insulation. This is to provide thermal comfort inside the classroom.



## Project Management Unit

### 2.11 Plant Boxes and Plants

- 2.11.1 Proposed plants for the ground floor plant boxes will be subjected to end user's approval.

### 2.12 Railings

- 2.12.1. Handrails with steel railings must be provided.
- 2.12.2. Schedule 20, 304 stainless steel railings and handrails for staircase, PWD ramp, PWD Toilet, ground floor and hallways.
- 2.12.3. Concrete Baluster Railings with stainless steel handrail for continuous access ramp and hallways.

### 2.13 Façade of the Building and Floor Layout

- 2.13.1 The façade and floor plans of the building will not be changed and will be based on the drawings provided. Any alterations from the given facade and floor plans will need an approval from the PMU Office.

### 2.14 Waterproofing

- 2.14.1 Damp proofing shall be provided for slab on grade, 8 mils, clear or white polyethylene sheet.
- 2.14.2 Waterproofing for toilets, ledges, canopies, planters and walls.

### 2.15 Specialty Works

- 2.15.1 Aluminum Vertical Louvers Access Ramp Façade
- 2.15.2 Mirror for comfort rooms
- 2.15.3 Illuminated Directional Signages and emergency exit signs
- 2.15.4 Solid Compact Phenolic Board Toilet Partition with complete Hardware and Accessories.
- 2.15.5 Use Classroom Tempered Glass boards

### 3. The following were the **minimum required plans for architectural works:**

- 3.1 Vicinity Map
- 3.2 Site Development Plans
- 3.3 Perspective Plans
- 3.4 Floor Plans
- 3.5 Roof Plan
- 3.6 Right and Left Side Elevation
- 3.7 Front and Rear Elevation
- 3.8 Section Details
- 3.9 Schedule Of Doors and Windows
- 3.10 Staircase and Handrail Details
- 3.11 Comfort Room Details
- 3.12 Reflected Ceiling Plans
- 3.13 Floor And Wall Finish Plans
- 3.14 Landscaping Plan
- 3.15 Blow-up Details



## Project Management Unit

- 3.16 Wall Elevations
- 3.17 Roof Eaves Details
- 3.18 PWD Ramp Details
- 3.19 Continuous Access Ramp and Handrail Details

### CIVIL/ STRUCTURAL SCOPE OF WORKS

#### 1. Structural Design and Analysis in Accordance with the Latest Edition of National Structural Code of the Philippines (NSCP)

- 1.1 Provide Structural Analysis and Design
- 1.2 The design wind loads are as per provisions of the NSCP Latest Edition.
- 1.3 The design earthquake loads are as per provisions of the NSCP for Earthquake Zone 4.

#### 2. Excavation, Backfilling, and Compaction Works

- 2.1 Mechanized Excavation, Backfilling, and Compaction Works, Including Retaining Wall Construction
- 2.2 Include Demolition of Existing CH Building/Site Clearing/Temporary Enclosure

#### 3. Concrete Works

- 3.1 Ready Mixed Concrete (RMC) will be used.
- 3.2 Concrete mix design shall conform to ACI 211.1 and ACI 301. The minimum 28-day cylinder compressive strength shall be:
  - $f_c' = 27.58 \text{ MPa (4000 psi)}$  for Foundation, Columns, Stairs, Beams and Slab
  - $f_c' = 24.13 \text{ MPa (3500 psi)}$  for Lean Concrete and Slab on Grade
- 3.3 Admixtures to be used in concrete shall be subject to prior approval of the Structural Engineer.

#### 4. Reinforcements

- 4.1. The minimum yield strength of reinforcement to be used shall be as follows:
  - $f_y = 60,000 \text{ psi (414 MPa)}$  for main bars 16mm diameter and up.
  - $f_y = 40,000 \text{ psi (276 MPa)}$  for reinforcements 12mm dia. and below.

#### 5. Formworks

- 5.1 Supply, installation, and maintenance of formwork systems for all cast-in-place concrete works, including beams, slabs, columns, walls, and footings. Use phenolic boards for all contact surfaces.
- 5.2 Use phenolic-coated plywood (marine-grade) for all concrete contact surfaces to ensure smooth finish and dimensional accuracy.
- 5.3 Provide galvanized iron (GI) pipe scaffolding and shoring system, complete with adjustable jacks and bracing, to support formworks in accordance with imposed loads and safety requirements.



## Project Management Unit

5.4 Dismantling and stripping of formworks only after concrete has attained the required minimum strength, in accordance with approved curing period and relevant structural specifications.

### 6. Testing

6.1 The following test shall be conducted but not limited to as part of QA/QC

- 6.1.1 Concrete Compressive Strength Test
- 6.1.2 Masonry Compressive Strength Test before Delivery
- 6.1.3 Rebar Tensile Strength Test before Delivery
- 6.1.4 Rebar Bending Strength Test before Delivery
- 6.1.5 Slump Test
- 6.1.6 Field Density Test Shall Be Conducted Prior To Concreting of S.O.G.

### 7. The following were the minimum required plans for Structural Works:

- a. General Notes
- b. Foundation/ Footings
- c. Footing Tie-Beams
- d. Wall Footing
- e. Stiffener Columns
- f. Concrete Columns
- g. Slab On Grade
- h. Retaining Wall
- i. Floor Framing
- j. Concrete Beams, Slab, Canopies and Ledges Details
- k. Roof And Roof Framing Details
- l. Concrete Septic Vault
- m. Concrete Stairs and Stair Section Details
- n. Fire Exit Stairs
- o. Continuous Access Ramp Structural Details
- p. Fire Tank Details
- q. Connecting Bridge Design and Provision of Corbel

## PLUMBING/ SANITARY/ PIPELINE SCOPE OF WORKS

### 1. Design and Plans

1.1 Toilets and sanitary facilities shall be in accordance with the Plumbing Code and the Sanitary Code of the Philippines.

### 2. Sanitary

2.1 Slope should be at least 1.5% for all horizontal sanitary PVC pipe, with vent stack and clean-outs.

2.2 Use wye (long sweep or short sweep depending on the requirement) fitting to connect vertical and horizontal pipes. Usage of 90 degrees fitting to connect vertical and horizontal pipes is prohibited.

2.3 Use series 1000 PVC for sanitary pipes.



## Project Management Unit

2.4 The septic tank is designed with a sufficient volume capacity to serve the entire Building. All concrete septic tanks, if used as the sanitation solution, shall be protected from corrosion by coating with an approved bituminous coat or by other acceptable means.

2.5 Provide sand beddings for underground sanitary PVC pipes.

2.6 Provide cleanout for all sanitary pipes especially if there is a shift of direction.

2.7 Provide P-traps to prevent backflow of foul odor.

### 3. Waterlines

3.1 Use PPR pipes and fittings for waterlines.

3.2 Ensure strong water pressure on ground floor and second floor toilets, shower, and laundry area.

3.3 Provide and install two (2) 1,500-L polyethylene day tanks, two (2) 200-L bladder tanks, two (2) 2-HP pressure pumps, and the associated level control system at the ground floor (See plan for reference). Include the construction of a supporting platform and a protective enclosure with roofing for the complete installation.

3.4 Connect to the nearest water supply to provide water to the building.

### 4. Testing

5.1 Pressure Test for waterlines

5.2 Water Test for sanitary pipe lines to ensure water tightness.

5.3 Leak Test & Flow Test

5.4 Floor Drain Testing to be conducted.

5.5 Testing and commissioning prior to completion of the project.

### 5. The following are the minimum required plans for Plumbing & Sanitary Works:

- a. General Notes
- b. Details & Legends
- c. Water Supply Lay-out & Isometric Drawing
- d. Sanitary/Sewer Lay-out & Isometric Drawing
- e. Drainage Lay-out/Manhole, and Hallway
- f. Septic Vault Detail

## ELECTRICAL SCOPE OF WORKS

### 1. Electrical Design and Analysis

1.1 The electrical design must in be accordance with the latest edition of the Philippine Electrical Code (PEC). It must be provided with the basic electrical power and lighting layout, general notes, riser diagram, single line diagram, legends and symbols, load schedule and auxiliary layouts.

1.2 Incoming power supply will be 3 phase, 3 wire with grounding, 230 volts, as per actual requirements. Supply with 3-phase power transformer with CT metering.

1.3 Electrical Design Analysis (Voltage drop and short circuit calculations) shall be submitted together with the electrical panel's design/plans.

1.4 Electrical scope of works and design shall include the following:



## Project Management Unit

- 1.4.1 Lighting and Convenience Outlet Systems.
- 1.4.2 Power supply for Ventilation, Exhaust Equipment, and ceiling/ wall fans.
- 1.4.3 Lightning Protection and Grounding System
- 1.4.4 Main distribution panel with circuit breakers for every circuit line. Provide Individual circuit breakers for every major equipment. All panels are to be provided with wire gutters. Panels are rated NEMA 2 enclosure.
- 1.4.5 Provide Emergency Lighting System
- 1.4.6 Provide Exit Lighting

### 2. Lightings

- 2.1 Provide adequate illumination in rooms (minimum of nine (9) double troffer lights per lecture room), hallways and other working areas. Lighting Lux shall be as per requirements of Illumination Engineering Standard.
- 2.2 Emergency lights and lighted exit lights with battery.
- 2.3 Provide perimeter lights for security purposes.

### 3. Power Supply and Outlets

- 3.1 Adequate numbers of convenience outlets as per electrical code shall be provided, enough to cater all the equipment (TV, projectors, emergency lights, wall fans, etc.) to be provided by the End User.
- 3.2 Power supply for equipment shall be based on the actual power rating of equipment to be provided by the End User.

### 4. Grounding and Lightning Protection System

- 4.1 Grounding and lightning protection systems shall be provided and interconnected with the provision of test wells.

### 5. Electrical Plans

- 5.1 Electrical General Notes, Legends, and Symbols
- 5.2 Single Line Diagram
- 5.3 Schedule of Loads
- 5.4 Complete the Diagram and Layout of the following systems
  - 5.4.1 Lightings
  - 5.4.2 Power
  - 5.4.3 Grounding and Lightning Protection System
  - 5.4.4 Data / Telephone (includes networking)
  - 5.4.5 Fire Detection and Alarm System
  - 5.4.6 CCTV Systems
  - 5.4.7 Public Address/Paging System
  - 5.4.8 Detailed Drawing of Device Mounting and Installation

### 6. Testing

- 6.1 Testing and commissioning prior to completion of the project.



## Project Management Unit

### MECHANICAL AND FIRE PROTECTION SCOPE OF WORKS

#### 1. Design and Analysis

- 1.1 All Mechanical and Fire protection designs shall conform to the Philippine Mechanical Code of the Philippines and Fire Code of the Philippines and its latest Implementing Rules and Regulations (IRR).
- 1.2 Computation for the exhaust capacity.
- 1.3 Mechanical and fire protection design shall include the following:
  - 1.3.1 Ceiling fans, Exhaust fans and Ventilation Systems

#### 2. Exhaust and Ventilation

- 2.1 Natural ventilation shall be primarily supplied by the windows and vents.
- 2.2 Additional ventilation inside each classroom shall be supplied by wall fans (minimum of 4 per lecture rooms).
- 2.3 Electrical room and storage rooms to be provided with exhaust vents.

#### 3. Fire Protection

- 3.1 The requirements shall include a fire alarm system, hose boxes/reels, extinguishers and other firefighting equipment.
- 3.2 Provide portable fire extinguishers to desired areas (lecture rooms, hallways, etc.).

#### 4. Testing

- 4.1 Testing and commissioning prior to completion of the project.

### FIRE DETECTION AND ALARM SYSTEM (FDAS)

- 1. FDAS – An adequate number of smoke detectors shall be provided as per NFPA standards requirements.
- 2. Conventional Type Fire Alarm Control Panel
- 3. Fire alarm control panel with battery backup.
- 4. Provide and install fire extinguishers in every room and along hallways at 15-meter intervals.
- 5. Provide emergency evacuation plans/layout in every rooms.
- 6. Testing
  - 6.1 Testing and commissioning prior to completion of the project.

### ELECTRONICS AND NETWORK COMMUNICATION

- 1. All Electronics and Communication works shall conform to the Philippines Electronics Code.
- 2. Provide complete electronics plan.
- 3. CCTVs to cover common areas and external areas (all corridors, stairs, etc.).
- 4. CCTV system must be compatible with the existing CHMSU system.



# Carlos Hilado Memorial State University

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## Project Management Unit

5. Provide and install a CCTV monitoring system with a monitor capable of displaying feeds from all installed CCTV cameras, including a suitable mounting frame, at the Executive Director's (ED) Office.
6. Provide Public Address/Paging system (minimum of 2 speakers per floor).
7. Provide LAN system
8. Testing
  - 8.1 Testing and commissioning prior to completion of the project.



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## Project Management Unit

### SPACE REQUIREMENT (See conceptual layout and design)

#### Ground floor

1. Multipurpose Open and Common Area
2. Hallways
3. 1-Male and 1-Female Comfort Room
4. 1-PWD and All-Gender Comfort Room
5. 2-Storage Rooms
6. 1-Electrical Room
7. Stairs and Ramp Access
8. Continuous Access Ramp
9. Plant Boxes

#### Second Floor

1. 5-Lecture Rooms
2. 1-Male and 1-Female Comfort Room
3. 1-PWD and All-Gender Comfort Room
4. Hallways
5. 1-Electrical Room
6. Stairs and Ramp Access

#### Third Floor

1. 5-Lecture Rooms
2. 1-Male and 1-Female Comfort Room
3. 1-PWD and All-Gender Comfort Room
4. Hallways
5. 1-Electrical Room
6. Stairs and Ramp Access

### IMPORTANT NOTE:

*All construction plans and drawings shall be designed (signed and sealed) by a professional in accordance with its specialized scope of work.*

*The contractor's Professional designer's scope of work will end after the acquisition of Occupancy permits. However, this does not relieve the designer of his responsibilities as a designer during the defect's liability period and the warranty period.*

Prepared By:

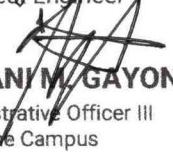
  
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PMU-Project Development Officer II

Approved:

  
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PMU-Director



**Project: Construction of Academic Building (Business Education Complex Phase 1 - Fortune Towne Campus)**

**Location:** CHMSU Fortune Towne Campus

**Calendar Days: 330**

| ITEM | DESCRIPTION                                                                                  | MONTHS      |         |         |         |         |         |         |         |         |          |          |
|------|----------------------------------------------------------------------------------------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|
|      |                                                                                              | Month 1     | Month 2 | Month 3 | Month 4 | Month 5 | Month 6 | Month 7 | Month 8 | Month 9 | Month 10 | Month 11 |
| 1.0  | GENERAL REQUIREMENTS                                                                         |             |         |         |         |         |         |         |         |         |          |          |
|      | Mobilization and Demobilization                                                              | <div></div> |         |         |         |         |         |         |         |         |          |          |
|      | Demolition Works                                                                             | <div></div> |         |         |         |         |         |         |         |         |          |          |
|      | Safety Occupational Hazards                                                                  | <div></div> |         |         |         |         |         |         |         |         |          |          |
|      | Design, Plans, Building Permits and Occupancy Permits, and other permits needed              | <div></div> |         |         |         |         |         |         |         |         |          |          |
|      | Temporary Facilities                                                                         | <div></div> |         |         |         |         |         |         |         |         |          |          |
|      | Water Proofing Works (Exterior walls, Concrete ledges>Toilets floor slab/wall, Septic Vault) | <div></div> |         |         |         |         |         |         |         |         |          |          |
| 2.0  | STRUCTURAL WORKS                                                                             |             |         |         |         |         |         |         |         |         |          |          |
| 2.1  | Earthworks                                                                                   |             |         |         |         |         |         |         |         |         |          |          |
|      | Site Clearing and Layouts                                                                    | <div></div> |         |         |         |         |         |         |         |         |          |          |
|      | Earthworks/Backfill/Excavation/Compaction                                                    | <div></div> |         |         |         |         |         |         |         |         |          |          |
|      | Retaining Walls                                                                              | <div></div> |         |         |         |         |         |         |         |         |          |          |
|      | Heavy Equipments                                                                             | <div></div> |         |         |         |         |         |         |         |         |          |          |
|      | Soil Poisoning (Reticalulation process) and Damp Proofing                                    | <div></div> |         |         |         |         |         |         |         |         |          |          |
| 2.1  | Formworks & Scaffolding                                                                      |             |         |         |         |         |         |         |         |         |          |          |
|      | Footing and Columns                                                                          | <div></div> |         |         |         |         |         |         |         |         |          |          |
|      | Footing Tie Beams                                                                            | <div></div> |         |         |         |         |         |         |         |         |          |          |
|      | Ground Floor Slab                                                                            | <div></div> |         |         |         |         |         |         |         |         |          |          |
|      | Second Floor Beams                                                                           | <div></div> |         |         |         |         |         |         |         |         |          |          |
|      | Second Floor Slabs                                                                           | <div></div> |         |         |         |         |         |         |         |         |          |          |
|      | Third Floor Beams                                                                            | <div></div> |         |         |         |         |         |         |         |         |          |          |
|      | Third Floor Slabs                                                                            | <div></div> |         |         |         |         |         |         |         |         |          |          |
|      | Roof Beams                                                                                   | <div></div> |         |         |         |         |         |         |         |         |          |          |
|      | Concrete Ledges                                                                              | <div></div> |         |         |         |         |         |         |         |         |          |          |
| 2.2  | Rebar works                                                                                  |             |         |         |         |         |         |         |         |         |          |          |
|      | Footing and Columns                                                                          | <div></div> |         |         |         |         |         |         |         |         |          |          |
|      | Footing Tie Beams                                                                            | <div></div> |         |         |         |         |         |         |         |         |          |          |
|      | Ground Floor Slab                                                                            | <div></div> |         |         |         |         |         |         |         |         |          |          |
|      | Second Floor Beams                                                                           | <div></div> |         |         |         |         |         |         |         |         |          |          |



| ITEM  | DESCRIPTION                                                                     | MONTHS  |         |         |         |         |         |         |         |         |          |          |
|-------|---------------------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|
|       |                                                                                 | Month 1 | Month 2 | Month 3 | Month 4 | Month 5 | Month 6 | Month 7 | Month 8 | Month 9 | Month 10 | Month 11 |
| 7.0   | ELECTRICAL WORKS                                                                |         |         |         |         |         |         |         |         |         |          |          |
| 7.1   | Panel Boards & Service Entrance, Power Supply Line w/ Steel Posts               |         |         |         |         |         |         |         |         |         |          |          |
| 7.2   | Electrical wires, cables, Grounding System & Lightning Protection System        |         |         |         |         |         |         |         |         |         |          |          |
| 7.3   | Lighting Fixtures, Lighting outlets, switches, convenience outlet & accessories |         |         |         |         |         |         |         |         |         |          |          |
| 7.4   | Emergency Lights and Exhaust Fans & Wall Fans, Emergency Signages               |         |         |         |         |         |         |         |         |         |          |          |
| 7.5   | Testing & Commissioning                                                         |         |         |         |         |         |         |         |         |         |          |          |
| 8.0   | MECHANICAL WORKS                                                                |         |         |         |         |         |         |         |         |         |          |          |
| 8.1   | Fire Detection and Alarm System                                                 |         |         |         |         |         |         |         |         |         |          |          |
| 8.2   | Supply and Installation of Fire Extinguisher                                    |         |         |         |         |         |         |         |         |         |          |          |
| 8.3   | Testing & Commissioning                                                         |         |         |         |         |         |         |         |         |         |          |          |
| 9.0   | ELECTRONICS AND NETWORK COMMUNICATIONS                                          |         |         |         |         |         |         |         |         |         |          |          |
| 9.1   | CCTV Camera, Telephone outlet, Data Outlet & Wirlings                           |         |         |         |         |         |         |         |         |         |          |          |
| 9.2   | Television and Accessories                                                      |         |         |         |         |         |         |         |         |         |          |          |
| 9.3   | PABX System                                                                     |         |         |         |         |         |         |         |         |         |          |          |
| 9.4   | Testing & Commissioning                                                         |         |         |         |         |         |         |         |         |         |          |          |
| 10.0  | LANDSCAPING, PLANT BOX AND PAVERS                                               |         |         |         |         |         |         |         |         |         |          |          |
| 11.0  | MISCELLANEOUS WORKS                                                             |         |         |         |         |         |         |         |         |         |          |          |
|       | Total Direct Cost                                                               |         |         |         |         |         |         |         |         |         |          |          |
|       | Consumables                                                                     |         |         |         |         |         |         |         |         |         |          |          |
|       | Supervision and Administration                                                  |         |         |         |         |         |         |         |         |         |          |          |
|       | Total Indirect Cost                                                             |         |         |         |         |         |         |         |         |         |          |          |
|       | TOTAL COST                                                                      |         |         |         |         |         |         |         |         |         |          |          |
|       | Val (12% of Indirect Cost)                                                      |         |         |         |         |         |         |         |         |         |          |          |
| Total |                                                                                 |         |         |         |         |         |         |         |         |         |          |          |
|       | PROGRESS PER MONTH                                                              |         |         |         |         |         |         |         |         |         |          |          |
|       | % CUMMULATIVE                                                                   |         |         |         |         |         |         |         |         |         |          |          |

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# **TECHNICAL SPECIFICATIONS I**

Project Title:

**CONSTRUCTION OF ACADEMIC BUILDING (BUSINESS  
EDUCATION COMPLEX PHASE I-FORTUNE TOWNE CAMPUS)**

Location:

**CHMSU – FORTUNE TOWNE CAMPUS, Negros Occidental**

**PROJECT TITLE: CONSTRUCTION OF ACADEMIC BUILDING  
(BUSINESS EDUCATION COMPLEX PHASE I-FORTUNE  
TOWNE CAMPUS)**

**TECHNICAL SPECIFICATIONS PART I**

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**ARTICLE 1 SCOPE OF WORK**

The Design/Build Contractor has overall responsibility for and shall provide complete Pre-Construction Phase Services and Construction Phase Services and furnish all design services, materials, equipment, tools and labor as necessary or reasonably inferable to complete the Project, or any phase of the Project, in accordance with the Procuring Entity's requirements and the terms of this Agreement.

## ARTICLE 2                      CONTRACT DOCUMENTS

The Contract Documents form the entire and integrated Contract between Design/Build Contractor and supersede all prior negotiations, representations or agreements, written or oral. The Contract Documents consist of:

- 2.1 This Agreement and all attachments hereto;
- 2.2 The Technical Specifications for Building Construction Contracts for Carlos Hilado Memorial State University;
- 2.3 Special Conditions of the Contract prepared by the Procuring Entity;
- 2.4 The Procuring Entity's Design Guidelines;
- 2.5 The Campus Master Plan;
- 2.6 All Addenda issued prior to the Effective Date of this Agreement;
- 2.7 The Subcontracting Plan for Design Phase Services;
- 2.8 The Subcontracting Plan for Construction Phase Services when accepted by the Procuring Entity;
- 2.9 All Additional Services Proposals when accepted by the Procuring Entity;
- 2.10 All Change Orders issued after the Effective Date of this Agreement;
- 2.11 The Drawings and Specifications developed by Design/Build Contractor and accepted by Procuring Entity;
- 2.12 The Drawings and Specifications developed or prepared by Procuring Entity's PPDM and
- 2.13 Any other documents listed in this Agreement.

## ARTICLE 3                      DEFINITIONS

The terms, words and phrases used in the Contract Documents shall have the meanings given in the General Conditions of Contract Conditions and as follows.

- 3.1 **"PROCURING ENTITY"** means Carlos Hilado Memorial State University.
- 3.2 **"CONTRACT VALUE"** means the maximum monetary amount payable to the Design/Build Contractor for all Construction Phase services, materials, labor and other work required for completion of the Work in accordance with the Contract Documents. The CONTRACT VALUE includes, without limitation, the General Conditions Costs, the Cost of the Work, the Construction Phase Fee and the Design/Build Contractor's Contingency.
- 3.3 **"Construction Services"** means the implementation and execution of the construction work required by the Contract Documents. The construction phase of the Project may be divided into different stages, each with different start and completion dates.
- 3.4 **"Contract Sum"** means the total amount of all compensation payable to the Design/Build Contractor for the Project Any costs that exceed the Contract Sum shall be borne solely by Design/Build Contractor without reimbursement by Procuring Entity.

3.5 **“PMU Engineers”** means any licensed professionals engaged by Procuring Entity as independent consultants for the Project Improvements. The PMU Engineers shall act as the Procuring Entity's representative during the implementation of the project. The Design/Build Contractor shall be informed in writing of the composition of the PMU Engineers.

3.6 **“Design Services”** means all professional services required to fulfill the Pre-Construction Phase and Additional design obligations of this Agreement, including, but not limited to, programming, schematic design, design development and construction documents.

3.7 **“Direct Construction Cost”** means the sum of the amounts that the Design/Build Contractor actually and necessarily incurs for General Conditions Costs, Cost of the Work and Design/Build Contractor's Contingency during the Construction Phase as allowed by this Agreement. Direct Construction Cost does not include Pre-Construction Phase Services Fees or Construction Phase Fees.

3.8 **“Direct Salary Expense”** or **“DSE”** means the actual gross salary, expressed on an hourly wage basis, of Design/Build Contractor's and Project Architect's employees and consultants directly engaged on the Project. For DSE purposes, Project Architect's employees includes, but is not limited to, architects, officers, principals, engineers, designers, job captains, draftspersons, and specifications writers, who are performing consultation, research or design, or who are producing drawings, specifications, plans, or other documents pertaining to the Project, or who are performing services that are directly attributable to and necessary for the Project.

3.9 **“Estimated Construction Cost”** means the total cost of all elements of the project, including, without limitation, all alternates, allowances and contingencies, designed and specified by the Design/Build Contractor. The Estimated Construction Cost shall include, at current market rates with a reasonable allowance for overhead, profit and price escalation, the cost of labor and materials furnished by the Procuring Entity and any equipment which has been shown in the plans, specified, and specially provided for by the Design/Build Contractor. Estimated Construction Cost does not include Design Phase Fees. Estimated Construction Cost does not include the cost of the land, rights-of-way, or any costs that are the responsibility of the Procuring Entity.

3.10 **“General Conditions Costs”** means costs incurred and minor work performed on the jobsite by the Design/Build Contractor without the need for competitive bids/proposals. The allowable General Conditions items are further described in the Agreement and limited by attached exhibit.

3.11 **“Standards and Standard Specifications”** means the construction and design requirements and standards of Carlos Hilado Memorial State University Office of Facilities Planning and Construction, and various building and life safety codes as specified in the Procuring Entity's Design Guidelines which are incorporated by reference.

3.12 **“Subcontractor”** means a person or entity who has an agreement with the Design/Build Contractor to perform any portion of the Work. The term Subcontractor does not include the any person or entity hired directly by the Procuring Entity.

3.13 **“Total Project Cost”** or **“TPC”** means the total budget established for the Project by the Board of Trustees of Carlos Hilado Memorial State University at the end of the design development phase (subject to subsequent modification by Procuring Entity), which includes but is not limited to professional services costs, Design/Build Contractor’s costs, the costs of the General Conditions items, furniture, fixtures and equipment costs, landscaping costs, moving costs, and other miscellaneous costs.

3.14 **“Work”** means the provision of all services, labor, materials, supplies, and equipment which are required or reasonably inferable to complete the Project in strict accordance with the requirements of the Contract Documents. Work includes, but is not limited to, the Pre-Construction Phase Services, Design Services, the GMP proposal, the Construction Phase Services, and any Additional Services and other services required. The term “reasonably inferable” takes into consideration the understanding of the parties that not every detail will be shown on the Drawings and included in the Specifications.

#### **ARTICLE 4                      DESIGN/BUILD CONTRACTOR’S GENERAL RESPONSIBILITIES**

4.1 Design/Build Contractor shall perform all services specifically allocated to it by the Contract Documents as well as those services reasonably inferable from the Contract Documents as necessary for completion of the Work and the Project. Design/Build Contractor agrees to perform these services using its best efforts, skills, judgments and abilities.

4.1.1 The Design/Build Contractor shall hire a design firm to implement the design requirements for the complete building structure including but not limited to all disciplines (i.e. structural, architectural, electrical, mechanical, plumbing, fire protection, fire detection and alarm, electronic and auxiliary systems). The hiring of the said design firm shall be covered by a notarized MOA between the design/build contractor and the design firm.

4.1.2 The construction scope of the Design/Build Contractor shall cover items awarded through this contract. The succeeding construction phases will be covered by separate contracts.

4.1.3 The design firm will responsible for the design phases of the projects specifically on the following:

4.1.3.1 Design of all components

4.1.3.2 Preparation of plans

4.1.3.3 Sign and seal of all plans and documents

4.1.3.4 Attendance to all coordination meetings, site inspections and other essential consultancy services as and when required during the implementation of all phases of the entire project.

4.2 Design/Build Contractor shall coordinate with the PPDM Engineers and endeavor to further the interests of the Procuring Entity and the Project. Design/Build Contractor shall furnish Pre-Construction Phase Services and Construction Phase Services and complete the Project in an expeditious and economical manner consistent with the interests of the Procuring Entity and in accordance with the Project Schedule.

4.3 Within three (3) days of receipt of the Notice to Proceed with Pre-Construction Phase Services, the Design/Build Contractor shall submit for the Procuring Entity's review and acceptance a CPM Milestone Schedule in accordance with the Project Planning and Scheduling requirements of the Procuring Entity's Specifications. The CPM Milestone Schedule shall encompass the entire Project duration, including performance of the both the Pre-Construction Phase Services and the Construction Phase Services with sufficient total Project float to allow for a minimum of Construction Phase float as specified.

4.4 The CPM Milestone Schedule for the Pre-Construction Phase of the Project shall include reasonable amounts of time for the Procuring Entity's review and approval of design drawings and specifications and for approval of authorities having jurisdiction over the Project.

4.5 Upon acceptance of the CPM Milestone Schedule, it shall become the baseline for evaluating performance of the Project and Design/Build Contractor shall monitor the progress of the Project in relation to the CPM Milestone Schedule and provide the Procuring Entity with at least weekly updates and status reports as outlined in the Procuring Entity's Specifications. The time periods established in the CPM Milestone Schedule for the Pre-Construction Phase and the Construction Phase and the overall duration of the Project shall not be changed without written consent from the Procuring Entity. Modifications to the CPM Milestone Schedule logic, coding, layouts and filters, detail, and activity durations shall be in accordance with the Procuring Entity's Specifications.

4.6 Design/Build Contractor shall designate representative preferably an architect or a civil engineer authorized to act on the Design/Build Contractor's behalf with respect to the Project.

4.7 Design/Build Contractor shall establish procedures for communication and coordination among the Subcontractors, separate contractors, and others with respect to all aspects of the construction of the Project, and implement such procedures.

4.8 Design/Build Contractor shall establish and maintain a numbering and tracking system for all Project records, including changes, requests for information, submittals, and supplementary instructions and shall provide updated records at each Procuring Entity's meeting and when requested.

4.9 Fast Track/Multiple Completion Times. If the Procuring Entity elects to "fast-track" or develop the Project in multiple stages, Design/Build Contractor shall organize and perform its services as appropriate to each stage. Each stage of the Project may have a unique schedule for completion and a specific CONTRACT VALUE, at Procuring Entity's discretion.

4.10 Design/Build Contractor shall identify to the PPDM Engineers the employees and other personnel that it will assign to the Project. Design/Build Contractor shall also identify any consultants that will be performing services for the Project. After execution of this Agreement by the Procuring Entity, Design/Build Contractor shall not remove or replace the persons or entities assigned to the Project except with the Procuring Entity's written consent, which consent shall not be unreasonably withheld. Design/Build Contractor shall not assign to the Project or contract with any person or entity to which Procuring Entity has a reasonable objection. Design/Build Contractor shall promptly update the list of persons and consultants if they change during the course of the Project.

## **ARTICLE 5            PRE-CONSTRUCTION PHASE**

The Pre-Construction Phase shall be deemed to commence upon the date specified in a Notice to Proceed with Pre-Construction Phase Services issued by Procuring Entity and shall continue through completion of the Construction Documents and procurement of all major Subcontractor agreements. Design/Build Contractor is not entitled to reimbursement for any costs incurred for Pre-Construction Phase Services performed before issuance of the Notice to Proceed. Pre-Construction Phase Services may overlap Construction Phase Services. The Design/Build Contractor shall perform the following Pre-Construction Phase Services.

### **5.1 PRE-CONSTRUCTION SERVICES**

#### **5.1.1 General Coordination**

5.1.1.1 The Design/Build Contractor's Pre-Construction Phase Services team shall attend PPDM Engineers meetings with the Procuring Entity, the Procuring Entity's representatives, and the Design/Build Contractor at regularly scheduled intervals throughout the Pre-Construction Phase

5.1.1.2 Provide a preliminary evaluation of the Procuring Entity's Design Criteria and the CONTRACT VALUE, each in terms of the other.

5.1.1.3 Review and understand the standards and requirements in Procuring Entity's Specifications and perform all services in accordance with those standards and requirements.

5.1.1.4 Visit the site and inspect the existing facilities, systems and conditions to insure an accurate understanding of the existing conditions as required. The frequency and total number of such visits will be upon the discretion of the Design/Build Contractor the cost of which will be deemed included within the project cost.

5.1.1.5 Provide recommendations and information to the PPDM Engineers on: site usage and site improvements; building systems, equipment and construction feasibility; selection and availability of materials and labor; time requirements for installation and construction; assignment of responsibilities for safety precautions and programs; temporary Project facilities; equipment, materials and services for common use of the Design/Build Contractor and Procuring Entity's separate contractors, if any; cost factors, including costs of alternative

materials or designs, preliminary budgets, and possible cost savings; recognizing and tracking the resolution of conflicts in the proposed Drawings and Specifications; methods of delivery of materials, systems, and equipment; and any other matters necessary to accomplish the Project in accordance with the Project Schedule (as defined herein) and the CONTRACT VALUE.

5.1.1.6 Select and direct the services of surveyors, soils engineers, existing facility surveys, testing and balancing, environmental surveys or other special consultants to develop additional information for the design or construction of the Project.

### **5.1.2 Constructability Program**

5.1.2.1 Implement and conduct a constructability program to identify and document Project cost and schedule savings opportunities. The constructability program shall follow accepted industry. Whenever the term “value engineering” is used in conjunction with this Agreement or the Project, it has its commonly accepted meaning within the construction industry and does not imply the practice of professional engineering without a license. If any value engineering activities constitute the professional practice of engineering, then such activities shall be performed by a licensed engineer.

5.1.2.2 Prepare a “Request for Information” that identifies items that, in the Design/Build Contractor’s opinion, may negatively impact construction of the Project. The RFI shall address the overall coordination of Project Drawings, Specifications, and details and identify discrepancies that may generate Change Orders or claims once Project construction commences. The RFI shall be updated at least monthly during the Pre-Construction Phase.

5.1.2.3 Provide and implement a system for tracking questions, resolutions, decisions, directions and other information matters that arise during the development of the Drawings and Specifications for the Project. The decision tracking system shall be in a format approved by the Procuring Entity and updated at least bi-monthly during the Pre-Construction Phase.

### **5.1.3 Budget and Cost Consultation**

5.1.3.1 The Design/Build Contractor shall prepare and update all procurement and construction cost estimates and distributing them to the PPDM Engineers throughout the duration of the Project.

5.1.3.2 Provide Estimated Construction Cost (ECC) reports at the required stages of completion of the schematic design, design development, and construction document stages of the Project. The Estimated Construction Cost reports for the design development and construction document stages shall be detailed estimates derived from cost quantity surveys based on unit prices for labor, materials, overhead and profit for each portion of the Work.

5.1.3.3 Provide continuous cost consultation services throughout the duration of the Project, including identification and tracking of decisions that affect the scope or quality of the Project and providing ongoing updates of their cost and budget impact.

5.1.3.4 Advise the PPDM Engineers immediately if the Design/Build Contractor has reason to believe that the most current ECC will exceed the CONTRACT VALUE or not meet Schedule requirements and recommend reasonable strategies for bringing the Project in line with the CONTRACT VALUE and the Schedule.

#### **5.1.4 Coordination of Design and Construction Contract Documents**

5.1.4.1 Review all Drawings, Specifications, and other Construction Documents as they are developed during the schematic design, design development, and construction document design stages of the Project.

5.1.4.2 Consult with the PPDM Engineers on the selection of materials, equipment, component systems, and types of construction used on the Project. Advise the PPDM Engineers on site use, construction feasibility, availability of labor and materials, procurement time requirements, and construction coordination.

5.1.4.3 Advise the PPDM Engineers of any error, inconsistency or omission discovered in the Drawings, Specifications, and other Construction Documents.

5.1.4.4 Advise Procuring Entity / PPDM Engineers on reasonable adjustments in the Project scope, quality or other options for keeping the Project cost within the CONTRACT VALUE.

5.1.4.5 Review the Construction Documents for compliance with all applicable laws, rules and regulations of RA 9184 and with CHMSU System requirements.

#### **5.1.5 Construction Planning and Bid Package Strategy**

5.1.5.1 Identify equipment or material requiring extended delivery times and advise Procuring Entity on expedited procurement of those items. Advise Procuring Entity and/or the PPDM Engineers on the preparation of performance specifications and requests for technical proposals for the procurement and installation of systems and components and for the procurement of long lead items. If requested by Procuring Entity, and subject to Procuring Entity's prior approval, issue requests for technical proposals to qualified sources and receive proposals and assist in their evaluation.

5.1.5.2 Advise PPDM Engineers of any tests to be performed, and nominate in selecting testing laboratories and consultants, without assuming direct responsibility for the work of such laboratories and consultants. The PPDM Engineers however, will approve the testing center from the list nominated by the Design/Build Contractor.

5.1.5.3 Provide an analysis of the types and quantities of labor required for the Project and review the appropriate categories of labor required for critical phases or Stages. Make recommendations that minimize adverse effects of labor shortages.

### **5.1.6 Safety**

5.1.6.1 In accordance with Procuring Entity's General Conditions of Contract Conditions, Design/Build Contractor is responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the Work. The safety program shall comply with all applicable requirements of the Occupational Safety and Health Standards, as amended 1989 and all other applicable national and local laws and regulations and with the requirements of a Procuring Entity controlled insurance program, if any.

5.1.6.2 Design/Build Contractor shall provide recommendations and information to Procuring Entity and PPDM Engineers regarding the assignment of responsibilities for safety precautions and programs, temporary Project facilities, and equipment, materials, and services for common use of the Subcontractors. Design/Build Contractor shall verify that appropriate safety provisions are included in the Construction Documents. The existence or creation of any Procuring Entity controlled insurance program in connection with the Work shall not lessen or reduce the Design/Build Contractor's safety responsibilities.

## **5.2 DESIGN SERVICES**

### **5.2.1 General Responsibilities**

5.2.1.1 Design/Build Contractor shall designate in writing a design coordinator preferably a licensed architect and/or a civil engineer who is responsible for the day-to-day management of the Design Services. The designated representative shall be the Procuring Entity's primary contact during the design phase of the Project and shall be available as required for the benefit of the Project and the Procuring Entity. The designated representative shall be authorized to act on behalf of and to bind the Design/Build Contractor in all matters related to Design Services. The designated representative shall not be changed without advance written approval from the Procuring Entity, which approval shall not be unreasonably withheld.

5.2.1.2 Design/Build Contractor shall engage the services of a Project Architect/Civil Engineer, Structural Engineer, Professional Mechanical Engineer, Professional Electrical Engineer, Professional ECE, Master Plumber, and other qualified professionals as required for performance of the Design Services. Design/Build Contractor certifies that the project architect/engineer and all other professional design engineers have been or will be selected on the basis of competence, qualifications and previous working experience on similar scope for at least three (3) years.

5.2.1.3 In the event that the Design/Build Contractor is not capable to perform any design services directly, he may opt to hire the services of a licensed design firm. The Design/Build Contractor shall submit not later than seven (7) calendar days from the date of the NTP the certified true copy of the notarized MOA with the design firm who shall undertake the design requirements. All drawings, specifications, change orders and other design documents shall be signed and sealed by the licensed professionals who prepared them in accordance with the applicable laws and regulations of the Philippines.

5.2.1.4 Project Architect/Civil Engineer shall be solely responsible for all obligations to the Design/Build Contractor and shall pay for the services of the Project Architect/Civil Engineer and all other professional service providers out of the fees for this Agreement. However, the Procuring Entity shall be identified as an intended beneficiary in all such agreements and the Design/Build Contractor and all other professional service providers shall acknowledge that they owe a duty of professional care to the Procuring Entity for the Design Services provided for the Project. Nothing in this Agreement shall create any contractual obligation from the Procuring Entity to the Project Architect or other design professionals not hired directly by the Procuring Entity.

5.2.1.5 The Project Architect shall be responsible for managing the Design Services so as to insure that the Project, as designed, can be constructed for an amount that is within CONTRACT VALUE and will achieve the energy and operational savings required by the Contract. The obligation to design the Project so as to achieve the Program objectives of scope and cost shall continue through completion and acceptance of Construction Documents. Any adjustment to the scope or quality considered necessary to comply with the CONTRACT VALUE or the Program during the design phase shall be mutually agreed upon and shall be considered normal to that process.

5.2.1.6 The Design/Build Contractor shall submit the names of all proposed consultants for Design Services, including the Project Architect and any of its consultants, for approval by the Procuring Entity, which approval shall not be unreasonably withheld. The Design/Build Contractor shall provide the Procuring Entity with a copy of the fully executed contract or agreement authorizing services by any such consultant. All such contracts shall provide that the consultants are bound to Design/Build Contractor in the same manner and to the same extent as Design/Build Contractor is bound to Procuring Entity.

5.2.1.7 The Design Services shall incorporate current technology as appropriate to the stated mission of the institution and the programmed functional activities that is compatible with any existing facility and acceptable to the Procuring Entity.

5.2.1.8 All Design Services for the Project shall be provided in accordance with the Procuring Entity's Design Guidelines, Design Criteria, which are incorporated herein by reference, and any other criteria applicable to the facility program and the needs of the institution.

5.2.1.9 The Design/Build Contractor warrants to Procuring Entity the sufficiency and completeness of all Design Services performed and that all drawings, specifications, and other information furnished or provided by Design/Build Contractor shall be free from material errors and omissions. Approval or acceptance of any Design Services by Procuring Entity shall not in any way release Design/Build Contractor from any duty, responsibility or liability for such services, it being understood that Procuring Entity is at all times relying upon Design/Build Contractor's skill and knowledge in performing the Design Phase Services.

5.2.1.10 Procuring Entity shall have the right to reject any defective Design Services or other defective Work on the Project of which Procuring Entity becomes aware and Design/Build

Contractor shall promptly correct any such defect at Design/Build Contractor's expense. Should any portion of the Project Work be damaged or defective due to an error or omission in the Design Services, including errors or omissions in any plans, drawings, specifications, and other construction document materials prepared or furnished by Design/Build Contractor, Design/Build Contractor shall promptly correct any such damage or defect at no additional cost to the Procuring Entity. Should the Design/Build Contractor refuse or neglect to correct any such damage or defect within a reasonable time after notice, Procuring Entity may cause the damage or defect to be corrected and withhold payment or collect monetary damages equal to the cost of replacing or repairing the defective Work.

5.2.1.11 Procuring Entity may elect, at its option, to stage or to "fast-track" construction of the Project in different stages. Such stages may or may not overlap. Design/Build Contractor shall perform Design Services in staged packages as appropriate to each stage of construction which may result in differing schedules and reviews for the completion of each design stage and for each stage of planned construction.

5.2.1.12 At each stage of the Design Services, Design/Build Contractor shall prepare the drawings and implement the following services as appropriate:

## **ARCHITECTURAL SCOPE OF WORKS**

### **1. Design and Plans**

- 1.1 Ecological Architecture Concept
- 1.2 Introduction of Green Concepts as per provisions of the Philippine Green Building Code.
- 1.3 The academic building should comply with the CHED, BP344, OBO, BFP, and NBCP requirements.
- 1.4 Academic Building space allocations shall conform to the End User's requirements.
- 1.5 All finishes and materials shall follow the SCHEDULE OF FINISHES, otherwise of similar quality, and for end-users' approval.

### **2. Architectural scope of work shall include the following:**

#### **2.1 Minimum Dimension Requirements**

- 2.1.1. The size of the classroom must be 7.00 meters in width x 9.00 meters in length measured from the centers of the walls.
- 2.1.2. The corridors must not be less than 3 meters in width and should be provided with concrete railings with stainless steel hand rail at a total height of not less than 1.20 meters.
- 2.1.3. Concrete stairs must have a clear width of not less than 2 meters
- 2.1.4. Number and width the of stairways per school building shall comply with the requirements stipulated in the National Building Code of the Philippines (NBCP).

## **2.2 Doors and Windows**

- 2.2.1. The total area of window openings must be at least 10.00 square meters to provide natural ventilation and illumination.
- 2.2.2. The window sill must be higher than 0.90 meter from the finished floor line (FFL).
- 2.2.3. The window panels, when opened, must not be an obstruction along the corridor.
- 2.2.4. Jambs shall be provided for all window openings.
- 2.2.5. The thickness of glass shall conform to the standard thickness as specified in the Technical Specifications Part 2.
- 2.2.6. The window frames shall be made of aluminum.
- 2.2.7. Awning Windows for second and third floor hallways.
- 2.2.8. There shall be two (2) doors for every classroom.
- 2.2.9. The door swing-out angle should be 180 degrees.
- 2.2.10. The doors must be at least 0.90 meter in clear width and 2.10 meters in clear height.
- 2.2.11. The size of the door jamb shall not be less than 6 inches for the panel doors.
- 2.2.12. Include heavy duty foot bolt for all doors
- 2.2.13. Lever-type door knob lockset will be used for all doors.
- 2.2.14. Steel Door (Fire Rated) with louvers shall be used for Electrical Room.
- 2.2.15. Panel Door with Side Glass Panel shall be used for every classroom.
- 2.2.16. Refer to the Finishing Schedule for the doors and windows finishes specified for other areas.

**2.3 Soil Poisoning/ Termite Control** shall be done in a reticulation system with damp proofing.

## **2.4 Floor Finishes**

- 2.4.1 A continuous access ramp smooth Matte Cement with grooves every 10cm from the ground floor to the third floor must be provided with a maximum slope of 1: 20 in compliance with the Accessibility Law (B.P. No. 344).
- 2.4.2 Refer to the Finishing Schedule for the floor finishes specified for other areas.

## **2.5 Wall Finishes**

- 2.5.1 Classroom partitions must be from floor to bottom of beam Exterior Walls
- 2.5.2 Walls must be free from dents, cracks and cannot be easily deformed when hit by an object.
- 2.5.3 The insulation within the walls should be fire-rated for at least 2-hours.
- 2.5.4 External walls and partitions must be water-resistant and must not absorb more than 5% of its volume.
- 2.5.5 Wall paint/color scheme for internal and external finishes

(See *Conceptual Plan and Finishing Schedule*).

- 2.5.6 Paint Materials must be certified lead-safe paints/ coatings.
- 2.5.7 Refer to the Finishing Schedule for the wall finishes specified for other areas.

## **2.6 Ceiling**

- 2.6.1 Painted concrete slab finish for the ground and second floors.
- 2.6.2 Fiber cement board ceiling for third floor with metal joist and support for all classrooms
- 2.6.3 Provide Ceiling Ventilation.
- 2.6.4 The clear height of rooms from FFL to the finished ceiling line (FCL) must be at least 2.70 meters.
- 2.6.5 Provide provision for ceiling catwalk.
- 2.6.6 Exposed Soffit ceiling for Male and Female Toilet, painted matte black (pipes, raceways, etc.)
- 2.6.7 Refer to the Finishing Schedule for the ceiling finishes specified for other areas.

## **2.7 Masonry works**

- 2.7.1 All masonry works shall conform to the provisions of the Philippine Building Code of the Philippines. The minimum compressive strengths are:
  - $f_c' = 350 \text{ psi (2.41 MPa)}$  for non-loadbearing CHB
  - $f_c' = 750 \text{ psi (5.17 MPa)}$  for loadbearing CHB.
- 2.7.2 Mortar, plastering and reinforcements.

## **2.8 Fixtures and Hardware**

- 2.8.1 Standard dimensions for installation of all the fixed fixtures, hardware, and other utilities shall be observed but not limited to lavatories, faucets, water closet, switches, outlets and railings.
- 2.8.2 Provide water closets, lavatories, toilet paper holder, soap holder, towel holder, bidet, coat hooks, faucets, stainless-steel floor drains and urinals.

## **2.9 Painting Works**

- 2.9.1 To include surface preparations and painting of exposed pipes and protrusions/mouldings; one (1) priming coat/sealer and two (2) finishing coat for:
  - 2.9.1.1 Concrete Surfaces
  - 2.9.1.2 Metal Surfaces
  - 2.9.1.3 Wood Surfaces
- 2.9.2 Painting application must be referred to the product technical data sheet.
- 2.9.3 Apply putty as needed.

- 2.9.4 Cementitious waterproofing shall be applied to every toilet flooring before installation of tiling works.

## **2.10 Roofing and Insulation**

- 2.10.1 The roofing material must be adequately protected from rust/oxidation, salt air, acid rain, or other sources and forms of corrosion.
- 2.10.2 Roofing shall be of 0.60 mm base metal thickness (BMT), long span, galvanized steel with Z40 coating, pre-painted, and securely fastened to the roof frames (*Baguio Green Rib Type*).
- 2.10.3 Bended accessories.
- 2.10.4 The size of purlin must be based on the structural design of the roof frames but in no case smaller than 1.5 mm thickness x 2" x 6". C-purlins must be spaced not more than 50 cm on center.
- 2.10.5 Roofing insulation must be provided to repel the heat from entering the classroom. It is critical that the roofing insulation, placed between the roof and C-purlins, must have a minimum insulation value of R8 and must be double sided insulation. This is to provide thermal comfort inside the classroom.

## **2.11 Plant Boxes and Plants**

- 2.11.1 Proposed plants for the ground floor plant boxes will be subjected to end user's approval.

## **2.12 Railings**

- 2.12.1. Handrails with steel railings must be provided.
- 2.12.2. Schedule 20, 304 stainless steel railings and handrails for staircase, PWD ramp, PWD Toilet, ground floor and hallways.
- 2.12.3. Concrete Baluster Railings with stainless steel handrail for continuous access ramp and hallways.

## **2.13 Façade of the Building and Floor Layout**

- 2.13.1 The façade and floor plans of the building will not be changed and will be based on the drawings provided. Any alterations from the given facade and floor plans will need an approval from the PMU Office.

## **2.14 Waterproofing**

- 2.14.1 Damp proofing shall be provided for slab on grade, 8 mils, clear or white polyethylene sheet.
- 2.14.2 Waterproofing for toilets, ledges, canopies, planters and walls.

## **2.15 Specialty Works**

- 2.15.1 Aluminum Vertical Louvers Access Ramp Façade
- 2.15.2 Mirror for comfort rooms

- 2.15.3 Illuminated Directional Signages and emergency exit signs
- 2.15.4 Solid Compact Phenolic Board Toilet Partition with complete Hardware and Accessories.
- 2.15.5 Use Classroom Tempered Glass boards

3. The following were the **minimum required plans for architectural works:**

- 3.1 Vicinity Map
- 3.2 Site Development Plans
- 3.3 Perspective Plans
- 3.4 Floor Plans
- 3.5 Roof Plan
- 3.6 Right and Left Side Elevation
- 3.7 Front and Rear Elevation
- 3.8 Section Details
- 3.9 Schedule Of Doors and Windows
- 3.10 Staircase and Handrail Details
- 3.11 Comfort Room Details
- 3.12 Reflected Ceiling Plans
- 3.13 Floor And Wall Finish Plans
- 3.14 Landscaping Plan
- 3.15 Blow-up Details
- 3.16 Wall Elevations
- 3.17 Roof Eaves Details
- 3.18 PWD Ramp Details
- 3.19 Continuous Access Ramp and Handrail Details

## **CIVIL/ STRUCTURAL SCOPE OF WORKS**

### **1. Structural Design and Analysis in Accordance with the Latest Edition of National Structural Code of the Philippines (NSCP)**

- 1.1 Provide Structural Analysis and Design
- 1.2 The design wind loads are as per provisions of the NSCP Latest Edition.
- 1.3 The design earthquake loads are as per provisions of the NSCP for Earthquake Zone 4.

### **2. Excavation, Backfilling, and Compaction Works**

- 2.1 Mechanized Excavation, Backfilling, and Compaction Works, Including Retaining Wall Construction
- 2.2 Include Demolition of Existing CH Building/Site Clearing/Temporary Enclosure

### **3. Concrete Works**

- 3.1 Ready Mixed Concrete (RMC) will be used.
- 3.2 Concrete mix design shall conform to ACI 211.1 and ACI 301. The minimum 28-day cylinder compressive strength shall be:  
 $f_c' = 27.58 \text{ MPa (4000 psi)}$  for Foundation, Columns, Stairs, Beams and Slab

$f_c' = 24.13 \text{ MPa (3500 psi)}$  for Lean Concrete and Slab on Grade

3.3 Admixtures to be used in concrete shall be subject to prior approval of the Structural Engineer.

#### **4. Reinforcements**

4.1. The minimum yield strength of reinforcement to be used shall be as follows:

$f_y = 60,000 \text{ psi (414 MPa)}$  for main bars 16mm diameter and up.

$f_y = 40,000 \text{ psi (276 MPa)}$  for reinforcements 12mm dia. and below.

#### **5. Formworks**

5.1 Supply, installation, and maintenance of formwork systems for all cast-in-place concrete works, including beams, slabs, columns, walls, and footings. Use phenolic boards for all contact surfaces.

5.2 Use phenolic-coated plywood (marine-grade) for all concrete contact surfaces to ensure smooth finish and dimensional accuracy.

5.3 Provide galvanized iron (GI) pipe scaffolding and shoring system, complete with adjustable jacks and bracing, to support formworks in accordance with imposed loads and safety requirements.

5.4 Dismantling and stripping of formworks only after concrete has attained the required minimum strength, in accordance with approved curing period and relevant structural specifications.

#### **6. Testing**

6.1 The following test shall be conducted but not limited to as part of QA/QC

6.1.1 Concrete Compressive Strength Test

6.1.2 Masonry Compressive Strength Test before Delivery

6.1.3 Rebar Tensile Strength Test before Delivery

6.1.4 Rebar Bending Strength Test before Delivery

6.1.5 Slump Test

6.1.6 Field Density Test Shall Be Conducted Prior To Concreting of S.O.G.

#### **7. The following were the minimum required plans for Structural Works:**

- a. General Notes
- b. Foundation/ Footings
- c. Footing Tie-Beams
- d. Wall Footing
- e. Stiffener Columns
- f. Concrete Columns
- g. Slab On Grade
- h. Retaining Wall
- i. Floor Framing
- j. Concrete Beams, Slab, Canopies and Ledges Details
- k. Roof And Roof Framing Details

- l. Concrete Septic Vault
- m. Concrete Stairs and Stair Section Details
- n. Fire Exit Stairs
- o. Continuous Access Ramp Structural Details
- p. Fire Tank Details
- q. Connecting Bridge Design and Provision of Corbel

## **PLUMBING/ SANITARY/ PIPELINE SCOPE OF WORKS**

### **1. Design and Plans**

- 1.1 Toilets and sanitary facilities shall be in accordance with the Plumbing Code and the Sanitary Code of the Philippines.

### **2. Sanitary**

- 2.1 Slope should be at least 1.5% for all horizontal sanitary PVC pipe, with vent stack and clean-outs.
- 2.2 Use wye (long sweep or short sweep depending on the requirement) fitting to connect vertical and horizontal pipes. Usage of 90 degrees fitting to connect vertical and horizontal pipes is prohibited.
- 2.3 Use series 1000 PVC for sanitary pipes.
- 2.4 The septic tank is designed with a sufficient volume capacity to serve the entire Building. All concrete septic tanks, if used as the sanitation solution, shall be protected from corrosion by coating with an approved bituminous coat or by other acceptable means.
- 2.5 Provide sand beddings for underground sanitary PVC pipes.
- 2.6 Provide cleanout for all sanitary pipes especially if there is a shift of direction.
- 2.7 Provide P-traps to prevent backflow of foul odor.

### **3. Waterlines**

- 3.1 Use PPR pipes and fittings for waterlines.
- 3.2 Ensure strong water pressure on ground floor and second floor toilets, shower, and laundry area.
- 3.3 Provide and install two (2) 1,500-L polyethylene day tanks, two (2) 200-L bladder tanks, two (2) 2-HP pressure pumps, and the associated level control system at the ground floor (See plan for reference). Include the construction of a supporting platform and a protective enclosure with roofing for the complete installation.
- 3.4 Connect to the nearest water supply to provide water to the building.

### **4. Testing**

- 5.1 Pressure Test for waterlines
- 5.2 Water Test for sanitary pipe lines to ensure water tightness.
- 5.3 Leak Test & Flow Test
- 5.4 Floor Drain Testing to be conducted.

5.5 Testing and commissioning prior to completion of the project.

**5. The following are the minimum required plans for Plumbing & Sanitary Works:**

- a. General Notes
- b. Details & Legends
- c. Water Supply Lay-out & Isometric Drawing
- d. Sanitary/Sewer Lay-out & Isometric Drawing
- e. Drainage Lay-out/Manhole, and Hallway
- f. Septic Vault Detail

**ELECTRICAL SCOPE OF WORKS**

**1. Electrical Design and Analysis**

- 1.1 The electrical design must in be accordance with the latest edition of the Philippine Electrical Code (PEC). It must be provided with the basic electrical power and lighting layout, general notes, riser diagram, single line diagram, legends and symbols, load schedule and auxiliary layouts.
- 1.2 Incoming power supply will be 3 phase, 3 wire with grounding, 230 volts, as per actual requirements. Supply with 3-phase power transformer with CT metering.
- 1.3 Electrical Design Analysis (Voltage drop and short circuit calculations) shall be submitted together with the electrical panel's design/plans.
- 1.4 Electrical scope of works and design shall include the following:
  - 1.4.1 Lighting and Convenience Outlet Systems.
  - 1.4.2 Power supply for Ventilation, Exhaust Equipment, and ceiling/wall fans.
  - 1.4.3 Lightning Protection and Grounding System
  - 1.4.4 Main distribution panel with circuit breakers for every circuit line. Provide Individual circuit breakers for every major equipment. All panels are to be provided with wire gutters. Panels are rated NEMA 2 enclosure.
  - 1.4.5 Provide Emergency Lighting System
  - 1.4.6 Provide Exit Lighting

**2. Lightings**

- 2.1 Provide adequate illumination in rooms (minimum of nine (9) double troffer lights per lecture room), hallways and other working areas. Lighting Lux shall be as per requirements of Illumination Engineering Standard.
- 2.2 Emergency lights and lighted exit lights with battery.
- 2.3 Provide perimeter lights for security purposes.

**3. Power Supply and Outlets**

- 3.1 Adequate numbers of convenience outlets as per electrical code shall be provided, enough to cater all the equipment (TV, projectors, emergency lights, wall fans, etc.) to be provided by the End User.

3.2 Power supply for equipment shall be based on the actual power rating of equipment to be provided by the End User.

#### **4. Grounding and Lightning Protection System**

4.1 Grounding and lightning protection systems shall be provided and interconnected with the provision of test wells.

#### **5. Electrical Plans**

5.1 Electrical General Notes, Legends, and Symbols

5.2 Single Line Diagram

5.3 Schedule of Loads

5.4 Complete the Diagram and Layout of the following systems

5.4.1 Lightings

5.4.2 Power

5.4.3 Grounding and Lightning Protection System

5.4.4 Data / Telephone (includes networking)

5.4.5 Fire Detection and Alarm System

5.4.6 CCTV Systems

5.4.7 Public Address/Paging System

5.4.8 Detailed Drawing of Device Mounting and Installation

#### **6. Testing**

6.1 Testing and commissioning prior to completion of the project.

### **MECHANICAL AND FIRE PROTECTION SCOPE OF WORKS**

#### **1. Design and Analysis**

1.1 All Mechanical and Fire protection designs shall conform to the Philippine Mechanical Code of the Philippines and Fire Code of the Philippines and its latest Implementing Rules and Regulations (IRR).

1.2 Computation for the exhaust capacity.

1.3 Mechanical and fire protection design shall include the following:

1.3.1 Ceiling fans, Exhaust fans and Ventilation Systems

#### **2. Exhaust and Ventilation**

2.1 Natural ventilation shall be primarily supplied by the windows and vents.

2.2 Additional ventilation inside each classroom shall be supplied by wall fans (minimum of 4 per lecture rooms).

2.3 Electrical room and storage rooms to be provided with exhaust vents.

#### **3. Fire Protection**

3.1 The requirements shall include a fire alarm system, hose boxes/reels, extinguishers and other firefighting equipment.

3.2 Provide portable fire extinguishers to desired areas (lecture rooms, hallways, etc.).

#### **4. Testing**

4.1 Testing and commissioning prior to completion of the project.

### **FIRE DETECTION AND ALARM SYSTEM (FDAS)**

1. FDAS – An adequate number of smoke detectors shall be provided as per NFPA standards requirements.
2. Conventional Type Fire Alarm Control Panel
3. Fire alarm control panel with battery backup.
4. Provide and install fire extinguishers in every room and along hallways at 15-meter intervals.
5. Provide emergency evacuation plans/layout in every rooms.
6. Testing
  - a. Testing and commissioning prior to completion of the project.

### **ELECTRONICS AND NETWORK COMMUNICATION**

1. All Electronics and Communication works shall conform to the Philippines Electronics Code.
2. Provide complete electronics plan.
3. CCTVs to cover common areas and external areas (all corridors, stairs, etc.).
4. CCTV system must be compatible with the existing CHMSU system.
5. Provide and install a CCTV monitoring system with a monitor capable of displaying feeds from all installed CCTV cameras, including a suitable mounting frame, at the Executive Director's (ED) Office.
6. Provide Public Address/Paging system (minimum of 2 speakers per floor).
7. Provide LAN system
8. Testing
  - a. Testing and commissioning prior to completion of the project.

### **SPACE REQUIREMENT (See conceptual layout and design)**

#### ***Ground floor***

1. Multipurpose Open and Common Area
2. Hallways
3. 1-Male and 1-Female Comfort Room
4. 1-PWD and All-Gender Comfort Room
5. 2-Storage Rooms
6. 1-Electrical Room
7. Stairs and Ramp Access
8. Continuous Access Ramp
9. Plant Boxes

#### ***Second Floor***

1. 5-Lecture Rooms
2. 1-Male and 1-Female Comfort Room
3. 1-PWD and All-Gender Comfort Room
4. Hallways
5. 1-Electrical Room
6. Stairs and Ramp Access

***Third Floor***

1. 5-Lecture Rooms
2. 1-Male and 1-Female Comfort Room
3. 1-PWD and All-Gender Comfort Room
4. Hallways
5. 1-Electrical Room
6. Stairs and Ramp Access

***IMPORTANT NOTE:***

*All construction plans and drawings shall be designed (signed and sealed) by a professional in accordance with its specialized scope of work.*

*The contractor's Professional designer's scope of work will end after the acquisition of Occupancy permits. However, this does not relieve the designer of his responsibilities as a designer during the defect's liability period and the warranty period.*

5.7.1.1 The Design/Build Contractor, as part of Basic Services, shall assist with and attend with Procuring Entity Representatives At a minimum, Design/Build Contractor shall provide an evaluation for the minimum compliance to the Philippine Green Building Code (P.D. 1096).

5.7.1.2 Design/Build Contractor shall seek to comply with the optimum Performance Standards of PD 1096 and provide a Statement of Compliance certifying that the project design complies with the standards.

5.7.1.3 Design/Build Contractor shall not proceed to any subsequent stage of Design Services until Procuring Entity has authorized Design/Build Contractor to proceed in writing, except at the Design/Build Contractor's sole financial risk.

**5.7.2 Pre-Design Stage**

5.7.2.1 The Design/Build Contractor shall provide a preliminary evaluation of the Procuring Entity's Design Criteria and the CONTRACT VALUE, each in terms of the other.

5.7.2.2 The Design/Build Contractor shall visit the site to become sufficiently familiar with the existing facilities, systems and conditions to ensure that the Project as designed will functionally interface with the existing conditions as required.

5.7.2.3 The Design/Build Contractor shall review laws applicable to the design and construction of the Project and advise the Procuring Entity if any program requirement may cause a violation of such laws.

5.7.2.4 Before proceeding to the Schematic Design Stage, the Design/Build Contractor shall obtain Procuring Entity's written approval of the Facility Program and the preliminary construction cost estimate and written authorization to proceed.

**5.7.3 Schematic Design Stage**

5.7.3.1 Based on the approved pre-design documents and any adjustments to the Program or CONTRACT VALUE authorized by the Procuring Entity, the Design/Build Contractor shall develop sufficient alternative approaches to design and construction of the Project and review them with the Procuring Entity. The Design/Build Contractor shall prepare Schematic Design documents and a preliminary construction cost estimate and submit them to the Procuring Entity for approval. The construction cost estimate shall affirm adherence to the CONTRACT VALUE.

5.7.3.2 The Design/Build Contractor shall furnish and deliver to the Procuring Entity the number of complete printed sets of Schematic Design documents as required.

5.7.3.3 Before proceeding to the Design Development Stage, the Design/Build Contractor shall obtain Procuring Entity's written authorization to proceed and the Procuring Entity's approval of the preliminary construction cost estimate. The total of all the costs include the Pre-Design and Design stages shall in no way exceed the Contract Value without the approved Change Order.

#### **5.7.4 Design Development Stage**

5.7.4.1 Based on the approved Schematic Design documents and any adjustments to the Program or CONTRACT VALUE authorized by the Procuring Entity, the Design/Build Contractor shall prepare Design Development documents and a detailed construction cost estimate and submit them to the Procuring Entity for approval. The Design Development Documents shall fix and describe the size and character of the entire Project, including site work, architectural, structural, mechanical and electrical systems, materials and such other elements as may be appropriate. The detailed construction cost estimate shall confirm adherence to the CONTRACT VALUE

5.7.4.2 The Design/Build Contractor shall furnish and deliver to the Procuring Entity the number of complete printed sets of Design Development documents as required.

5.7.4.3 The Design/Build Contractor shall prepare presentation materials as described in Procuring Entity's Design Guidelines at completion of Design Development and, if requested, present them at a Board of Trustees meeting.

5.7.4.4 Before proceeding into the Construction Document Stage, the Design/Build Contractor shall obtain Procuring Entity's written approval of the Design Development documents.

#### **5.7.5 Construction Documents Stage**

5.7.5.1 Based on the approved Design Development Documents and any further adjustments to the Program, the CONTRACT VALUE or the Project Construction Cost as authorized by the Procuring Entity, the Design/Build Contractor shall prepare Construction Documents consisting of Drawings and Specifications and submit them to the Procuring Entity for approval. The Construction Documents shall set forth in detail the requirements for

construction of the Project. The Construction Documents shall provide for the construction of the Project within the approved Contract Value.

5.7.5.2 The Construction Documents shall be consistent in all material respects with Design/Build Contractor's prior design proposals to Procuring Entity and within the approved Contract Value.

5.7.5.3 The Design/Build Contractor shall submit the construction phasing and scheduling, the construction contract time period, and such other construction conditions considered appropriate for the Project. Under no circumstance will the pre-design, design and construction phases shall exceed the contract period stipulated on the signed agreement unless an extension of time is duly approved by the Board of Trustees or is authorized representative.

5.7.5.4 The Design/Build Contractor shall assist and advise the Procuring Entity and the PPDM Engineers in connection with the Procuring Entity's responsibility and procedures for obtaining approval of concerned governmental authorities having jurisdiction over the Project.

5.7.5.5 The Design/Build Contractor shall furnish and deliver to the Procuring Entity the number of complete printed sets of Construction Documents as required.

5.7.5.6 Following Procuring Entity's approval of the Construction Documents, Design/Build Contractor shall deliver to the Procuring Entity Computer-aided Design and Drafting ("CADD") system copies of the Construction Documents in the format and media specified by the Procuring Entity.

5.7.5.7 Following Procuring Entity's approval of the Construction Documents, Design/Build Contractor shall not be entitled to any adjustment in the approved Project Construction Cost except for changes in Project scope or quality which materially increase or decrease the cost to construct the Project that are ordered by Procuring Entity in writing.

#### **5.7.6 Review Drawings**

5.7.6.1 The Design/Build Contractor, at its sole expense, shall provide Procuring Entity with the required number of design document review sets at each required stage of completion:

5.7.6.2 The Design/Build Contractor shall incorporate into the documents such corrections and amendments as the Procuring Entity requests at each stage review, unless the Design/Build Contractor objects to such changes in writing and Procuring Entity agrees to the objections. Any additional cost incurred due to Design/Build Contractor's failure to incorporate Procuring Entity's requested corrections and amendments shall be borne by the Design/Build Contractor.

5.7.6.3 Design/Build Contractor shall identify to Procuring Entity in writing anything in Design/Build Contractor's drawings and specifications and any drawings, plans, sketches, instructions, information, requirements, procedures, requests for action, and other data supplied to Design/Build Contractor (by Procuring Entity or any other party) that Design/Build Contractor regards as unsuitable, improper, or inaccurate in connection with the purposes for

which such documents or data are furnished. Design/Build Contractor shall be solely responsible for the use of such documents or data unless Design/Build Contractor advises Procuring Entity in writing that in its opinion such documents or data are unsuitable, improper, or inaccurate and Procuring Entity instruct the Design/Build Contractor in writing to proceed in accordance with the documents or data as originally given.

5.7.6.4 The Design/Build Contractor shall pay all costs for plans, specifications and other design and construction documents used by the Design/Build Contractor and its consultants and subcontractors, and all documents produced for review by the Procuring Entity, except for changes generated solely by Procuring Entity.

5.7.6.5 If any of the plans, specifications and other design and construction documents or other work materials produced or used by Design/Build Contractor pursuant to this Agreement are damaged or destroyed by fire or other casualty, Design/Build Contractor shall prepare and provide Procuring Entity with new copies of any such documents or materials, at no additional cost to Procuring Entity, unless Design/Build Contractor or Procuring Entity has a complete and undamaged set thereof.

#### **5.7.7 Additional Design Services**

5.7.7.1 Additional Design Services shall be provided by the Design/Build Contractor and paid for in accordance with this Agreement by the Procuring Entity if authorized in writing in the form of a Variation or Change Order by the Procuring Entity. Prior to commencing any Additional Design Service, Design/Build Contractor shall submit to the Procuring Entity an Additional Services Proposal in a form acceptable to the Procuring Entity. The Additional Services Proposal shall describe in detail the nature or scope of the Additional Design Services, the basis upon which Design/Build Contractor believes that such services are Additional Services, the maximum amount of fees and reimbursable expenses for performance of the Additional Services, and a proposed schedule for the performance of the Additional Services. Design/Build Contractor shall proceed with the Additional Design Service only after written acceptance by Procuring Entity of the Additional Services Proposal in the form of a Variation or Change Order.

5.7.7.2 Upon acceptance by Procuring Entity, each Additional Services Proposal and the services performed by Design/Build Contractor pursuant to such Additional Services Proposal shall become part of this Agreement and shall be subject to all the terms and conditions of this Agreement, as fully and completely as though the same had been included in this Agreement as a Basic Service at the original execution of this Agreement

5.7.7.3 The following services, if requested by the Procuring Entity, are Additional Design Services:

- a. Providing financial feasibility or other special studies other than as they relate to energy conservation and guaranteed savings, and the cost of the Project.
- b. Providing planning surveys, site evaluations, environmental studies or comparative studies of prospective sites.

- c. Providing services relative to future facilities, systems and equipment which are not intended to be constructed during the Construction Phase.
- d. Providing services to make detailed investigation of existing conditions or facilities or to make measured drawings thereof, other than to verify the accuracy of drawings or other information furnished by the Procuring Entity.
- e. Providing coordination of Work performed by Procuring Entity's separate Contractors or by the Procuring Entity's own forces.
- f. Providing services in connection with the Work of separate consultants retained by the Procuring Entity.
- g. Making revisions in Drawings, Specifications or other documents when such revisions are inconsistent with written approvals or instructions previously given by the Procuring Entity or due to Changes approved by the Procuring Entity and not due to errors or omissions by the Project Architect.
- h. Making revisions in Drawings, Specifications or other documents when such revisions are required by the enactment or revision of codes, laws or regulations subsequent to the preparation of such documents.
- i. Making investigations, surveys, valuations, inventories or detailed appraisals of existing facilities, except as necessary and appropriate for the performance of the Design Phase Services required in connection with construction performed by the Procuring Entity.
- j. Providing consultation concerning replacement of any Work damaged by fire or other cause during construction, and furnishing services as may be required in connection with the replacement of such Work provided that the damage was not caused wholly or in part by the Design/Build Contractor or a Subcontractor.
- k. Providing services after final payment or expiration of the Warranty, whichever is later, except as otherwise required by the Contract.
- l. Preparing to serve or serving as an expert witness at the request of the Procuring Entity in connection with any public hearing, arbitration proceeding or legal proceeding.
- m. Providing any other services not otherwise customarily furnished in accordance with generally accepted architectural or engineering practice.
- n. Providing a Commissioning Consultant to provide commissioning expertise through the Program, Schematic Design, Design Development, Construction Document and Construction Services Phases of the Project. The Commissioning Consultant shall review input related Project objectives, methods and concepts of commissioning.

## **ARTICLE 6 CONSTRUCTION PHASE SERVICES**

6.1 The Construction Phase shall be deemed to commence upon the date specified in a Notice to Proceed issued by Procuring Entity and shall continue until Final Completion of all Work prescribed herein. Both the Pre-Construction Phase Services and the Construction Phase Services shall be included within the contract period specified on the relevant clauses of the contract.

The Design/Build Contractor shall perform the following Construction Phase Services.

## **6.2 GENERAL RESPONSIBILITIES**

- 6.2.1 Construct the Work in strict accordance with the Construction Documents and as required by the Procuring Entity's Specifications within the time required by the Project Schedule approved by Procuring Entity.
- 6.2.2 Organize and maintain a competent, full-time staff at the Project site with clearly defined lines of authority and communication as necessary to coordinate construction activities, monitor and direct progress of the Work, and further the goals of the Procuring Entity.
- 6.2.3 Designate in writing a representative who is responsible for the day-to-day management of the Construction Phase Services. The designated representative shall be the Procuring Entity's primary contact during the Construction Phase and shall be available as required for the benefit of the Project and the Procuring Entity. The designated representative shall be authorized to act on behalf of and bind the Design/Build Contractor in all matters related to Construction Phase Services including, but not limited to, execution of Change Orders and Applications for Payment.
- 6.2.4 Attend Procuring Entity's regularly scheduled Project progress meetings and fully advise the PPDM Engineers of the Project status including schedule, costs, quality and changes.
- 6.2.5 In addition to attending Procuring Entity's regularly scheduled Project progress meetings, Design/Build Contractor shall schedule, direct and attend interim progress meetings with other members of the PPDM Engineers as required to maintain Project progress. Design/Build Contractor shall record and distribute the minutes of each meeting to each PPDM Engineers member. The minutes shall identify critical activities that require action and the dates by which each activity must be completed.
- 6.2.6 In accordance with the current and latest governmental laws, orders, instructions and policies, provide and pay for all labor, materials, equipment, tools, construction equipment and machinery, transportation, and all other facilities and services necessary for the proper execution and completion of the Work in strict accordance with the requirements of the Construction Documents.
- 6.2.7 Obtain building permits and special permits for permanent improvements as required by law or the Construction Documents. Assist Procuring Entity or Design/Build Contractor in obtaining all approvals required from authorities having jurisdiction over the Project.
- 6.2.8 Coordinate, monitor and inspect the work of Subcontractors to ensure conformance with the Construction Documents.

- 6.2.9 Be responsible for all construction means, methods, techniques, sequences and procedures, and for coordinating all portions of the Work. The Design/Build Contractor shall keep the Procuring Entity informed of the progress and quality of the Work.
- 6.2.10 Design/Build Contractor shall promptly correct any defective Work at Design/Build Contractor's sole expense, unless the Procuring Entity specifically agrees to accept the Work.
- 6.2.11 Warrant that the materials and equipment provided for the Project will be of good quality and new unless otherwise required or permitted by the Construction Documents; that the construction will be free from faults and defects; and that the construction will conform with the requirements of the Construction Documents. The Design/Build Contractor shall be responsible for correcting Work that does not comply with the Construction Documents at its sole expense without cost to the Procuring Entity.
- 6.2.12 The Design/Build Contractor shall maintain and deliver the required documents that describe changes or deviations from the Construction Documents that occurred during construction and that reflect the actual "As Built" conditions of the completed Work.

### **6.3 CONSTRUCTION CONTRACT ADMINISTRATION**

- 6.3.1 The Design/Build Contractor, through the Project Architect, shall furnish the following Contract Administration Services during the Construction Phase. Fees for these services are included in the Design/Build Contractor's Construction Phase Fee.
- 6.3.2 The Project Architect, and his related consultants, shall inspect the Project site at least once a month or as and when required appropriate to the type and stage of construction progress to observe the progress and quality of the Work and to determine in general if the Work is proceeding in accordance with the Contract Documents. On the basis of such onsite observations, the Design/Build Contractor shall observe the progress and quality of the Work, and shall endeavor to guard the Procuring Entity against defects and deficiencies in the Work.
- 6.3.3 In addition to site visits for general inspection and observation, the Design/Build Contractor shall visit the site for specific purposes related to certification of progress payments, start-up or mock-up reviews for significant work activities and for formal inspections of the Work. The Design/Build Contractor shall provide written reports of all site visits to the Procuring Entity within three business days.
- 6.3.4 The Design/Build Contractor shall establish and maintain a numbering and tracking system for all project records, including changes, requests for information, submittals, and supplementary instructions shall provide updated records at each Procuring Entity's meeting and when requested.
- 6.3.5 The Design/Build Contractor shall administer all regular progress and special meetings scheduled by the Procuring Entity. The Design/Build Contractor shall attend regularly scheduled planning meetings.
- 6.3.6 The PPDM Engineers certification of Design/Build Contractor's Estimate for Partial Payment for Construction Phase Services shall constitute a representation by the Design/Build Contractor to the Procuring Entity, based on the PPDM Engineers observations at the site as provided in this Agreement and on the data comprising the

Design/Build Contractor's Estimate for Partial Payment that the Work has progressed to the point indicated; that information and belief, the quality of the work is in accordance with the Contract Documents. However, the certification of a Design/Build Contractor's Estimate for Partial Payment shall not be a representation that the Design/Build Contractor has made any examination to ascertain how and for what purpose the Design/Build Contractor has used the moneys paid on account of the Contract Sum.

- 6.3.7 The Design/Build Contractor, with the approval of the Procuring Entity, shall interpret the technical requirements of the Contract Documents. The Design/Build Contractor shall render interpretations necessary for the proper execution or progress of the Work with reasonable promptness on written request of the Procuring Entity, and shall render written recommendations to the Procuring Entity within a reasonable time on matters relating to the execution or progress of the Work or the interpretation of the Contract Documents.
- 6.3.8 The Design/Build Contractor shall provide consultation for the purpose of clarification and interpretation of the intent and scope of the Construction Documents. PPDM Engineers interpretations and recommendations shall be consistent with the intent of and reasonably inferable from the Contract Documents. PPDM Engineers interpretations shall be made in written and/or graphic form including, if necessary or appropriate, supplemental documents to amplify or clarify portions of the Construction Documents.
- 6.3.9 The Procuring Entity through the PPDM Engineers shall review and approve or take other appropriate action upon the Design/Build Contractor's submittals such as Shop Drawings, Product Data and Samples, but only for conformance with the design concept of the Work set forth in the Contract Documents, and shall respond to Design/Build Contractor's inquiries and questions and provide such supplemental information as appropriate. One copy of each submittal, shop drawing, product data, etc., shall be provided to the Procuring Entity.
- 6.3.10 The Design/Build Contractor shall provide the necessary assistance to the Procuring Entity through the PPDM Engineers in the review of the Design/Build Contractor's requests for change orders and pricing thereof.
- 6.3.11 The Design/Build Contractor shall prepare and submit request for Change Orders for the Procuring Entity's approval and execution in accordance with the Contract Documents, and shall, with Procuring Entity's approval, have authority to order minor changes in the Work not involving an adjustment in the Contract Sum or an extension of the Contract Time, which are not inconsistent with the intent of the Contract Documents. In conjunction with each Change, the Design/Build Contractor shall review the cost and time estimate and recommend to the Procuring Entity whether the proposal is appropriate. The Design/Build Contractor shall prepare revised Contract Drawings, where appropriate, to illustrate and document the work required by the Change without additional cost to the Procuring Entity.
- 6.3.12 All proposed changes to drawings, plans and specifications, regardless of how initiated, shall be fully described in the document depicting them as to scope of work added, removed, or changed. The original copies of the Construction Documents may be revised to show such changes, provided that all such revisions shall be separately recorded on media acceptable to Procuring Entity, including, without limitation,

CADD. Such revisions shall be clearly indicated and a current revision date shall be included on the reproducible copy. Changes to the specifications shall be made by consecutively numbered and dated revision addenda. All changes to design documents or specifications will be identified by date of change, revision number and other customary identification references. Areas changed on drawings will be “clouded” to show each change. Clouds designating previous changes will be removed so that only the most recent changes will be clouded.

- 6.3.13 The Design/Build Contractor shall participate in concealed space inspections, systems start-up inspections, Substantial Completion and Pre-Final Inspections to determine the Dates of Substantial Completion, and Final Acceptance. The Design/Build Contractor shall also participate in the Procuring Entity’s final walk thru inspection one year after Final Completion.
- 6.3.14 The Design/Build Contractor shall review, for conformance with the Contract Documents, Design/Build Contractor’s submission of guarantees and warranties.
- 6.3.15 The Design/Build Contractor shall assist the PPDM Engineers in checking as-built drawings during the course of the Work in association with certifying progress payments and shall review final as-built documents for completeness and compliance with Contract requirements.
- 6.3.16 The Design /Build Contractor shall provide “as-built” record drawings as described in the Procuring Entity’s Project Closeout.
- 6.3.17 The Design/Build Contractor shall execute the items included on the construction punch list until all such items have been resolved to the Procuring Entity’s satisfaction.
- 6.3.18 The Design/Build Contractor shall review Design/Build Contractor’s submission of operating and maintenance instructions, and all manuals, brochures, drawings, and other close-out documentation furnished by the Design/Build Contractor for conformance with the requirements of the construction documents.

## **ARTICLE 7                   PROCURING ENTITY’S RESPONSIBILITIES**

7.1 The PPDM Engineers shall be the authorized representative to act in the Procuring Entity’s behalf with respect to the Project. The Procuring Entity’s Designated Representative shall examine the documents submitted by the Design/Build Contractor and shall render recommendations pertaining thereto.

7.2 The Procuring Entity shall examine the design documents submitted by the Design/Build Contractor and provide comments concerning corrections or amendments to such documents in writing to the Design/Build Contractor. The Procuring Entity may obtain independent review of the design documents by its own PPDM Engineers. The Procuring Entity may require the Design/Build Contractor to halt production during design review.

7.3 Procuring Entity shall have the right to reject any defective Work on the Project. Should Design/Build Contractor refuse or neglect to correct any such Work within a reasonable time after notice, Procuring Entity may have the Work corrected and recover all expenses incurred from Design/Build Contractor on demand.

## **ARTICLE 8 OWNERSHIP AND USE OF DOCUMENTS**

8.1 Drawings, specifications and other documents furnished by the Design/Build Contractor are instruments of service and shall remain their property whether the Project for which they are made is executed or not. The Procuring Entity shall be permitted to retain copies, including reproducible copies and CADD copies, of the drawings, specifications and other documents for information and reference in connection with the Procuring Entity's use and occupancy of the Project. Design/Build Contractor hereby grant Procuring Entity an irrevocable, fully paid-up, perpetual license and right to use the drawings, specifications and other documents furnished, including the originals thereof, and the ideas and designs contained therein, for any purpose regardless of whether their services for the Project are completed, modified or terminated. This license shall survive the termination of this Agreement. If this Agreement is terminated, Design/Build Contractor hereby expressly consent to the employment by Procuring Entity of a substitute architect to complete the Design Services under this Agreement, with the substitute architect having all of the rights and privileges of the original Project Architect.

8.2 Submission or distribution to meet official regulatory requirements or for other purposes in connection with the Project is not to be construed as publication in derogation of the Design/Build Contractor's or Project Architect's rights.

## **ARTICLE 9 TIME**

9.1 Unless otherwise approved, the Procuring Entity and the Design/Build Contractor shall perform their respective obligations under the Contract as expeditiously as is consistent with reasonable skill and care and the orderly progress of the Work.

9.2 Time limits stated in the Contract Documents are of the essence of this Agreement. The Design/Build Contractor shall be responsible for schedule development, updating and reporting throughout the entire Project, including Pre-Construction Phase Services and Construction Phase Services. The Design/Build Contractor shall comply in all regards with requirements set forth in the Procuring Entity's Project Planning and Scheduling Specifications.



## Project Management Unit

**Project Title :** CONSTRUCTION OF ACADEMIC BUILDING (BUSINESS EDUCATION COMPLEX PHASE I-FORTUNE TOWNE CAMPUS)

**Location :** CHMSU- Fortune Towne Campus

| FINISHING SCHEDULE |                                    |                                                           |                                                                                                    |                                                                                                |                                                     |                                          |
|--------------------|------------------------------------|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------------------------------------------|------------------------------------------|
| GROUND FLOOR       |                                    |                                                           |                                                                                                    |                                                                                                |                                                     |                                          |
| SPACE / ROOM       |                                    | FLOOR FINISHING                                           | WALL FINISHING                                                                                     | CEILING FINISHING                                                                              | DOORS                                               | WINDOWS                                  |
| 1                  | Access Ramp from IT Building       | Rough Cement Finish with grooves and trench drain between | Schedule 20, 304 Stainless steel Railings and Handrails                                            |                                                                                                |                                                     |                                          |
| 2                  | Hallways                           | Polished Cement with tiles border design                  | Schedule 20, 304 Stainless steel Railings and Handrails                                            | Concrete Slab                                                                                  |                                                     |                                          |
| 3                  | Multi-Purpose Open and Common Area | Polished Cement with tiles border design                  | Schedule 20, 304 Stainless steel Railings and Handrails                                            | Concrete Slab                                                                                  |                                                     |                                          |
| 4                  | Staircase                          | Polished Cement with aluminum nosing                      | Schedule 20, 304 Stainless steel Railings and Handrails                                            |                                                                                                |                                                     |                                          |
| 5                  | Storage under the Staircase        | Polished Cement                                           | Smooth Plastered Cement Wall in Painted Finish                                                     | Painted Ceiling                                                                                | Hollow Core Door in stain and varnish finish, Swing |                                          |
| 6                  | Sink Area                          | Polished Cement                                           | Smooth Plastered Cement Wall in Painted Finish                                                     |                                                                                                |                                                     |                                          |
| 7                  | Male Toilet                        | Unglazed Ceramic Tiles                                    | Glossy Ceramic Tiles                                                                               | Exposed Soffit ceiling, painted in matte black (pipes, raceways and etc)                       | Solid Compact Phenolic Board for Toilet Partitions  | Dark Gray Glass, Jalouplas Window        |
| 8                  | PWD & All Gender Toilet            | Unglazed Ceramic Tiles                                    | Glossy Ceramic Tiles with Grab Handles                                                             | Exposed Soffit ceiling, painted in matte black (pipes, raceways and etc)                       | 1.00 Metal Door with stainless steel kickplate      | Dark Gray Glass, Jalouplas Window        |
| 9                  | Female Toilet                      | Unglazed Vitrified Ceramic Floor Tiles                    | Glossy Ceramic Tiles                                                                               | Exposed Soffit ceiling, painted in matte black (pipes, raceways and etc)                       | Solid Compact Phenolic Board for Toilet Partitions  | Dark Gray Glass, Jalouplas Window        |
| 10                 | Electrical Room                    | Polished Cement                                           | Smooth Plastered Cement Wall in Painted Finish                                                     | Concrete Slab                                                                                  | Metal Louvered Door                                 | Dark Gray Glass, Jalouplas Window        |
| 11                 | Continuous Access Ramp             | Smooth Matte Cement with grooves every 10cm               | Concrete Baluster Railings with stainless steel handrail. 2" x 6" Analok Aluminum Vertical Louvers | Concrete Slab, with surface mounted lights (under ramp) and Fiber Cement Board for third floor |                                                     | 2" x 6" Analok Aluminum Vertical Louvers |



## Project Management Unit

### SECOND FLOOR

| SPACE / ROOM |                        | FLOOR FINISHING                                         | WALL FINISHING                                                                                     | CEILING FINISHING                                                                              | DOORS                                                                          | WINDOWS                                  |
|--------------|------------------------|---------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------|
| 1            | Hallways               | Polished Cement with 1/4" thick stainless-steel inserts | Schedule 20, 304 Stainless steel Railings and Handrails                                            | Concrete Slab                                                                                  |                                                                                |                                          |
| 2            | Staircase              | Polished Cement with aluminum nosing                    | Schedule 20, 304 Stainless steel Railings and Handrails                                            |                                                                                                |                                                                                |                                          |
| 3            | Male Toilet            | Unglazed Ceramic Tiles                                  | Glossy Ceramic Tiles                                                                               | Exposed Soffit ceiling, painted in matte black (pipes, raceways and etc)                       | Solid Compact Phenolic Board for Toilet Partitions                             | Dark Gray Glass, Jalouplas Window        |
| 4            | PWD Toilet             | Unglazed Ceramic Tiles                                  | Glossy Ceramic Tiles with Grab Handles                                                             | Exposed Soffit ceiling, painted in matte black (pipes, raceways and etc)                       | 1.00 Metal Door with stainless steel kickplate                                 | Dark Gray Glass, Jalouplas Window        |
| 5            | Female Toilet          | Unglazed Vitrified Ceramic Floor Tiles                  | Glossy Ceramic Tiles                                                                               | Exposed Soffit ceiling, painted in matte black (pipes, raceways and etc)                       | Solid Compact Phenolic Board for Toilet Partitions                             | Dark Gray Glass, Jalouplas Window        |
| 6            | Electrical Room        | Polished Cement                                         | Smooth Plastered Cement Wall in Painted Finish                                                     | Concrete Slab                                                                                  | Metal Louvered Door                                                            | Dark Gray Glass, Jalouplas Window        |
| 7            | Continuous Access Ramp | Smooth Matte Cement with grooves every 10cm             | Concrete Baluster Railings with stainless steel handrail. 2" x 6" Analok Aluminum Vertical Louvers | Concrete Slab, with surface mounted lights (under ramp) and Fiber Cement Board for third floor |                                                                                | 2" x 6" Analok Aluminum Vertical Louvers |
| 8            | Lecture Rooms          | Epoxy Flooring                                          | Smooth Plastered Cement Wall in Painted Finish with baseboard                                      | Concrete Slab                                                                                  | Solid Wood Panel Door with Side Glass Vision Panel in Stain and Varnish Finish | Dark Gray Glass, Jalouplas Window        |

### THIRD FLOOR

| SPACE / ROOM |             | FLOOR FINISHING                                         | WALL FINISHING                                          | CEILING FINISHING                  | DOORS                        | WINDOWS          |
|--------------|-------------|---------------------------------------------------------|---------------------------------------------------------|------------------------------------|------------------------------|------------------|
| 1            | Hallways    | Polished Cement with 1/4" thick stainless-steel inserts | Schedule 20, 304 Stainless steel Railings and Handrails | Concrete Slab                      |                              |                  |
| 2            | Staircase   | Polished Cement with aluminum nosing                    | Schedule 20, 304 Stainless steel Railings and Handrails |                                    |                              |                  |
| 3            | Male Toilet | Unglazed Ceramic Tiles                                  | Glossy Ceramic Tiles                                    | Exposed Soffit ceiling, painted in | Solid Compact Phenolic Board | Dark Gray Glass, |



## Project Management Unit

|   |                        |                                             |                                                                                                    |                                                                                                |                                                                                |                                          |
|---|------------------------|---------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------|
|   |                        |                                             |                                                                                                    | matte black (pipes, raceways and etc)                                                          | for Toilet Partitions                                                          | Jalouplas Window                         |
| 4 | PWD Toilet             | Unglazed Ceramic Tiles                      | Glossy Ceramic Tiles with Grab Handles                                                             | Exposed Soffit ceiling, painted in matte black (pipes, raceways and etc)                       | 1.00 Metal Door with stainless steel kickplate                                 | Dark Gray Glass, Jalouplas Window        |
| 5 | Female Toilet          | Unglazed Vitrified Ceramic Floor Tiles      | Glossy Ceramic Tiles                                                                               | Exposed Soffit ceiling, painted in matte black (pipes, raceways and etc)                       | Solid Compact Phenolic Board for Toilet Partitions                             | Dark Gray Glass, Jalouplas Window        |
| 6 | Electrical Room        | Polished Cement                             | Smooth Plastered Cement Wall in Painted Finish                                                     | Concrete Slab                                                                                  | Metal Louvered Door                                                            | Dark Gray Glass, Jalouplas Window        |
| 7 | Continuous Access Ramp | Smooth Matte Cement with grooves every 10cm | Concrete Baluster Railings with stainless steel handrail. 2" x 6" Analok Aluminum Vertical Louvers | Concrete Slab, with surface mounted lights (under ramp) and Fiber Cement Board for third floor |                                                                                | 2" x 6" Analok Aluminum Vertical Louvers |
| 8 | Lecture Rooms          | Epoxy Flooring                              | Smooth Plastered Cement Wall in Painted Finish with baseboard                                      | Fiber Cement Board on Ceiling Joist, in painted finish                                         | Solid Wood Panel Door with Side Glass Vision Panel in Stain and Varnish Finish | Dark Gray Glass, Jalouplas Window        |

### IMPORTANT NOTE:

*All materials, finishes, colors, textures, fixtures and other item indicated in the Finishing Schedule shall be subject to prior review and approval by the Project Management Unit (PMU) before procurement, delivery and installation.*

*The contractor or supplier shall submit material samples, product data, color samples and other relevant technical information for review and approval prior to the implementation.*

Prepared By:

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PMU-Project Development Officer II

Endorsed By:

**ENGR. GANIM. GAYONDATO JR.**  
PMU-Administrative Officer III  
Fortune Towne Campus

Checked By:

**ENGR. DESIRE O. CHAVEZ**  
PMU-Project Development Officer III

Approved By:

**ENGR. JUN-JUN J. MARQUEZ**  
PMU – Director

CONSTRUCTION OF ACADEMIC BUILDING  
(BUSINESS EDUCATION COMPLEX PHASE I-FORTUNE TOWNE CAMPUS)

| ITEM  | DESCRIPTION                                                             | PROJECT CONSTRUCTION COST |
|-------|-------------------------------------------------------------------------|---------------------------|
| A.    | DESIGN AND PLANS WITH SIGN AND SEAL                                     |                           |
| A.1.  | ARCHITECTURAL WORKS                                                     |                           |
| A.2.  | CIVIL/STRUCTURAL WORKS                                                  |                           |
| A.3.  | PLUMBING AND SANITARY WORKS                                             |                           |
| A.4.  | ELECTRICAL WORKS                                                        |                           |
| A.5.  | MECHANICAL WORKS AND FIRE PROTECTION SYSTEM                             |                           |
| A.6.  | FIRE DETECTION AND ALARM SYSTEM                                         |                           |
| A.7   | ELECTRONICS AND NETWORK COMMUNICATION                                   |                           |
| A.8   | Sub. Total (DESIGN AND PLANS)                                           |                           |
| B.    | CONSTRUCTION                                                            |                           |
| B.1.  | GENERAL REQUIREMENTS                                                    |                           |
| B.2.  | STRUCTURAL WORKS                                                        |                           |
| B.2.1 | EARTHWORKS                                                              |                           |
| B.2.2 | FORMWORKS & SCAFFOLDING                                                 |                           |
| B.2.3 | REBAR WORKS                                                             |                           |
| B.2.4 | CONCRETING WORKS                                                        |                           |
| B.3.  | MASONRY WORKS                                                           |                           |
| B.4.  | ROOFING WORKS                                                           |                           |
| B.5.  | ARCHITECTURAL WORKS                                                     |                           |
| B.5.1 | CEILING WORKS                                                           |                           |
| B.5.2 | DOORS, WINDOWS & GLASS WORKS                                            |                           |
| B.5.3 | PAINTING WORKS                                                          |                           |
| B.5.4 | TILING WORKS & FLOOR FINISHES                                           |                           |
| B.5.5 | CONCRETE STAIRS, RAMPS AND RAILINGS. INCLUDING STAINLESS STEEL RAILINGS |                           |
| B.5.6 | FACADE AND CLADDINGS                                                    |                           |
| B.5.7 | SUPPLY & INSTALLATION OF TEMPERED GLASS CLASSROOM BOARD                 |                           |
| B.6.  | PLUMBING WORKS                                                          |                           |
| B.7.  | ELECTRICAL WORKS                                                        |                           |
| B.8.  | MECHANICAL WORKS                                                        |                           |
| B.9.  | ELECTRONICS AND NETWORK COMMUNICATIONS                                  |                           |
| B.10. | LANDSCAPING, PLANT BOX AND PAVERS                                       |                           |
| B.11. | MISCELLANEOUS WORKS                                                     |                           |
| B.12. | Sub. Total (CONSTRUCTION)                                               |                           |

SUMMARY OF BIDS

| ITEM | DESCRIPTION                    | PROJECT CONSTRUCTION COST |
|------|--------------------------------|---------------------------|
| C.   | TOTAL DIRECT COST (A.8 + B.12) |                           |
| D.   | CONSUMABLES                    |                           |
| E.   | SUPERVISION AND ADMINISTRATION |                           |
| F.   | TOTAL INDIRECT COST (D+E)      |                           |
| G.   | TOTAL COST (C+F)               |                           |
| H.   | VAT (12% OF ITEM G)            |                           |
| I.   | GRAND TOTAL PROJECT COST (G+H) |                           |

NOTE:

We understand that the total preparation of the design and plans including the signatures and seal for all disciplines for the application of the building and occupancy permits shall not exceed 3% of the total direct cost (Item C Above).

Signature of Bidder \_\_\_\_\_

Name of Firm \_\_\_\_\_

Date \_\_\_\_\_