PHILIPPINE BIDDING DOCUMENTS

Upgrading of Electrical System at URS Cardona Campus and Completion of URS Binangonan Canteen

URS-24-40-052/URS-24-41-052

Government of the Republic of the Philippines

UNIVERSITY OF RIZAL SYSTEM

Sixth Edition
July 2020

Preface

These Philippine Bidding Documents (PBDs) for the procurement of Infrastructure Projects (hereinafter referred to also as the "Works") through Competitive Bidding have been prepared by the Government of the Philippines for use by all branches, agencies, departments, bureaus, offices, or instrumentalities of the government, including government-owned and/or -controlled corporations, government financial institutions, state universities and colleges, local government units, and autonomous regional government. The procedures and practices presented in this document have been developed through broad experience, and are for mandatory use in projects that are financed in whole or in part by the Government of the Philippines or any foreign government/foreign or international financing institution in accordance with the provisions of the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.

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

The Bidding Documents shall clearly and adequately define, among others: (i) the objectives, scope, and expected outputs and/or results of the proposed contract; (ii) the eligibility requirements of Bidders; (iii) the expected contract duration; and (iv)the obligations, duties, and/or functions of the winning Bidder.

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

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

a. All the documents listed in the Table of Contents are normally required for the procurement of Infrastructure Projects. However, they should be adapted as necessary to the circumstances of the particular Project.

b. Specific details, such as the "*name of the Procuring Entity*" and "*address for bid submission*," should be furnished in the Instructions to Bidders, Bid Data Sheet, and Special Conditions of Contract. The final documents should contain neither blank spaces nor options.

c. This Preface and the footnotes or notes in italics included in the Invitation to Bid, BDS, General Conditions of Contract, Special Conditions of Contract, Specifications, Drawings, and Bill of Quantities are not part of the text of the final document, although they contain instructions that the Procuring Entity should strictly follow.

d. The cover should be modified as required to identify the Bidding Documents as to the names of the Project, Contract, and Procuring Entity, in addition to date of issue.

e. Modifications for specific Procurement Project details should be provided in the Special Conditions of Contract as amendments to the Conditions of Contract. For easy completion, whenever reference has to be made to specific clauses in the Bid Data Sheet or Special Conditions of Contract, these terms shall be printed in bold typeface on Sections I (Instructions to Bidders) and III (General Conditions of Contract), respectively.

f. For guidelines on the use of Bidding Forms and the procurement of Foreign-Assisted Projects, these will be covered by a separate issuance of the Government Procurement Policy Board.

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Glossary of Terms, Abbreviations, and Acronyms

ABC – Approved Budget for the Contract.

ARCC – Allowable Range of Contract Cost.

BAC – Bids and Awards Committee.

Bid – A signed offer or proposal to undertake a contract submitted by a bidder in response to and in consonance with the requirements of the bidding documents. Also referred to as *Proposal* and *Tender.* (2016 revised IRR, Section 5[c])

Bidder – Refers to a contractor, manufacturer, supplier, distributor and/or consultant who submits a bid in response to the requirements of the Bidding Documents. (2016 revised IRR, Section 5[d])

Bidding Documents – The documents issued by the Procuring Entity as the bases for bids, furnishing all information necessary for a prospective bidder to prepare a bid for the Goods, Infrastructure Projects, and/or Consulting Services required by the Procuring Entity. (2016 revised IRR, Section 5[e])

BIR – Bureau of Internal Revenue.

BSP – Bangko Sentral ng Pilipinas.

CDA – Cooperative Development Authority.

Consulting Services – Refer to services for Infrastructure Projects and other types of projects or activities of the GOP requiring adequate external technical and professional expertise that are beyond the capability and/or capacity of the GOP to undertake such as, but not limited to: (i) advisory and review services; (ii) pre-investment or feasibility studies; (iii) design; (iv) construction supervision; (v) management and related services; and (vi) other technical services or special studies. (2016 revised IRR, Section 5[i])

Contract – Refers to the agreement entered into between the Procuring Entity and the Supplier or Manufacturer or Distributor or Service Provider for procurement of Goods and Services; Contractor for Procurement of Infrastructure Projects; or Consultant or Consulting Firm for Procurement of Consulting Services; as the case may be, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.

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

CPI – Consumer Price Index.

DOLE – Department of Labor and Employment.

DTI – Department of Trade and Industry.

Foreign-funded Procurement or Foreign-Assisted Project – Refers to procurement whose funding source is from a foreign government, foreign or international financing institution as specified in the Treaty or International or Executive Agreement. (2016 revised IRR, Section 5[b]).

GFI – Government Financial Institution.

GOCC – Government-owned and/or –controlled corporation.

Goods – Refer to all items, supplies, materials and general support services, except Consulting Services and Infrastructure Projects, which may be needed in the transaction of public businesses or in the pursuit of any government undertaking, project or activity, whether in the nature of equipment, furniture, stationery, materials for construction, or personal property of any kind, including non-personal or contractual services such as the repair and maintenance of equipment and furniture, as well as trucking, hauling, janitorial, security, and related or analogous services, as well as procurement of materials and supplies provided by the Procuring Entity for such services. The term "related" or "analogous services" shall include, but is not limited to, lease or purchase of office space, media advertisements, health maintenance services, and other services essential to the operation of the Procuring Entity. (2016 revised IRR, Section 5[r])

GOP – Government of the Philippines.

Infrastructure Projects – Include the construction, improvement, rehabilitation, demolition, repair, restoration or maintenance of roads and bridges, railways, airports, seaports, communication facilities, civil works components of information technology projects, irrigation, flood control and drainage, water supply, sanitation, sewerage and solid waste management systems, shore protection, energy/power and electrification facilities, national buildings, school buildings, hospital buildings, and other related construction projects of the government. Also referred to as *civil works or works*. (2016 revised IRR, Section 5[u])

LGUs – Local Government Units.

NFCC – Net Financial Contracting Capacity.

NGA – National Government Agency.

PCAB – Philippine Contractors Accreditation Board.

PhilGEPS - Philippine Government Electronic Procurement System.

Procurement Project – refers to a specific or identified procurement covering goods, infrastructure project or consulting services. A Procurement Project shall be described, detailed, and scheduled in the Project Procurement Management Plan prepared by the agency which shall be consolidated in the procuring entity's Annual Procurement Plan. (GPPB Circular No. 06-2019 dated 17 July 2019)

PSA – Philippine Statistics Authority.

SEC – Securities and Exchange Commission.

SLCC – Single Largest Completed Contract.

UN – United Nations.

Section I. Invitation to Bid

Notes on the Invitation to Bid

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

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

a. The date of availability of the Bidding Documents, which shall be from the time the IB is first advertised/posted until the deadline for the submission and receipt of bids;

b. The place where the Bidding Documents may be acquired or the website where it may be downloaded;

c. The deadline for the submission and receipt of bids; and

d. Any important bid evaluation criteria.

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

Republic of the Philippines
UNIVERSITY OF RIZAL SYSTEM
Tanay, Rizal
Email: bacsecretariat@urs.edu.ph

Invitation to Bid
for the
Upgrading of Electrical System at Cardona Campus and Completion of URS Binangonan Canteen

1. The **University of Rizal System**, through the **Fund 052 of 2024** intends to apply the following sum for each lot being the ABC:

Lot & Identification Number	Project Title	ABC
1- URS-24-40-052	Upgrading of Electrical System at Cardona Campus	₱1,651,501.65
2- URS-24-41-052	Completion of Canteen-Binangonan Campus	988,740.62
TOTAL ABC		**₱2,640,242.27**

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

2. The **University of Rizal System** now invites bids for the above Procurement Project. Completion of the Works is required **Sixty**
3. **Calendar Days for Lot 1 and Lot 2.** 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).

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

5. Interested bidders may obtain further information from **University of Rizal System** and inspect the Bidding Documents at the address given below from 8:00 AM to 5:00 PM.

6. A complete set of Bidding Documents may be acquired by interested bidders on **November 12, 2024** 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 **Two Thousand Pesos (₱2,000.00) for Lot 1, One Thousand Pesos (₱1,000.00) for Lot 2**. The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person.

7. The **University of Rizal System** will hold a Pre-Bid Conference[1] on **November 20, 2024, 12:30 PM at AVEC, URS Morong Campus, J. Sumulong St., Brgy. San Juan, Morong, Rizal**, which shall be open to prospective bidders.

8. Bids must be duly received by the BAC Secretariat through manual submission at the office address as indicated below, on or before **12:00 PM of December 2, 2024**. Late bids shall not be accepted.

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

10. Bid opening shall be on **12:30 PM of December 2, 2024** at **AVEC, URS Morong Campus, J. Sumulong St., Brgy. San Juan, Morong, Rizal.** Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.

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

12. For further information, please refer to:

    Mr. Joel Francisco
    Head, BAC Secretariat
    J. Sumulong St., Morong, Rizal
    bacsecretariat@urs.edu.ph
    09189519618

    You may visit the following websites:

    For downloading of Bidding Documents: *http://www.urs.edu.ph/bid-opportunities/*

November 12, 2024

ARIEL M. PLANTILLA, DBA
Chairperson, Bids and Awards Committee

[1] May be deleted in case the ABC is less than One Million Pesos (PhP1,000,000) where the Procuring Entity may not hold a pre-bid conference.

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, **University of Rizal System** invites Bids for the **Upgrading of Electrical System at Cardona Campus and Completion of URS Binangonan Canteen** with Project Identification Number **URS-24-40-052 and URS-24-41-052.**

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 **052 of 2024** in the amount of **One Million Six Hundred Fifty One Thousand, Five Hundred One Pesos and 65/100 Only (₱1,651,501.65) for Lot 1, Nine Hundred Eighty-Eight Thousand Seven Hundred Forty and 62/100 Only (₱988,740.62) for Lot 2.**

2.1. The source of funding is:

052, Internally Generated Income Type Fund

3. Bidding Requirements

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

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

The Bidder, by the act of submitting its Bid, shall be deemed to have inspected the site, determined the general characteristics of the contracted Works and the conditions for this Project, such as the location and the nature of the work; (b) climatic conditions; (c) transportation facilities; (c) nature and condition of the terrain, geological conditions at the site communication facilities, requirements, location and availability of construction aggregates and other materials, labor, water, electric power and access roads; and (d) other factors that may affect the cost, duration and execution or implementation of the contract, project, or work and examine all instructions, forms, terms, and project requirements in the Bidding Documents.

4. Corrupt, Fraudulent, Collusive, Coercive, and Obstructive Practices

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

5. Eligible Bidders

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

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

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

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

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

6. Origin of Associated Goods

There is no restriction on the origin of Goods other than those prohibited by a decision of the UN Security Council taken under Chapter VII of the Charter of the UN.

7. Subcontracts

7.1. The Bidder may subcontract portions of the Project to the extent allowed by the Procuring Entity as stated herein, but in no case more than fifty percent (50%) of the Project.

The Procuring Entity has prescribed that:

Subcontracting is not allowed.

7.1. *[If Procuring Entity has determined that subcontracting is allowed during the bidding, state:]* The Bidder must submit together with its Bid the documentary requirements of the subcontractor(s) complying with the eligibility criteria stated in **ITB** Clause 5 in accordance with Section 23.4 of the 2016 revised IRR of RA No. 9184 pursuant to Section 23.1 thereof.

7.2. *[If subcontracting is allowed during the contract implementation stage, state:]* The Supplier may identify its subcontractor during the contract implementation stage. Subcontractors identified during the bidding may be changed during the implementation of this Contract. Subcontractors must submit the documentary requirements under Section 23.1 of the 2016 revised IRR of RA No. 9184 and

comply with the eligibility criteria specified in **ITB** Clause 5 to the implementing or end-user unit.

7.3. 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 **AVEC URS Morong Campus, J. Sumulong St., Brgy San Juan, Morong, Rizal** as indicated in paragraph 6 of the **IB.**

9. Clarification and Amendment of Bidding Documents

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

10. Documents Comprising the Bid: Eligibility and Technical Components

10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section IX. Checklist of Technical and Financial Documents**.

10.2. If the eligibility requirements or statements, the bids, and all other documents for submission to the BAC are in foreign language other than English, it must be accompanied by a translation in English, which shall be authenticated by the appropriate Philippine foreign service establishment, post, or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. For Contracting Parties to the Apostille Convention, only the translated documents shall be authenticated through an apostille pursuant to GPPB Resolution No. 13-2019 dated 23 May 2019. The English translation shall govern, for purposes of interpretation of the bid.

10.3. A valid special PCAB License in case of Joint Ventures, and registration for the type and cost of the contract for this Project. Any additional type of Contractor license or permit shall be indicated in the **BDS**.

10.4. A List of Contractor's key personnel (e.g., Project Manager, Project Engineers, Materials Engineers, and Foremen) assigned to the contract to be bid, with their complete qualification and experience data shall be provided. These key personnel must meet the required minimum years of experience set in the **BDS**.

10.5. A List of Contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership, certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be, must meet the minimum requirements for the contract set in the **BDS**.

11. Documents Comprising the Bid: Financial Component

11.1. The second bid envelope shall contain the financial documents for the Bid as specified in **Section IX. Checklist of Technical and Financial Documents**.

11.2. Any bid exceeding the ABC indicated in paragraph 1 of the **IB** shall not be accepted.

11.3. For Foreign-funded procurement, a ceiling may be applied to bid prices provided the conditions are met under Section 31.2 of the 2016 revised IRR of RA No. 9184.

12. Alternative Bids

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

13. Bid Prices

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

14. Bid and Payment Currencies

14.1. Bid prices may be quoted in the local currency or tradeable currency accepted by the BSP at the discretion of the Bidder. However, for purposes of bid evaluation, Bids denominated in foreign currencies shall be converted to Philippine currency based on the exchange rate as published in the BSP reference rate bulletin on the day of the bid opening.

14.2. *Payment of the contract price shall be made in:*

Philippine Pesos.

15. Bid Security

15.1. The Bidder shall submit a Bid Securing Declaration or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the schedule in the **BDS**.

15.2. The Bid and bid security shall be valid until *[indicate date].* Any bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

16. Sealing and Marking of Bids

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

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

If the Procuring Entity allows the submission of bids through online submission to the given website or any other electronic means, the Bidder shall submit an electronic copy of its Bid, which must be digitally signed. An electronic copy that cannot be opened or is corrupted shall be considered non-responsive and, thus, automatically disqualified.

17. Deadline for Submission of Bids

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

18. Opening and Preliminary Examination of Bids

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

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

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

19. Detailed Evaluation and Comparison of Bids

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

19.2. If the Project allows partial bids, all Bids and combinations of Bids as indicated in the **BDS** shall be received by the same deadline and opened and evaluated

simultaneously so as to determine the Bid or combination of Bids offering the lowest calculated cost to the Procuring Entity. Bid Security as required by **ITB** Clause 15 shall be submitted for each contract (lot) separately.

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

20. Post Qualification

Within a non-extendible period of five (5) calendar days from receipt by the Bidder of the notice from the BAC that it submitted the Lowest Calculated Bid, the Bidder shall submit its latest income and business tax returns filed and paid through the BIR Electronic Filing and Payment System (eFPS), and other appropriate licenses and permits required by law and stated in the **BDS**.

21. Signing of the Contract

The documents required in Section 37.2 of the 2016 revised IRR of RA No. 9184 shall form part of the Contract. Additional Contract documents are indicated in the **BDS**.

Section III. Bid Data Sheet

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

<table>
<tr><th>ITB Clause</th><th></th></tr>
<tr><td>5.2</td><td>For this purpose, contracts similar to the Project refer to contracts which have the same major categories of work, which shall be:
Building Construction and Electrical System Works.</td></tr>
<tr><td>7.1</td><td>Subcontracting is not allowed.</td></tr>
<tr><td>10.3</td><td>N/A</td></tr>
<tr><td>10.4</td><td>The key personnel must meet the required minimum years of experience set below:

For Lot 1: Upgrading of Electrical System; Cardona Campus
<table>
<tr><th>Key Personnel</th><th>General Experience/Relevant Experience</th></tr>
<tr><td>Professional Electrical Engineer</td><td>Must be a Licensed Professional Electrical Engineer with at least five (5) years of relevant work experience in the supervision and consultation of Electrical system.</td></tr>
<tr><td>Electrical Engineer</td><td>Must be a Registered Electrical Engineer with at least five (5) years of relevant work experience in the on-site supervision of Electrical system.</td></tr>
<tr><td>Foreman (Electrical)</td><td>Responsible for the utilization of manpower on site for electrical works. Must have at least five (5) years of responsible experience in supervising the construction of buildings and its facilities. NC II Holder of Electrical Installation and Maintenance (EIM).</td></tr>
<tr><td>Project Safety Officer</td><td>Must be a DOLE certified SO2 practitioner. This role may be filled by the assigned project engineer/architect if suitably qualified.</td></tr>
</table>
For Lot 2: Completion of URS Binangonan Canteen
<table>
<tr><th>Key Personnel</th><th>General Experience/Relevant Experience</th></tr>
<tr><td>Project Site Engineer/Architect</td><td>Must be a Registered and Licensed Civil Engineer or Architect with at least five (5) years of relevant experience in the supervision of construction and repair of buildings and its facilities.</td></tr>
<tr><td>Project Safety Officer</td><td>Must be a DOLE certified SO2 practitioner. This role may be filled by the assigned project engineer/architect if suitably qualified.</td></tr>
</table></td></tr>
</table>

<table>
<tr><td></td><td></td></tr>
<tr><td>10.5</td><td>The minimum major equipment requirements are the following:

For Lot 1; Upgrading of Electrical System; Cardona Campus
<table>
<tr><th>Equipment</th><th>Capacity</th><th>Number of Units</th></tr>
<tr><td>Insulation Resistance Tester</td><td>1000 volt</td><td>At least 1 unit</td></tr>
<tr><td>Earth and Grounding tester</td><td></td><td>At least 1 unit</td></tr>
<tr><td>Multi Tester w/ Clamp Meter</td><td>1000 volt</td><td>At least 1 unit</td></tr>
<tr><td>Demolition Hammer</td><td>1500W to 2000W</td><td>At least 1 unit</td></tr>
</table>
For Lot 2: Completion of Canteen; Binangonan Campus
<table>
<tr><th>Equipment</th><th>Capacity</th><th>Number of Units</th></tr>
<tr><td>Hauling Truck</td><td>3.0 cu.m. (minimum)</td><td>At least 1 unit</td></tr>
<tr><td>Demolition Hammer/Chipping Gun</td><td>1000 watts(minimum)</td><td>At least 1 unit</td></tr>
</table></td></tr>
<tr><td>12</td><td>N/A</td></tr>
<tr><td>15.1</td><td>The bid security shall be in the form of a Bid Securing Declaration or any of the following forms and amounts:
a. The amount of not less than ₱33,030.03, if bid security is in cash, cashier’s/manager’s check, bank draft/guarantee or irrevocable letter of credit for Lot 1;

b. The amount of not less than ₱19,774.81, if bid security is in cash, cashier’s/manager’s check, bank draft/guarantee or irrevocable letter of credit for Lot 2; or

c. The amount of not less than ₱82,575.08 if bid security is in Surety Bond for Lot 1; and

d. The amount of not less than ₱ 49,437.03 if bid security is in Surety Bond for Lot 2.</td></tr>
<tr><td>19.2</td><td>Partial bids are allowed, as follows:</td></tr>
</table>

	Lot 1- One Million Six Hundred Fifty One Thousand Five Hundred One Pesos and 65 Only (₱1,651,501.65) for Upgrading of Electrical System at Cardona Campus. **Lot 2 – Nine Hundred Eighty Eight Thousand Seven Hundred Forty Pesos and 62/100 Only (₱988,740.62) for Completion of Binangonan Canteen.**
20	N/A
21	• Construction Schedule with Bar Chart and S-curve • Manpower Schedule • Repair Methodology • Occupational Safety and Health Program

Section IV. General Conditions of Contract

Notes on the General Conditions of Contract

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

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

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

1. Scope of Contract

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

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

2. Sectional Completion of Works

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

3. Possession of Site

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

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

4. The Contractor's Obligations

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

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

5. Performance Security

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

5.2. The Contractor, by entering into the Contract with the Procuring Entity, acknowledges the right of the Procuring Entity to institute action pursuant to RA No. 3688 against any subcontractor be they an individual, firm, partnership, corporation, or association supplying the Contractor with labor, materials and/or equipment for the performance of this Contract.

6. Site Investigation Reports

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

7. Warranty

7.1. In case the Contractor fails to undertake the repair works under Section 62.2.2 of the 2016 revised IRR, the Procuring Entity shall forfeit its performance security, subject its property (ies) to attachment or garnishment proceedings, and perpetually disqualify it from participating in any public bidding. All payables of the GOP in his favor shall be offset to recover the costs.

7.2. The warranty against Structural Defects/Failures, except that occasioned-on force majeure, shall cover the period from the date of issuance of the Certificate of Final Acceptance by the Procuring Entity. Specific duration of the warranty is found in the **SCC**.

8. Liability of the Contractor

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

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

9. Termination for Other Causes

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

10. Dayworks

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

11. Program of Work

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

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

12. Instructions, Inspections and Audits

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

13. Advance Payment

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

14. Progress Payments

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

15. Operating and Maintenance Manuals

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

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

Section V. Special Conditions of Contract

Notes on the Special Conditions of Contract

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

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

a. Information that complements provisions of the GCC must be incorporated.

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

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

Special Conditions of Contract

GCC Clause	
2	*[If different dates are specified for completion of the Works by section, i.e. "sectional completion," these dates should be listed here.]*
4.1	*[Specify the schedule of delivery of the possession of the site to the Contractor, whether full or in part.]*
6	The site investigation reports are: *[list here the required site investigation reports.]*
7.2	*[Select one, delete the other.]* *[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. *[In case of semi-permanent structures, such as buildings of types 1, 2, and 3 as classified under the National Building Code of the Philippines, concrete/asphalt roads, concrete river control, drainage, irrigation lined canals, river landing, deep wells, rock causeway, pedestrian overpass, and other similar semi-permanent structures:]* Five (5) years. *[In case of other structures, such as bailey and wooden bridges, shallow wells, spring developments, and other similar structures:]* Two (2) years.
10	*[Select one, delete the other:]* a. Dayworks are applicable at the rate shown in the Contractor's original Bid. b. No dayworks are applicable to the contract.
11.1	The Contractor shall submit the Program of Work to the Procuring Entity's Representative within *[insert number]* days of delivery of the Notice of Award.
11.2	The amount to be withheld for late submission of an updated Program of Work is [*insert amount*].
13	The amount of the advance payment is *[insert amount as percentage of the contract price that shall not exceed 15% of the total contract price and schedule of payment].*
14	*[If allowed by the Procuring Entity, state:]* Materials and equipment delivered on the site but not completely put in place shall be included for payment.

15.1	The date by which operating and maintenance manuals are required is *[date]*. The date by which "as built" drawings are required is *[date]*.
15.2	The amount to be withheld for failing to produce "as built" drawings and/or operating and maintenance manuals by the date required is *[amount in local currency]*.

Section VI. Specifications

Notes on Specifications

A set of precise and clear specifications is a prerequisite for Bidders to respond realistically and competitively to the requirements of the Procuring Entity without qualifying or conditioning their Bids. In the context of international competitive bidding, the specifications must be drafted to permit the widest possible competition and, at the same time, present a clear statement of the required standards of workmanship, materials, and performance of the goods and services to be procured. Only if this is done will the objectives of economy, efficiency, and fairness in procurement be realized, responsiveness of Bids be ensured, and the subsequent task of bid evaluation facilitated. The specifications should require that all goods and materials to be incorporated in the Works be new, unused, of the most recent or current models, and incorporate all recent improvements in design and materials unless provided otherwise in the Contract.

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

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

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

Sample Clause: Equivalency of Standards and Codes

Wherever reference is made in the Contract to specific standards and codes to be met by the goods and materials to be furnished, and work performed or tested, the provisions of the latest current edition or revision of the relevant standards and codes in effect shall apply, unless otherwise expressly stated in the Contract. Where such standards and codes are

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

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

MINIMUM PERFORMANCE STANDARDS AND SPECIFICATIONS for the

UPGRADING OF ELECTRICAL SYSTEM (LOT 1)

URS CARDONA CAMPUS

I. PROJECT BACKGROUND:

This project aims to upgrade the electrical system at the University of Rizal System (URS) Cardona campus from a single-phase to a three-phase system to support the growing needs of the Fishery Processing and Training Center (FPTC), improve the energy efficiency of the existing campus buildings, and provide adequate power supply for proposed new buildings. The upgraded system will enhance the operation of the Fishery Processing Building, support the university's income-generating program (IGP), and ensure that all campus facilities, present and future, operate with reliable and efficient power.

II. PROJECT REQUIREMENT

For the electrical system upgrade project, the bidder must be an established electrical contractor with proven experience in similar electrical contracting projects. The contractor should have demonstrated expertise in the installation, upgrading, and maintenance of electrical systems, meeting local safety and regulatory standards. Bidders must have a track record of successfully completing projects of comparable scale and complexity. They must also possess the necessary licenses and certifications required for electrical works within the jurisdiction. The chosen contractor will be responsible for ensuring that all work complies with Philippine electrical standards and project specifications.

III. PROJECT OBJECTIVE:

- **Upgrade Electrical System from Single-Phase to Three-Phase**

- Convert the existing single-phase electrical system to a three-phase system across the URS Cardona campus to meet growing power demands.

- **Support the Power Needs of the Fishery Processing and Training Center (FPTC)**

- Provide a reliable and efficient power supply to support the operation of heavy-duty equipment in the FPTC, including refrigeration units, fish processing machines, and packaging equipment.

- **Enhance Energy Efficiency of Existing Campus Buildings**

- Improve the overall energy efficiency of current buildings by upgrading electrical wiring, distribution systems, and panels to accommodate the new three-phase system.

- **Provide Adequate Power for Future Campus Expansion**

- Ensure the electrical system can handle the power requirements of proposed new buildings and campus infrastructure, facilitating future growth without overloading the system.

- **Ensure Reliable and Continuous Power Supply**

- Enhance the reliability of the electrical supply to all campus buildings, reducing interruptions, power losses, and downtime, particularly in the Fishery Processing Building and other key facilities.

- **Support the University's Income-Generating Program (IGP)**

- Enable the Fishery Processing and Training Center to operate at full capacity, supporting the university's income-generating activities through consistent and efficient power for fish processing operations.

- **Provide a Safe and Compliant Electrical System**

- Ensure that the upgraded electrical system complies with all safety standards, electrical codes, and regulations, providing a safe environment for students, staff, and faculty.

- **Reduce Operational Energy Costs**

- Achieve long-term cost savings by improving the energy efficiency of the campus-wide electrical system, reducing electricity consumption and operational expenses.

- **Improve Power Quality for Student Training**

- Ensure that students in the Fishery Course Program receive quality hands-on training with industry-standard equipment powered by a stable and reliable electrical supply.

- **Future-Proof Campus Electrical Infrastructure**

- Design and install the three-phase system to accommodate future growth, ensuring that new technologies and additional facilities can be integrated seamlessly without compromising electrical capacity or reliability.

IV. PROJECT SITE:

The upgrading of the electrical system will take place at the University of Rizal System (URS) Cardona Campus, located in Sitio Kuhala, Barangay Dalig, Cardona, Rizal.

V. SPECIFICATIONS AND WORK METHODOLOGIES:

The Contractor is required to perform the following scope of work:

1. Project Billboard/ Sign Board:
    a. *Material*: The billboard/sign board shall be constructed using approved materials that are durable and weather-resistant. All materials must be of high-quality and suitable for outdoor use.
    b. *Dimensions*: The billboard/sign board should have standard dimensions as required by local regulations or as specified by the project owner. Typically, the dimensions might range around 4 feet by 8 feet, or as per project specifications.
    c. *Content*: The content on the billboard/sign board must include the project name, location, owner, contractor, project duration, start and end dates, and any other pertinent information. The text should be clearly legible, using a professional font and color scheme that contrasts with the background for maximum visibility.
    d. *Placement*: The billboard/sign board must be installed in a conspicuous location at the project site, easily visible to the public and project stakeholders. It should be securely mounted and maintained in good condition throughout the entire duration of the project.
    e. *Duration*: The billboard/sign board should remain in place and be well-maintained from the start of the project until its completion and final acceptance by the owner.
2. Mobilization/Demobilization:
    a. *Mobilization*: The general contractor is responsible for the efficient and timely setup of all necessary project facilities, equipment, and temporary utilities required for the execution of the project. This includes but is not limited to site offices, storage areas, worker accommodations (if applicable), safety barriers, and temporary power and water supplies. All setup activities must comply with relevant safety and environmental regulations.
    b. *Demobilization*: Upon completion of the project, the general contractor is responsible for the orderly dismantling and removal of all temporary facilities, equipment, and materials brought onto the site for the project. The contractor must ensure that the site is restored to its original condition or as specified in the contract. This includes the removal of debris, temporary structures, and any hazardous materials. Final site cleanup must be performed to the satisfaction of the project owner.
    c. *Timeline*: Mobilization should be completed before the commencement of construction activities and within the timeline specified in the project schedule. Demobilization should occur immediately following project completion and acceptance, ensuring no

unnecessary delays.

3. Permits and Clearances (if necessary):
    a. *Responsibility*: The general contractor shall be solely responsible for obtaining all necessary permits and clearances required for the execution of the project. This includes, but is not limited to, building permits, environmental clearances, safety certifications, and any other approvals mandated by local and national statutory laws and regulations.
    b. *Compliance*: The contractor must ensure full compliance with all relevant laws, ordinances, and regulations throughout the project duration. This includes adhering to the requirements set forth by local government units, regulatory agencies, and other authorities having jurisdiction over the project.
    c. *Documentation*: Copies of all permits and clearances must be submitted to the project owner before the commencement of any construction activities. The contractor must maintain a complete and up-to-date record of all permits and clearances on-site and make them available for inspection upon request by the project owner or regulatory authorities.
    d. *Timeline*: All required permits and clearances must be secured within the timeline specified in the project schedule to avoid any delays in the start of construction. The contractor must promptly address any issues or delays in obtaining the necessary permits to ensure the project proceeds as planned.
4. Electrical Works
    a. Scope of Work:
        - *Scope of Work*
          The scope of this work includes the supply of materials, excavation works, and installation of service entrance, conduits, wires, and panel boards, breakers, Testing and Commissioning works and as built Plans.
        - Provide 50x50 powder coated telephone terminal cabinet for telecommunication provision.
    b. Materials Specification:
        - *Wires:* All Wires Must be THHN Stranded Wire As per Plan.
        - *Conduits*: Heavy-duty, high-performance PVC pipe Conduits
        - *Panel Board*: Main Panel Boards, Branch Panels, Nema Enclosures shall be Powder Coated or Stainless.
        - *Breakers:* Breakers specifications must be approved or equivalent brand by the Project Management Unit or by the designer. All sizes and ratings must be in accordance with the electrical plan.
        - *Supports:* All supports must be galvanized steel or High quality PVC.
        - *Accessories:* Must be fit to all electrical equipment as per specifications and plans.

    c. Installation Procedure:
        - *Service Entrance*: Installation Procedure shall be as per Manila Electric Company (MERALCO) Requirements and Electrical Plan.
        - *Underground Electrical Conduit Installation*: The underground electrical conduit installation must have a minimum depth of 50 cm and a minimum width of 60

cm for excavation. Any adjustments based on actual site conditions must be coordinated with the project management unit.

- *Fish Processing Equipment Power Convenience Outlet and OCPD (Overcurrent Protection Device) of Motors*: must be installed near by the motors/equipment as per actual location.

d. Warranties

- *Material Warranty*: The contractor shall provide a minimum of a 1-year warranty on all materials supplied, ensuring that they are free from defects in material and workmanship under normal use.

- *Workmanship Warranty*: The contractor shall provide a minimum of a 1-year warranty on the workmanship, covering any defects in installation.

- *Warranty Terms:*
    1. During the warranty period, any defects or failures in the materials or workmanship shall be repaired or replaced by the contractor at no additional cost to the owner.
    2. The warranty shall commence upon the final acceptance of the completed electrical works by the Project Management Unit of URS.
    3. The contractor shall respond to any warranty claims within 7 days of notification and shall complete any necessary repairs within 30 days unless otherwise agreed.

VI. MINIMUM REQUIREMENTS FOR SAFETY AND HEALTH PROGRAM

a. Safety Management System:
   i. Safety Policy: Develop and document a safety policy outlining the organization's commitment to health and safety, particularly considering the presence of faculty, students, and other stakeholder
   ii. Objectives: Define clear safety objectives and goals aligned with organizational priorities and the educational environment.
   iii. Responsibilities: Assign safety responsibilities and designate an Occupational Safety Officer or Project Safety Officer. This individual should have relevant training certified by the Department of Labor and Employment (DOLE) and be the point person for safety protocols. This role may be filled by the assigned project engineer if suitably qualified.

b. Risk Assessment and Management:
   i. Hazard Identification: Conduct regular hazard assessments to identify potential safety risks and health hazards in the workplace.
   ii. Risk Evaluation: Evaluate the risks associated with identified hazards and their potential impact on students, faculty, and other stakeholders.
   iii. Control Measures: Implement appropriate control measures to mitigate or eliminate identified risks, including physical barriers, signage, and restricted access to hazardous areas.

c. Safety Training and Education:
   i. Orientation: Provide safety orientation and training for all new employees and

contractors, emphasizing the unique environment of the educational institution.
    ii. Ongoing Training: Offer regular safety training and refresher courses for all employees on relevant topics, including emergency procedures and hazard recognition, with a focus on interacting safely in an environment with students and faculty (if necessary).
    iii. Specialized Training: Provide additional training for employees exposed to specific hazards or using specialized equipment (if necessary).
d. Personal Protective Equipment (PPE):
    i. Provision: Provide appropriate PPE to employees based on the identified hazards.
    ii. Use and Maintenance: Ensure that employees use PPE correctly and that it is maintained in good condition.
    iii. Training: Train employees on the proper use, maintenance, and storage of PPE (if necessary).
e. Emergency Preparedness and Response:
    i. Emergency Plan: Develop and document an emergency response plan specific to the educational institution, covering scenarios such as evacuations involving students and faculty.
    ii. Drills: Conduct regular emergency drills in coordination with the institution's existing emergency procedures to ensure effective response by both construction personnel and institution stakeholders (if necessary).
    iii. Emergency Contacts: Maintain a list of emergency contacts and make it accessible to all employees.
f. Incident Reporting and Investigation:
    i. Reporting System: Establish a system for reporting workplace incidents, injuries, and near-misses.
    ii. Investigation: Investigate all incidents to determine causes and implement corrective actions to prevent recurrence.
    iii. Documentation: Maintain records of incidents, investigations, and corrective actions taken.
g. Health and Safety Inspections:
    i. Routine Inspections: Conduct regular safety inspections of the workplace to identify and address potential hazards, particularly those affecting areas frequented by students and faculty.
    ii. Inspection Records: Document inspection findings and ensure that corrective actions are taken.
h. Health and Wellness Programs:
    i. Health Monitoring: Implement programs for monitoring employee health and wellness, including pre-employment and periodic health checks.
    ii. Wellness Programs: Offer wellness programs and resources to promote employee well-being and reduce workplace stress.
i. Compliance and Legal Requirements:
    i. Regulatory Compliance: Ensure compliance with relevant local, national, and international health and safety regulations and standards.
    ii. Documentation: Keep up-to-date records of compliance, including permits, licenses, and safety certifications.
j. Communication and Involvement:

i. Safety Meetings: Hold regular safety meetings to discuss safety issues, share information, and engage employees in the safety program, with consideration for the educational setting.
ii. Feedback: Encourage and provide channels for employees to provide feedback on safety matters and participate in safety initiatives.

k. Documentation and Record-Keeping:
i. Safety Records: Maintain comprehensive records related to safety training, incident reports, inspections, and risk assessments.
ii. Accessibility: Ensure that safety documentation is readily accessible to employees, students, faculty, and relevant authorities.

l. Contractor Responsibilities:
i. Safety Precautions: The contractor must observe proper safety precautions to protect faculty, students, and other stakeholders in the vicinity. This includes implementing physical barriers, clear signage, and restricted access to construction zones.
ii. Communication: Coordinate with the institution to ensure that construction activities are conducted in a manner that minimizes disruption to academic activities and ensures the safety of all individuals on site.

VII. REPORTORIAL REQUIREMENT

Upon acceptance of the Notice to Proceed, the Contractor is required to submit the following documentation in Microsoft Word or an equivalent format:

Project Schedule:

- A detailed project schedule in the form of a bar chart, outlining all significant phases and milestones of the project.
- The schedule should clearly indicate the start and end dates for each phase, including any critical paths that may affect the project's timeline.
- Any dependencies or sequential tasks must be highlighted to ensure clarity in project execution.

Manpower Schedule:

- A corresponding manpower schedule that aligns with the project schedule, detailing the number and type of personnel required for each phase of the project.
- The manpower schedule should reflect the planned allocation of labor resources, ensuring that sufficient personnel are available to meet the project deadlines.
- Include information on work shifts, if applicable, and any planned overtime or special work arrangements.

Construction Methodology:

- A comprehensive construction methodology detailing the step-by-step approach for executing the electrical system upgrade.

- This should include methods for equipment and material handling, safety protocols, compliance with Philippine electrical standards, and the sequence of activities to minimize disruptions and ensure efficient execution.
- The methodology should demonstrate how critical phases, dependencies, and any potential risks will be managed, and outline contingency measures if delays or challenges arise.

The documents must be submitted within seven (7) days of receiving the Notice to Proceed. The documents will be subject to review and approval by the Project Management Unit before any construction activities commence.

VIII. PROJECT COMPLETION

The contractor shall complete the repair project within sixty (60) calendar days taking into account the unfavorable weather conditions.

IX. WARRANTY

The contractor shall guarantee the completed structure against defects and failure for its satisfactory performance vis-à-vis the prescribed Minimum Performance Standards and Specifications (MPSS) during the lifetime of the structure.

MINIMUM PERFORMANCE STANDARDS AND SPECIFICATIONS for the

COMPLETION OF URS BINANGONAN CANTEEN (LOT 2)

URS BINANGONAN CAMPUS

I. PROJECT BACKGROUND:

The completion and expansion of the canteen at URS Binangonan Campus addresses the growing needs of students, faculty, and staff for a well-equipped dining and gathering space. With an increasing campus population, the existing canteen facilities have become insufficient to accommodate the daily influx of patrons. This project aims to enhance the functionality, comfort, and accessibility of the canteen, aligning with the university's commitment to providing quality services and facilities.

II. PROJECT OBJECTIVE:

The main objective of this project is to complete and extend the existing canteen to provide a larger, more comfortable dining area that supports the needs of the university community. The project aims to improve overall capacity, enhance service efficiency, and offer a welcoming environment for students, faculty, and visitors alike.

III. PROJECT SITE:

The project site is situated within the URS Binangonan Campus, in a central area accessible to students, faculty, and staff. The canteen extension will integrate with the current structure, utilizing available space while maintaining compatibility with the campus's architectural and functional standards. The site allows for easy access to utilities and is strategically positioned to serve as a primary dining facility within the campus premises.

IV. SPECIFICATIONS AND WORK METHODOLOGIES:

The Contractor is required to perform the following scope of work:

1. **Project Billboard/ Sign Board:**
    a. *Material*: The billboard/sign board shall be constructed using approved materials that are durable and weather-resistant. All materials must be of high-quality and suitable for outdoor use.
    b. *Dimensions*: The billboard/sign board should have standard dimensions as required by local regulations or as specified by the project owner. Typically, the dimensions might range around 4 feet by 8 feet, or as per project specifications.

c. *Content*: The content on the billboard/sign board must include the project name, location, owner, contractor, project duration, start and end dates, and any other pertinent information. The text should be clearly legible, using a professional font and color scheme that contrasts with the background for maximum visibility.
d. *Placement*: The billboard/sign board must be installed in a conspicuous location at the project site, easily visible to the public and project stakeholders. It should be securely mounted and maintained in good condition throughout the entire duration of the project.
e. *Duration*: The billboard/sign board should remain in place and be well-maintained from the start of the project until its completion and final acceptance by the owner.

2. Mobilization/Demobilization:
    a. *Mobilization*: The general contractor is responsible for the efficient and timely setup of all necessary project facilities, equipment, and temporary utilities required for the execution of the project. This includes but is not limited to site offices, storage areas, worker accommodations (if applicable), safety barriers, and temporary power and water supplies. All setup activities must comply with relevant safety and environmental regulations.
    b. *Demobilization*: Upon completion of the project, the general contractor is responsible for the orderly dismantling and removal of all temporary facilities, equipment, and materials brought onto the site for the project. The contractor must ensure that the site is restored to its original condition or as specified in the contract. This includes the removal of debris, temporary structures, and any hazardous materials. Final site cleanup must be performed to the satisfaction of the project owner.
    c. *Timeline*: Mobilization should be completed before the commencement of construction activities and within the timeline specified in the project schedule. Demobilization should occur immediately following project completion and acceptance, ensuring no unnecessary delays.
3. Permits and Clearances (if necessary):
    a. *Responsibility*: The general contractor shall be solely responsible for obtaining all necessary permits and clearances required for the execution of the project. This includes, but is not limited to, building permits, environmental clearances, safety certifications, and any other approvals mandated by local and national statutory laws and regulations.
    b. *Compliance*: The contractor must ensure full compliance with all relevant laws, ordinances, and regulations throughout the project duration. This includes adhering to the requirements set forth by local government units, regulatory agencies, and other authorities having jurisdiction over the project.
    c. *Documentation*: Copies of all permits and clearances must be submitted to the project owner before the commencement of any construction activities. The contractor must maintain a complete and up-to-date record of all permits and clearances on-site and make them available for inspection upon request by the project owner or regulatory authorities.
    d. *Timeline*: All required permits and clearances must be secured within the timeline specified in the project schedule to avoid any delays in the start of construction. The contractor must promptly address any issues or delays in obtaining the necessary

permits to ensure the project proceeds as planned.

4. **Demolition and Disposal of Kitchen Wall(Affected by Expansion)**
    a. Performance Standards
        - The demolition work must be carried out safely, with appropriate signage, barriers, and precautions to prevent accidents and ensure the safety of workers and campus users.
        - Only the specified kitchen wall sections should be demolished, avoiding damage to any adjacent structures or utilities.
        - Debris Disposal: Disposal is allowed only for identified debris. Items with potential salvage value, such as reusable building materials or fixtures, must be carefully separated and turned over to campus officials for inventory.
    b. Specifications
        - Materials: Segregate all debris from the demolition; dispose of only designated debris, while salvageable materials are handled for turnover.
        - Tools and Equipment: Manual or mechanical tools approved for selective demolition to prevent structural impacts on remaining walls.
        - Process: Perform demolition with minimal dust and noise generation, using dust control measures as needed.
    c. Standards
        - Adherence to local building and demolition codes.
        - Workers must wear PPE and follow occupational safety guidelines.
        - Site cleanup is required daily, with debris sorted and removed accordingly.
5. **Removal and Disposal of Gutter(Due to Expansion)**
    a. Performance Standards
        - Gutter removal should be done carefully to avoid damage to adjacent structures.
        - Salvage and Disposal: Removed gutters should be assessed for reuse or recycling. Items with salvage value must be turned over to campus officials for inventory; only unusable sections are to be disposed of according to campus guidelines.
    b. Specifications
        - Materials: Remove only the gutter sections affected by expansion.
        - Tools: Use cutting and lifting tools suitable for sheet metal.
        - Disposal: If recycling is not possible, dispose of gutters per environmental and campus standards, separating any salvageable parts for inventory turnover.
    c. Standards
        - Follow regulations for metal waste management and protection of adjacent surfaces.
6. **Excavation Works**
    a. Performance Standards
        - Excavation work must be precise, with clear demarcation and protection to maintain structural integrity.
        - Excavated Materials: Segregate soil for reuse in backfilling or landscaping where feasible. Only unusable soil or waste materials should be disposed of,

while any items with salvage potential should be documented and turned over to campus officials.

b. Specifications
    - Depth and Area: Excavation area marked as per plans, achieving specified depth.
    - Equipment: Use appropriate excavation tools with slope protection if needed.
    - Soil Handling: Store soil responsibly, and dispose of unusable material according to campus or local disposal regulations.

c. Standards
    - Adhere to excavation safety standards, including barricading the site.
    - Comply with occupational safety standards, ensuring worker protection with PPE.

7. Concreting Works

a. Concrete Mixing
    - Performance Standards
        - Concrete must be mixed on-site using the specified proportions to achieve the required strength, consistency, and durability.
        - Manual (hand) mixing shall be conducted on a clean, hard surface to ensure uniform distribution of materials.
        - Concrete mix proportions must comply with the project's structural design requirements and meet the specified strength criteria.
    - Specifications
        - Materials: Cement, sand, coarse aggregates, and water must be of high quality and sourced according to project requirements.
        - Mix Ratio: The concrete mix ratio (e.g., 1:2:4 for cement: sand) should follow project specifications or as recommended by structural design requirements.
        - Water-Cement Ratio: The water-cement ratio should be controlled carefully to prevent excessive water, ensuring the concrete's strength and durability. Water must be clean and free from impurities.
    - Standards
        - Mixing should continue until the mix reaches a uniform, workable consistency.
        - Concrete must be used immediately after mixing; if not used within 30 minutes, it should be discarded as the quality may be compromised.
        - Temperature and environmental factors (e.g., high heat) must be monitored, with additional precautions as necessary to maintain concrete quality.

b. Concrete Placement
    - Performance Standards

- Concrete must be placed directly from the mixing area into the designated forms without delays.
- Ensure proper compaction to avoid voids and achieve a homogenous structure.
- Vibrators or tamping should be used as necessary to ensure the concrete is compacted and air voids are minimized.

- Specifications
  - Forms: Ensure that formwork is clean, properly aligned, and stable to prevent leaks or deformation during concrete placement.
  - Consolidation: Use tamping tools for manual compaction to ensure full consolidation and minimal air pockets within the concrete mass.
- Standards
  - Avoid dropping concrete from a height greater than 1.5 meters to reduce the risk of segregation.
  - Place and finish concrete continuously in layers, allowing no cold joints unless specified.
  - For large pours, plan for joint locations per structural design specifications.

c. Curing

- Performance Standards
  - Curing must begin immediately after placement to ensure proper hydration and strength development.
  - Curing methods should maintain moisture content, particularly in hot or dry conditions, to prevent cracking.
- Specifications
  - Curing Method: Apply wet burlap, plastic sheeting, or other approved materials to retain moisture in the concrete surface.
  - Duration: Curing must continue for a minimum of 7 days for ordinary Portland cement and 14 days for pozzolanic or other specified cements.
- Standards
  - Ensure consistent moisture on all exposed concrete surfaces, avoiding drying out during curing.
  - Periodically inspect curing measures to confirm they are intact and effective.

8. Masonry Works

a. Materials

- Concrete hollow Block(CHB):
  - CHBs must be 100mm thick and comply with Philippine National Standards (PNS) for concrete masonry units.
  - Blocks must be uniform in size and shape, free from cracks, and free from other defects that may affect strength or durability.

        - CHBs must meet the specified compressive strength, typically a minimum of 350 psi for non-load-bearing walls unless otherwise specified.
    - Mortar Mix
        - Mortar mix for CHB laying should be proportioned at a ratio of 1 part Portland cement to 3 parts sand, or as specified in the project documents.
        - The mortar should be mixed to a workable, plastic consistency, with clean water used to prevent contamination.

b. Masonry Wall Construction
    - Performance Standards
        - Walls must be constructed to be plumb, level, and aligned according to project plans.
        - Each block layer (course) must be properly leveled and aligned, with mortar joints fully filled and compacted for maximum strength and stability.
        - Vertical and horizontal joints should be staggered (running bond pattern) to enhance structural integrity.
    - Specifications
        - Joint Thickness: Mortar joints should be 10mm thick unless otherwise specified.
        - Bond Pattern: Use a running bond pattern unless another bond pattern is specified in the design.
        - Alignment: Blocks must be accurately aligned, and each course should be checked for level and plumbness.
    - Standards
        - Follow local building codes and masonry standards.
        - Ensure that all courses are straight and aligned by using a level and string line for guidance.

c. Reinforcement and Grouting
    - Performance Standards
        - Reinforce masonry walls as specified, ensuring all reinforcements are installed in alignment with the structural plans.
        - Vertical reinforcements must be installed within the CHB cores at specified intervals and should be secured to foundation reinforcements where applicable.
        - Grout (if required for reinforced masonry) must be properly poured into CHB cores to encapsulate the reinforcement bars.
    - Specifications
        - Reinforcement Bars: Use specified rebar size and spacing according to structural plans.
        - Grouting: Grout should be mixed according to specified proportions for strength and durability, typically using a 1:3

cement-sand ratio.

- Standards
    - Reinforcements should be free from rust, oil, or other substances that may reduce bonding with grout.
    - Cores should be free of debris before grouting.

d. Curing and Finishing
- Performance Standards
    - Curing should begin as soon as mortar or grout has set, ensuring that the masonry is kept moist to achieve desired strength.
    - Surface finishing should be uniform and follow the specified texture or smoothness, depending on the project requirements.
- Specifications
    - Curing: Curing should continue for a minimum of 7 days, with surfaces kept moist using water or covered with damp fabric to retain moisture.
    - Finish: If plastering or other finishes are required, ensure all mortar joints are properly prepared to receive finishing coats.
- Standards
    - Adhere to applicable masonry standards for curing to prevent shrinkage cracks and ensure bond strength.
    - Regularly inspect curing measures to ensure they are effective.

e. Repair of Damages
- Performance Standards
    - Any structural or architectural components damaged during the masonry works must be repaired or replaced at the contractor's cost.
    - Repairs should restore the integrity and aesthetics of the affected components.

9. Roof Framing and Roofing Works

a. Roof Framing
- Performance Standards
    - Roof framing must be securely installed according to structural plans, ensuring proper load-bearing capacity to support roofing materials and resist wind uplift.
    - All joints must be welded to ensure structural stability, following the welding standards and techniques specified in the design documents.
    - Verify all dimensions, locations, and spacing on-site to align with the approved plans, including spans, elevations, and bracing details.
- Specifications
    - Materials:
        i. Use 38mm x 38mm angle bars (3mm thick) and C-

purlins (size as per plan, typically 50mm x 100mm, with thickness 1.2mm or as specified).

- All framing materials must be free from rust, deformation, or defects before installation.
- Connections: Weld all connections securely, using continuous welds where specified to achieve full bonding.
- Alignment: Use laser levels or string lines to ensure all framing components are correctly aligned and level to avoid structural and roofing alignment issues.

- Standards
  - Comply with Philippine National Standards (PNS) for structural steelwork, and follow welding standards such as AWS D1.1 for steel structures.
  - Ensure proper spacing as indicated on plans, with purlins and trusses positioned according to design loads for wind and roof weight.

b. Roofing Installation
   - Performance Standards
     - Roofing sheets must be installed to provide a watertight, durable cover that meets wind resistance requirements.
     - Ensure that sheets are laid with proper overlap (typically 150mm minimum on side laps and 200mm on end laps) to prevent leaks.
     - Pre-painted flashing must be installed on all exposed edges and joints to protect against water ingress and improve aesthetics.
   - Specifications
     - Roofing Sheets: Use pre-painted rib-type metal sheets, 0.4mm thick, with durable paint coating to resist weathering. Sheet lengths should match the specified dimensions on the plans.
     - Flashing: Use pre-painted flashing, gauge 24, around ridges, hips, valleys, and edges to prevent water infiltration. Flashing must be secured firmly without gaps or loose sections.
     - Fasteners: Use corrosion-resistant roofing screws with rubber washers, spaced per manufacturer's recommendations (typically at every rib for exposed edges and every other rib for general area).
     - Insulation (if applicable): If specified, install P.E. foam insulation (5mm thick) beneath the roofing sheets, ensuring it is continuous and secured to prevent gaps and air pockets.
   - Standards
     - Adhere to the National Building Code of the Philippines and PNS for roofing material installation and weatherproofing.
     - Follow the manufacturer’s instructions for fastening and flashing installation to ensure compliance with warranty requirements.

c. Inspection and Adjustments
    - Performance Standards
        - Conduct a thorough inspection of the framing alignment, welding quality, and joint connections before roofing installation.
        - Inspect the completed roofing installation for alignment, secure fastening, and leak prevention. Correct any misalignment or loose fasteners immediately.
    - Specifications
        - Perform field inspections to ensure all framing elements and roofing panels meet the required specifications and structural integrity.
        - Test for water tightness after installation by applying water to detect potential leaks, especially around flashings, overlaps, and fastener areas.
    - Standards
        - Ensure that all on-site inspections comply with the project's quality assurance procedures.
        - Any damage to structural or architectural components during framing and roofing works must be repaired at the contractor's expense.

10. Fiber Cement Board Wall

a. Materials
    - Fiber Cement Board
        - The drywall partition shall be constructed using 6mm thick fiber cement board, which meets the appropriate Philippine National Standards (PNS) for fiber cement boards.
        - The fiber cement board must be free from defects such as cracks, chips, or deformation. It should have a smooth surface, ideal for painting or finishing.
        - The boards must be moisture, fire, and termite resistant, ensuring durability in both interior and semi-exterior applications.
    - Metal Studs
        - Use cold-formed galvanized steel studs, typically C-shaped or U-shaped, with a thickness of 0.5mm to 1.0mm, and galvanized coating to prevent rust and corrosion.
        - The studs must be of appropriate gauge as per the structural load requirements specified in the project plans.
    - Fasteners
        - Use self-tapping screws for attaching the fiber cement boards to the studs. The screws should have a corrosion-resistant coating and be long enough to penetrate the metal studs by at least 15mm.
        - Ensure that all fasteners are properly spaced, typically 200mm

apart on the edges and 400mm apart in the field.

- Jointing Material
    - Use a joint compound that is compatible with fiber cement boards, ensuring strong adhesion and a smooth finish for the joints and seams.
    - Use fiberglass tape to reinforce the joints and prevent cracking.

b. Installation
    - Performance Standards
        - The partition must be installed plumb, level, and straight, with all components aligned according to the project's approved drawings.
        - All fiber cement boards should be installed with a 5mm gap from the floor to allow for moisture movement and expansion.
        - Ensure that all screw heads are driven just below the surface of the fiber cement board but not deep enough to cause damage.
    - Specifications
        - Frame Layout: The metal studs should be spaced at 400mm to 600mm centers, depending on the specific requirements stated in the design plans.
        - Board Installation: Install the fiber cement boards perpendicular to the studs. Start with the bottom row and proceed upwards, ensuring each row is level.
        - Seams and Joints: All edges of fiber cement boards should be properly aligned, and the joints between boards must be finished with joint compound and fiberglass tape. The boards must be tightly fitted at the joints with no gaps.
    - Standards
        - Follow all installation guidelines and specifications outlined by the manufacturer for the fiber cement board and metal stud system.
        - Ensure compliance with the National Building Code of the Philippines and Philippine Standards for drywall construction, including the proper attachment methods for partitions.

c. Finishing
    - Performance Standards
        - The finished partition must have a smooth, level surface, ready for painting or other finishes as required by the project.
        - Joints between the boards must be well-finished, with no visible cracks or gaps.
        - The partition must be free from any visible fastener heads after the finishing and jointing process.
    - Specifications
        - Joint Treatment: All joints must be treated with joint compound and reinforced with fiberglass tape. The joints should be sanded

smooth after drying, ensuring a seamless surface.

- Surface Finish: The surface of the fiber cement board should be sanded smooth and prepared for painting or other surface treatments.
- Painting: If painting is required, apply a suitable primer for fiber cement boards followed by the desired finish coat of paint.

- Standards
  - Ensure that all finishing works comply with the specified surface quality standards, ensuring smoothness and uniformity across the entire partition.
  - Perform a final inspection to check for surface imperfections, ensuring that all joints, corners, and edges are neatly finished.

d. Structural Integrity and Durability
   - Performance Standards
     - The drywall partition must have sufficient strength to support light fixtures, decorative elements, or other installed items as specified in the project requirements.
     - The partition should remain stable and intact under normal use and should not sag, warp, or bow over time.
   - Specifications
     - Support: Install vertical supports at a maximum of 400mm to 600mm spacing for proper load distribution, ensuring that the partition remains straight and stable.
     - Durability: Ensure the fiber cement board's resistance to fire, moisture, and impact in accordance with the project's environmental conditions and intended use of the space.
   - Standards
     - Follow industry best practices for drywall partition systems, ensuring the system meets the minimum requirements for strength, durability, and safety as outlined in the National Building Code of the Philippines.

e. Maintenance and Warranty
   - Performance Standards
     - The contractor shall provide a warranty for the partition, guaranteeing that it will remain free from defects in materials and workmanship for a period of at least one year from the completion date.
   - Specifications
     - Warranty: The warranty should cover any defects such as cracking, warping, or failure of the joints under normal conditions. It does not cover damage due to misuse or extreme conditions.
     - Maintenance: The partition should be maintained in accordance with the manufacturer's recommendations to ensure its

longevity.

11. Painting Works

a. General Requirements
   - Performance Standards
     - The paint application should result in a smooth, uniform, and aesthetically pleasing finish, free from defects such as runs, brush marks, or visible roller marks.
     - The surface to be painted must be clean, dry, and free from dust, grease, oil, or any contaminants that may affect the adhesion of the paint.
     - The painting work must be carried out under proper weather conditions, ensuring that temperatures are within the recommended range specified by the paint manufacturer.
   - Specifications
     - Use only high-quality paints that are compatible with the substrates (concrete, fiber cement board, and metal).
     - Apply paints as per the manufacturer's specifications for coverage, application methods, and drying times.

b. Painting on Concrete and Fiber Cement Board Surfaces
   - Performance Standards
     - The painted surface should be durable, resistant to wear, and capable of withstanding cleaning without degradation.
     - The finish should provide good adhesion, resistance to moisture, and protection from environmental factors like dirt and stains.
   - Specifications
     - Surface Preparation
       i. For concrete surfaces, ensure that the surface is fully cured, clean, dry, and free from efflorescence, mold, or any other contaminants.
       ii. For fiber cement board surfaces, ensure the boards are dry, free from dust, and properly installed with no visible gaps or holes.
       iii. For both surfaces, sand any rough or uneven areas to create a smooth, even surface for painting.
     - Priming
       i. Use a concrete primer for concrete surfaces and a fiber cement primer for fiber cement board surfaces, as recommended by the paint manufacturer. The primer should be applied evenly, ensuring full coverage.
     - Topcoat
       i. Apply latex paint (flat or semi-gloss, as specified in the contract) in two coats. The first coat should be applied after the primer has dried completely, and the second

coat should be applied after the first has dried to ensure an even finish.

ii. Ensure that each coat is dry to the touch before applying the next layer.

- Finish
  i. The final coat should be smooth, uniform, and without streaks or brush marks. Ensure that the paint is applied evenly without visible lap marks.

- Standards
  - Follow Philippine National Standards (PNS) and manufacturer recommendations for paint application.
  - Ensure all surfaces are thoroughly cleaned and properly prepared before starting the painting process.

c. Painting on Metal Surfaces

- Performance Standards
  - The paint application should result in a smooth, uniform, and durable finish that provides long-lasting protection against corrosion, rust, and wear.
  - The painted surface must be resistant to adverse weather conditions, moisture, and environmental pollutants.
- Specifications
  - Surface Preparation
    i. Metal surfaces must be clean, dry, and free from rust, grease, oil, and any contaminants. Remove any existing paint, rust, and dirt using sandpaper, wire brushing, or a power sander.

    ii. If necessary, apply a metal primer to ensure better adhesion and protection against rust before applying the enamel.
  - Primer
    i. Apply an appropriate metal primer that provides rust protection and improves the adhesion of the enamel. Allow the primer to dry completely before applying the enamel.
  - Topcoat(Quick Drying Enamel)
    i. Apply quick drying enamel paint in two coats using a brush, roller, or spray as appropriate. The first coat should be applied after the primer has dried, and the second coat should be applied after the first coat has dried, ensuring an even finish.

    ii. Ensure the paint is spread evenly across the surface, covering all exposed metal areas. Allow sufficient drying time between coats as per the manufacturer's recommendations.

- Standards
    - Follow Philippine National Standards (PNS) and the paint manufacturer's instructions for the correct application of quick drying enamel.
    - Ensure that the paint is applied in the appropriate environmental conditions (dry, moderate temperature) and that it is allowed to cure properly to achieve full hardness and durability.

d. Application Methodology
    - Performance Standards
        - The application of paint must be smooth, with no drips, brush marks, or other visible imperfections. Each coat should be applied evenly to cover all surface areas.
        - The painting work must be completed in a clean, controlled environment to prevent dust, debris, or contaminants from adhering to the wet paint.
    - Specifications
        - Tools and Equipment: Use appropriate brushes, rollers, or sprayers to apply the paint based on the surface being treated. Ensure that tools are clean and in good condition.
        - Drying Time: Allow sufficient drying time between coats according to the manufacturer's guidelines to ensure proper adhesion and curing.
        - Touch-ups: After the final coat has dried, inspect the surface for any missed spots or imperfections. Conduct touch-ups as necessary to achieve a uniform and seamless finish.
    - Standards
        - Follow best practices for paint application and curing times, as specified by the paint manufacturer and in line with PNS and quality standards.

e. Warranty and Maintenance
    - Performance Standards
        - The painting works should come with a one-year warranty for material and workmanship, guaranteeing that the painted surfaces remain free from defects under normal conditions.
        - The warranty should cover any issues such as peeling, fading, or premature wear, provided that the surfaces have been maintained as per the manufacturer's recommendations.
    - Specifications
        - Provide a written warranty covering defects in materials and workmanship for a minimum of one year from the date of project completion.
        - Ensure that the painting work is properly maintained by performing periodic inspections and cleaning as recommended by the manufacturer.

12. Tiling Works

a. General Requirements
- Performance Standards
  - The tiling work should be executed with high precision, ensuring a uniform, durable, and aesthetically pleasing finish.
  - All tile installations should meet the standard of flatness, level, and alignment as per the approved design.
  - All tiles must be free from defects such as chips, cracks, or discoloration and should be installed properly with uniform grout lines.
- Specifications
  - Tiles should be sourced from reputable manufacturers and comply with applicable Philippine National Standards (PNS) for quality and durability.
  - The adhesive, grout, and sealants used must be suitable for the type of tile and surface being installed and must meet manufacturer specifications.
  - The installation must adhere to the approved layout, with tiles cut neatly and precisely where necessary.

b. Tiling on Floor (300mmx 300mm Non-Glazed tiles)
- Performance Standards
  - The floor tiles should be properly bonded to the substrate, ensuring no movement or cracking over time.
  - The floor surface should be smooth, level, and free from imperfections.
  - All grout lines must be even, consistent, and properly filled, with no visible gaps.
- Specifications
  - Surface Preparation
    i. The substrate must be clean, dry, level, and free of any oils, dirt, or debris.
    ii. Any uneven surfaces should be smoothed out before tiling to prevent issues with tile placement or adhesion.
  - Adhesive
    i. Use a high-quality thin-set mortar suitable for non-glazed ceramic tiles. The adhesive should be mixed in accordance with the manufacturer's recommendations.
  - Tile Layout
    i. Tiles should be laid out in a grid pattern, ensuring uniformity in spacing and alignment. The center line should be used as a reference to maintain symmetry.
  - Installation
    i. Apply the adhesive to the substrate using a notched trowel. The adhesive must be spread evenly to avoid air

pockets or uneven bonding.

ii. Press each tile firmly into place, ensuring that it is level and properly aligned with adjacent tiles. Gaps between tiles should be consistent as per the desired grout width (typically 3mm).

- Grouting
  i. Once the tiles have been set and the adhesive has cured, fill the grout lines with a high-quality cementitious grout or epoxy grout. Ensure that the grout is applied evenly and fills all gaps between tiles.
  ii. Clean excess grout off the tile surfaces immediately to avoid stains and residue.

- Standards
  - Follow Philippine National Standards (PNS) for tiling works, and ensure that tiles meet the minimum requirements for slip resistance, especially for floor installations.
  - Ensure that grout lines are neat, even, and uniform in width. Tiles must be installed according to the approved layout and pattern.

c. Tiling on Wall (300mm x600mm Glazed tiles)

- Performance Standards
  - Wall tiles should be installed securely, with no visible defects, and must adhere firmly to the substrate without loosening over time.
  - The finish should be smooth, even, and aligned, with all grout lines consistent and free from gaps or voids.
  - The tiles should be aesthetically pleasing, with proper cuts along edges to maintain the design intent.
- Specifications
  - Surface Preparation
    i. Ensure that the wall surface is clean, smooth, dry, and free of contaminants. It should be prepared by sanding or smoothing out any rough areas before installation.
    ii. For high-moisture areas (e.g., bathrooms), apply a waterproofing membrane before tiling.
  - Adhesive
    i. Use a non-sag thin-set mortar designed for wall applications and suitable for glazed tiles. Follow the manufacturer’s instructions for mixing and application.
  - Tile Layout
    i. Use a reference line to ensure that the tiles are installed evenly. Tiles should be installed from the center of the wall to ensure symmetry, especially if they are rectangular.

- Installation
    i. Apply adhesive to the wall surface with a notched trowel, ensuring an even layer.
    ii. Press the tiles into place, ensuring alignment, level, and consistent spacing between tiles. Use tile spacers for accurate grout joint widths (typically 3mm).
- Grouting
    i. Once the tiles are set and the adhesive has cured, grout the joints with a high-quality grout suitable for glazed ceramic tiles. Clean any excess grout immediately after application to prevent it from drying on the tile surface.
    ii. For wet areas or areas subject to high humidity, use a grout that is resistant to mold and mildew.

- Standards
    - Tiles must comply with PNS for wall tiling, with particular attention to the size, finish, and weight of the tiles.
    - The grout should be resistant to staining and provide a durable, long-lasting finish.
    - Ensure that the wall tiles are installed in a plumb and level manner with uniform grout joints.

d. General installation Requirements for Both Floor and Wall tiling
- Performance Standards
    - Tiles must be installed without warping, curling, or cracking, with each tile securely adhered to the surface.
    - All tiles must be clean, free from cracks, chips, or other defects, and must be cut precisely when necessary.
- Specifications
    - Cleaning
        i. Clean all surfaces thoroughly before and after tile installation. Ensure that there is no debris, dust, or adhesive residue on the tiles after the installation is complete.
    - Curing
        i. Allow the adhesive to set for at least 24 to 48 hours before grouting or walking on floor tiles. Ensure that the grout is allowed to cure as per the manufacturer's recommendations.
- Standards
    - Tiles should meet the performance requirements of PNS for strength, appearance, and resistance to wear.
    - Ensure that grout and tile installation meets or exceeds the standards for durability, water resistance, and aesthetic appearance.

e. Warranty and Maintenance

- Performance Standards
    - The tiles should be free from defects in material and workmanship for a minimum of one year from the date of completion.
    - The tiled surface should remain functional and visually appealing for the expected life cycle of the tiles with proper care and maintenance.
- Specifications
    - Provide a one-year warranty covering any defects in material or workmanship related to the tiling installation.
    - Ensure that maintenance instructions are provided to the building owner or manager to keep the tiles and grout in good condition, including regular cleaning and periodic sealing of grout lines if necessary.

13. Ceiling Works

a. General Requirements

- Performance Standards
    - The ceiling shall be smooth, level, and free from any visual defects or imperfections.
    - The installed fiber cement board ceiling should be securely fastened and should not exhibit any signs of sagging or warping over time.
    - All joints and edges of the fiber cement boards shall be properly aligned and finished with no visible gaps.
    - The installation should provide adequate sound insulation and fire resistance as per the material specifications.
- Specifications
    - The fiber cement boards must be of 4.5mm thickness, and sourced from a reputable manufacturer.
    - The fiber cement board should be water-resistant, fire-resistant, and resistant to mold growth.
    - All boards must meet the Philippine National Standards (PNS) or any other applicable standards for safety, fire resistance, and durability.

b. Materials

- Fiber Cement Board
    - The 4.5mm thick fiber cement board should be free from cracks, chips, or visible defects. It should be able to withstand the humidity, temperature variations, and wear typically encountered in ceiling installations.
    - The fiber cement board must be capable of withstanding external elements if applicable (e.g., in areas with high moisture).
- Fasteners

- Use corrosion-resistant screws and fasteners that are suitable for attaching the fiber cement boards to the ceiling framing.
- Fasteners must be long enough to securely penetrate the support structure but should not protrude beyond the surface of the board.

- Joint Fillers and Sealants
  - Joint filler should be used to fill gaps between fiber cement boards.
  - Use a high-quality sealing compound at the joints and edges to ensure a smooth finish and prevent moisture penetration.
  - Joint tape should be applied to all joints for reinforcement and a seamless appearance.

c. Surface Preparation
- Ceiling Framing
  - The ceiling framing (whether metal or wooden) must be clean, level, and free of any obstructions or moisture that could affect the board's performance.
  - Ensure that the framing is properly spaced and aligned to provide adequate support for the fiber cement boards (typically, framing members should be spaced at intervals of 400mm to 600mm).
- Conditioning Materials
  - Prior to installation, ensure that the fiber cement boards are stored in a dry, clean area to avoid warping or moisture absorption.

d. Installation
- Board Placement
  - The fiber cement boards should be placed perpendicular to the ceiling framing members for added strength and stability.
  - The boards must be installed with their edges aligned to the framing and should be secured to the framing at appropriate intervals, typically at least every 300mm along the framing.
  - Ensure that boards are cut neatly to fit around light fixtures, vents, and other ceiling obstructions. Use a fine-toothed saw or scoring tool for precise cuts.
- Attachment
  - Secure each fiber cement board with rust-resistant screws or nail fasteners as per the manufacturer's recommendations.
  - Ensure that the screws or nails are placed 20mm to 30mm from the edge of each board, ensuring that the fasteners do not protrude from the board's surface.
- Joints and Gaps
  - All joints between the boards should be filled with joint filler or plaster compound and taped with fiberglass joint tape to ensure

a smooth, seamless finish.
- Joints should be carefully smoothed to avoid visible seams. Excess joint compound should be wiped off before it dries.

e. Finishing
- Surface Treatment
  - Once the boards are installed, all seams should be smoothed out and filled with joint compound.
  - Any screw or nail heads must be recessed and covered with joint compound to create a smooth, even surface.
  - After the joint compound has dried, lightly sand the surface to remove any uneven areas and ensure smoothness.
- Painting
  - The finished surface of the fiber cement board should be painted with latex paint or any suitable finish to enhance the appearance and provide further protection.
  - The paint should be applied in two coats: the first coat (primer) should be a suitable latex primer, and the second coat should be a flat latex paint for durability and ease of cleaning.

f. Warranty and Maintenance
- Warranty
  - Provide a one-year warranty for any defects in material or workmanship from the date of completion. This warranty should cover any issues with sagging, delamination, or any failure in material integrity due to manufacturing defects.
- Maintenance
  - The ceiling should be regularly inspected to ensure that no water damage, cracks, or other damage has occurred. Any issues with the ceiling should be repaired promptly to maintain its functionality and appearance.
  - For cleaning, use a soft cloth or vacuum to remove dust and avoid harsh chemicals that could damage the surface.

14. Sanitary and Plumbing Works

a. Specifications:
- Piping System (Drainage):
  - Material: PVC pipes for drainage, waste, and vent lines, following ASTM D2665 standards.
  - Size: As specified in project plans to ensure optimal flow and drainage.
  - Connections: Solvent weld or rubber couplings for PVC joints, ensuring leak-free connections.
  - Support: Support PVC pipes at 1.2m intervals horizontally and 1.8m vertically.
- Water Supply System (PPR Pipes):
  - Material: PPR pipes for hot and cold water lines, conforming to

ISO 15874 standards.
- Size: Pipe diameters as specified in the design to ensure sufficient water pressure and flow rate.
- Connections: Use heat fusion welding for secure, leak-free joints in PPR piping.
- Supports: Use pipe supports at intervals of 0.5m to 1m to avoid sagging or misalignment.

- Fixtures and Accessories:
  - Toilets, Lavatories, Faucets, Showers, Floor Drains: Installed as specified in previous details.

b. Standards:
   - Compliance with Code: Install all piping and fixtures according to local and national plumbing codes.
   - Manufacturer's Recommendations: Adhere to manufacturers' specifications for PPR installation and fusion welding techniques.
   - Water Conservation: Use water-efficient fixtures where specified, to comply with environmental standards.
   - Leak Testing: Pressure test PPR waterlines at 1.5 times the operating pressure after installation to ensure integrity.
c. Methodology:
   - Preparation
     - Site Layout: Mark fixture locations, pipe routes, and valve points according to the design plan.
     - Materials Check: Inspect PPR pipes, PVC pipes, fittings, and fixtures for any visible damage.
d. Piping Installation
   - Drainage System (PVC):
     - Routing and Slope: Route PVC drainage lines with a slope of 1/4 inch per foot for gravity drainage.
     - Jointing and Supports: Solvent-weld PVC joints, securing them with supports to prevent sagging.
e. Water Supply System (PPR Embedded in Concrete):
   - Cutting and Welding: Use clean cuts and heat fusion welding for all PPR pipe joints, ensuring a secure, leak-proof bond.
   - Positioning in Concrete: Position pipes with sleeves within the concrete hollow block channels or concrete surface, securing temporarily with clips if necessary.
   - Pressure Testing: Perform pressure testing before pouring concrete to check for any leaks.
f. Fixture Installation
   - Installation of Toilets, Lavatories, Faucets, and Showers: Securely attach each fixture to the embedded PPR supply and PVC drainage lines as per specified fixture height and alignment.
g. Final Inspection and Finishing

- Testing: After embedding and curing, perform a final pressure and operational test to ensure the system is functional and leak-free.
- Surface Sealing: Seal around fixture penetrations and pipe outlets to prevent water intrusion.

h. Documentation and Handover
- Provide an as-built layout, with pipe routings in concrete and fixture locations documented for future reference.

15. Electrical Works

a. Specifications:
- Wiring and Conduits:
  - Wires: THHN copper wires sized according to load requirements.
  - Voltage Rating: Wires and equipment shall conform to Philippine electrical standards, typically 220V for residential and general-purpose circuits.
  - Conduits: PVC conduits for embedded installations; flexible metal conduits for surface installations as required by the design. Conduit sizing shall follow Philippine standards.
- Outlets, Switches, and Fixtures:
  - Outlets: Standard 15A or 20A duplex outlets for general circuits, with GFCI outlets in wet areas.
  - Switches: Toggle or rocker switches rated for 15A or 20A, depending on circuit requirements.
  - Lighting Fixtures: LED fixtures with wattage based on design and energy efficiency requirements.
  - Mounting Height: Outlets typically installed at 300mm above finished floor, switches at 1.2m to 1.5m from floor level.
- Testing and Safety Equipment:
  - Insulation Resistance: Megger testing of cables to ensure insulation integrity.
  - Voltage Testing: Test each circuit for correct voltage and continuity in compliance with local standards.
  - Breaker Labels: Proper labeling of all circuit breakers for easy identification.

b. Standards:
- Compliance with Code: All installations must follow the Philippine Electrical Code (PEC) for safety and efficiency.
- Manufacturer's Guidelines: Install fixtures, panels, and devices as per manufacturer recommendations.

c. Methodology:
- Preparation and Planning
  1. Site Layout: Mark locations for outlets, switches, panels, and fixtures per the design plan.
  2. Materials Check: Inspect wires, conduits, and fixtures for compliance

with specifications and standards.

- Conduit and Cable Installation
    - Routing:
        i. Embedded Conduits: Install PVC conduits in walls or ceilings as per design, ensuring depth requirements for embedded conduits.
        ii. Surface Conduits: Use metal or flexible conduits for exposed installations.
    - Wire Pulling:
        i. Pull THHN wires through conduits, labeling at both ends to identify circuits accurately.
- Fixture and Device Installation:
    - Outlets and Switches:
        i. Install outlets and switches at designated heights, connecting all live, neutral, and ground wires as per polarity.
        ii. Install GFCI outlets in all designated wet areas.
    - Lighting Fixtures:
        i. Mount and connect lighting fixtures following design requirements and grounding where applicable.
- Testing and Inspection:
    - Continuity and Polarity: Check continuity and polarity of all circuits.
- Final Inspection and Handover:
    - Inspection: Final inspection with an authorized representative to confirm code compliance.
    - Documentation: Provide as-built documentation and maintenance instructions.

V. MINIMUM REQUIREMENTS FOR SAFETY AND HEALTH PROGRAM

a. Safety Management System:
    i. Safety Policy: Develop and document a safety policy outlining the organization's commitment to health and safety, particularly considering the presence of faculty, students, and other stakeholder
    ii. Objectives: Define clear safety objectives and goals aligned with organizational priorities and the educational environment.
    iii. Responsibilities: Assign safety responsibilities and designate an Occupational Safety Officer or Project Safety Officer. This individual should have relevant training certified by the Department of Labor and Employment (DOLE) and be the point person for safety protocols. This role may be filled by the assigned project engineer if suitably qualified.
b. Risk Assessment and Management:

i. Hazard Identification: Conduct regular hazard assessments to identify potential safety risks and health hazards in the workplace.
ii. Risk Evaluation: Evaluate the risks associated with identified hazards and their potential impact on students, faculty, and other stakeholders.
iii. Control Measures: Implement appropriate control measures to mitigate or eliminate identified risks, including physical barriers, signage, and restricted access to hazardous areas.

c. Safety Training and Education:
    i. Orientation: Provide safety orientation and training for all new employees and contractors, emphasizing the unique environment of the educational institution.
    ii. Ongoing Training: Offer regular safety training and refresher courses for all employees on relevant topics, including emergency procedures and hazard recognition, with a focus on interacting safely in an environment with students and faculty (if necessary).
    iii. Specialized Training: Provide additional training for employees exposed to specific hazards or using specialized equipment (if necessary).
d. Personal Protective Equipment (PPE):
    i. Provision: Provide appropriate PPE to employees based on the identified hazards.
    ii. Use and Maintenance: Ensure that employees use PPE correctly and that it is maintained in good condition.
    iii. Training: Train employees on the proper use, maintenance, and storage of PPE (if necessary).
e. Emergency Preparedness and Response:
    i. Emergency Plan: Develop and document an emergency response plan specific to the educational institution, covering scenarios such as evacuations involving students and faculty.
    ii. Drills: Conduct regular emergency drills in coordination with the institution's existing emergency procedures to ensure effective response by both construction personnel and institution stakeholders (if necessary).
    iii. Emergency Contacts: Maintain a list of emergency contacts and make it accessible to all employees.
f. Incident Reporting and Investigation:
    i. Reporting System: Establish a system for reporting workplace incidents, injuries, and near-misses.
    ii. Investigation: Investigate all incidents to determine causes and implement corrective actions to prevent recurrence.
    iii. Documentation: Maintain records of incidents, investigations, and corrective actions taken.
g. Health and Safety Inspections:
    i. Routine Inspections: Conduct regular safety inspections of the workplace to identify and address potential hazards, particularly those affecting areas frequented by students and faculty.
    ii. Inspection Records: Document inspection findings and ensure that corrective actions are taken.
h. Health and Wellness Programs:
    i. Health Monitoring: Implement programs for monitoring employee health and wellness,

including pre-employment and periodic health checks.
    ii. Wellness Programs: Offer wellness programs and resources to promote employee well-being and reduce workplace stress.

i. Compliance and Legal Requirements:
    i. Regulatory Compliance: Ensure compliance with relevant local, national, and international health and safety regulations and standards.
    ii. Documentation: Keep up-to-date records of compliance, including permits, licenses, and safety certifications.

j. Communication and Involvement:
    i. Safety Meetings: Hold regular safety meetings to discuss safety issues, share information, and engage employees in the safety program, with consideration for the educational setting.
    ii. Feedback: Encourage and provide channels for employees to provide feedback on safety matters and participate in safety initiatives.

k. Documentation and Record-Keeping:
    i. Safety Records: Maintain comprehensive records related to safety training, incident reports, inspections, and risk assessments.
    ii. Accessibility: Ensure that safety documentation is readily accessible to employees, students, faculty, and relevant authorities.

l. Contractor Responsibilities:
    i. Safety Precautions: The contractor must observe proper safety precautions to protect faculty, students, and other stakeholders in the vicinity. This includes implementing physical barriers, clear signage, and restricted access to construction zones.
    ii. Communication: Coordinate with the institution to ensure that construction activities are conducted in a manner that minimizes disruption to academic activities and ensures the safety of all individuals on site.

VI. REPORTORIAL REQUIREMENT

Upon acceptance of the Notice to Proceed, the Contractor is required to submit the following documentation in Microsoft Word or an equivalent format:

Project Schedule:

- A detailed project schedule in the form of a bar chart, outlining all significant phases and milestones of the project.
- The schedule should clearly indicate the start and end dates for each phase, including any critical paths that may affect the project's timeline.
- Any dependencies or sequential tasks must be highlighted to ensure clarity in project execution.

Manpower Schedule:

- A corresponding manpower schedule that aligns with the project schedule, detailing the number and type of personnel required for each phase of the project.

- The manpower schedule should reflect the planned allocation of labor resources, ensuring that sufficient personnel are available to meet the project deadlines.
- Include information on work shifts, if applicable, and any planned overtime or special work arrangements.

Construction Methodology:

- A comprehensive construction methodology detailing the step-by-step approach for executing the electrical system upgrade.
- This should include methods for equipment and material handling, safety protocols, compliance with Philippine electrical standards, and the sequence of activities to minimize disruptions and ensure efficient execution.
- The methodology should demonstrate how critical phases, dependencies, and any potential risks will be managed, and outline contingency measures if delays or challenges arise.

The documents must be submitted within seven (7) days of receiving the Notice to Proceed. The documents will be subject to review and approval by the Project Management Unit before any construction activities commence.

VII. PROJECT COMPLETION

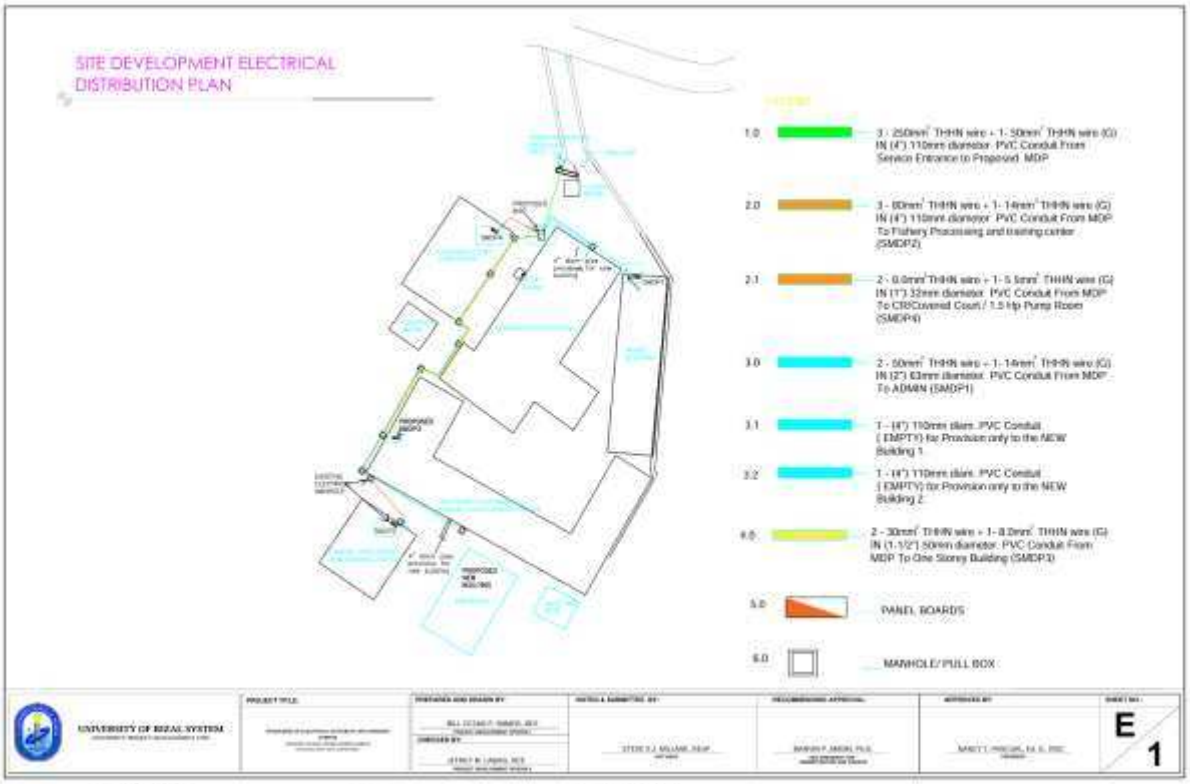
The contractor shall complete the repair project within sixty (60) calendar days taking into account the unfavorable weather conditions.

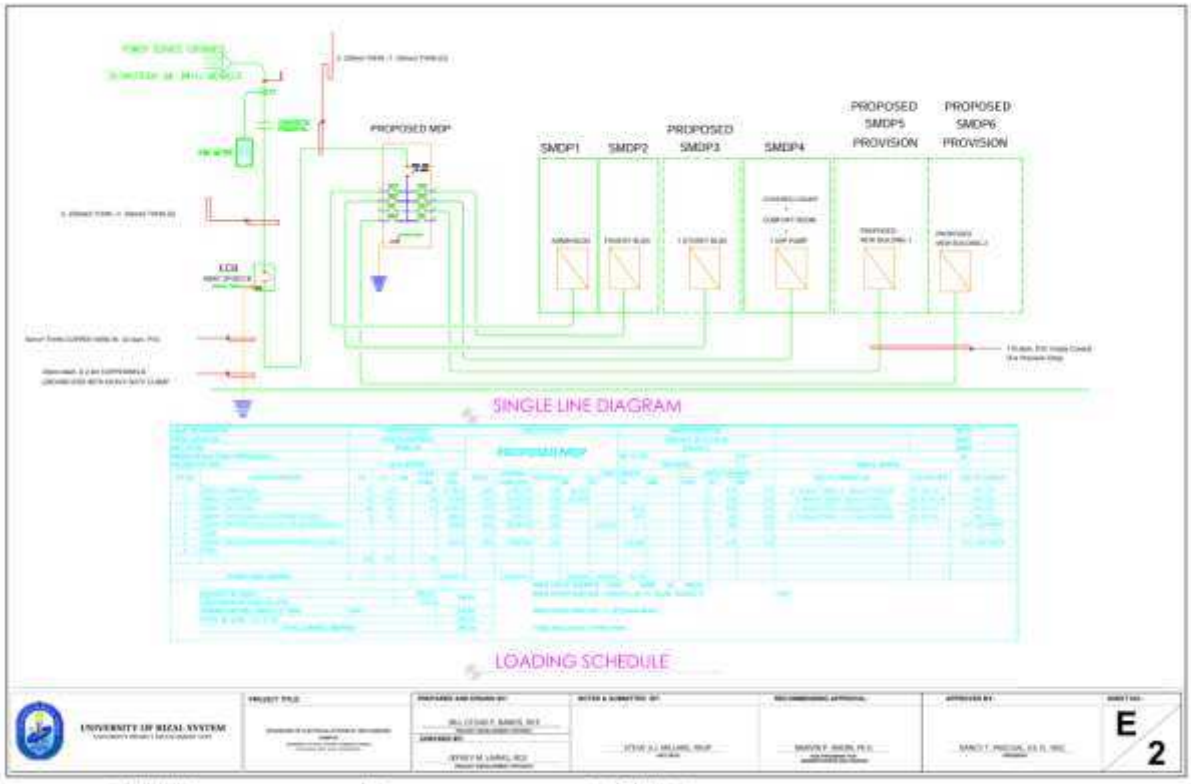
VIII. WARRANTY

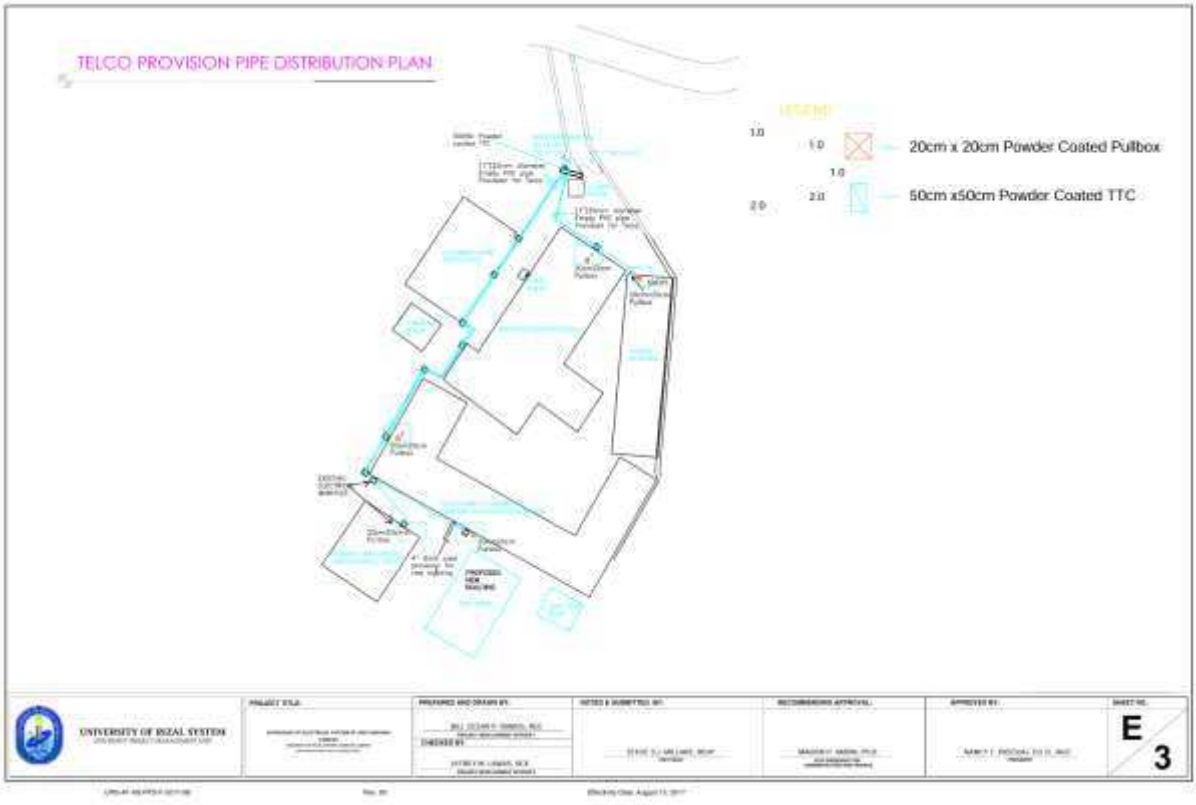
The contractor shall guarantee the completed structure against defects and failure for its satisfactory performance vis-à-vis the prescribed Minimum Performance Standards and Specifications (MPSS) during the lifetime of the structure.

Section VII. Drawings

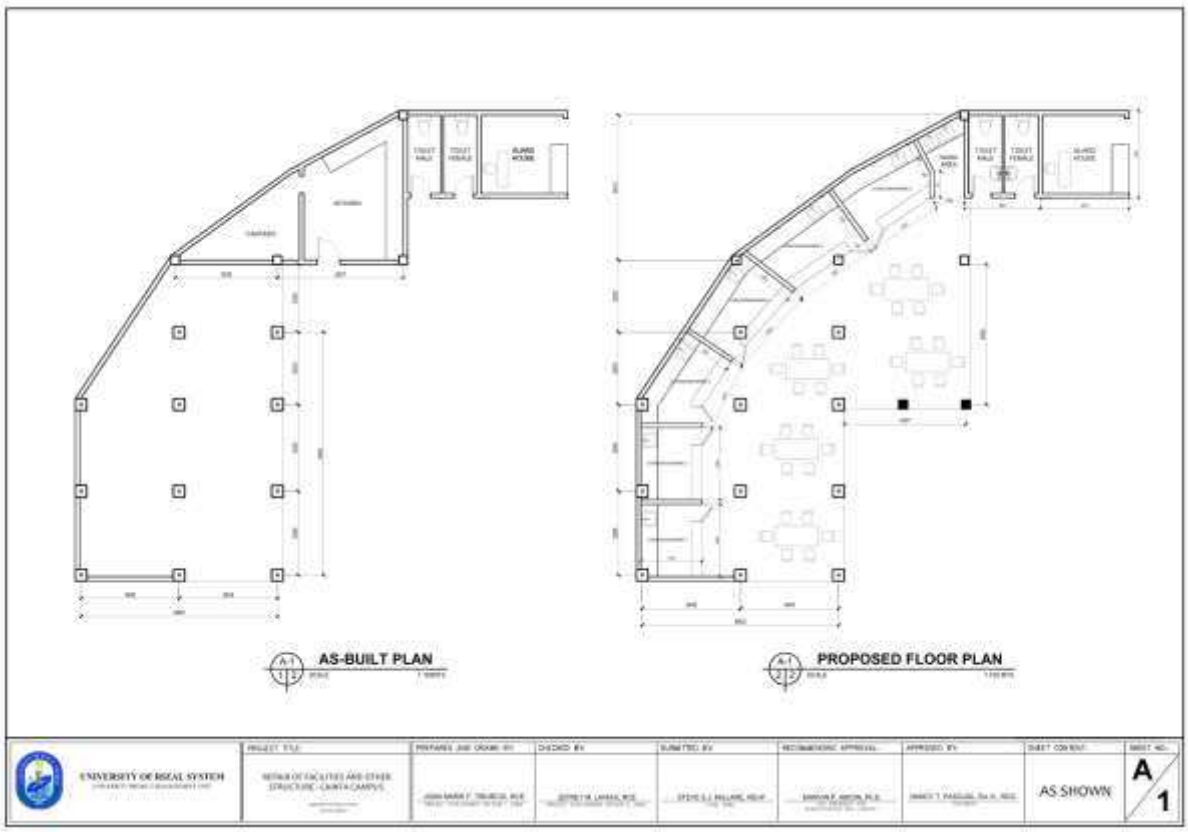
Lot 1(Upgrading of Electrical System-Cardona Campus)

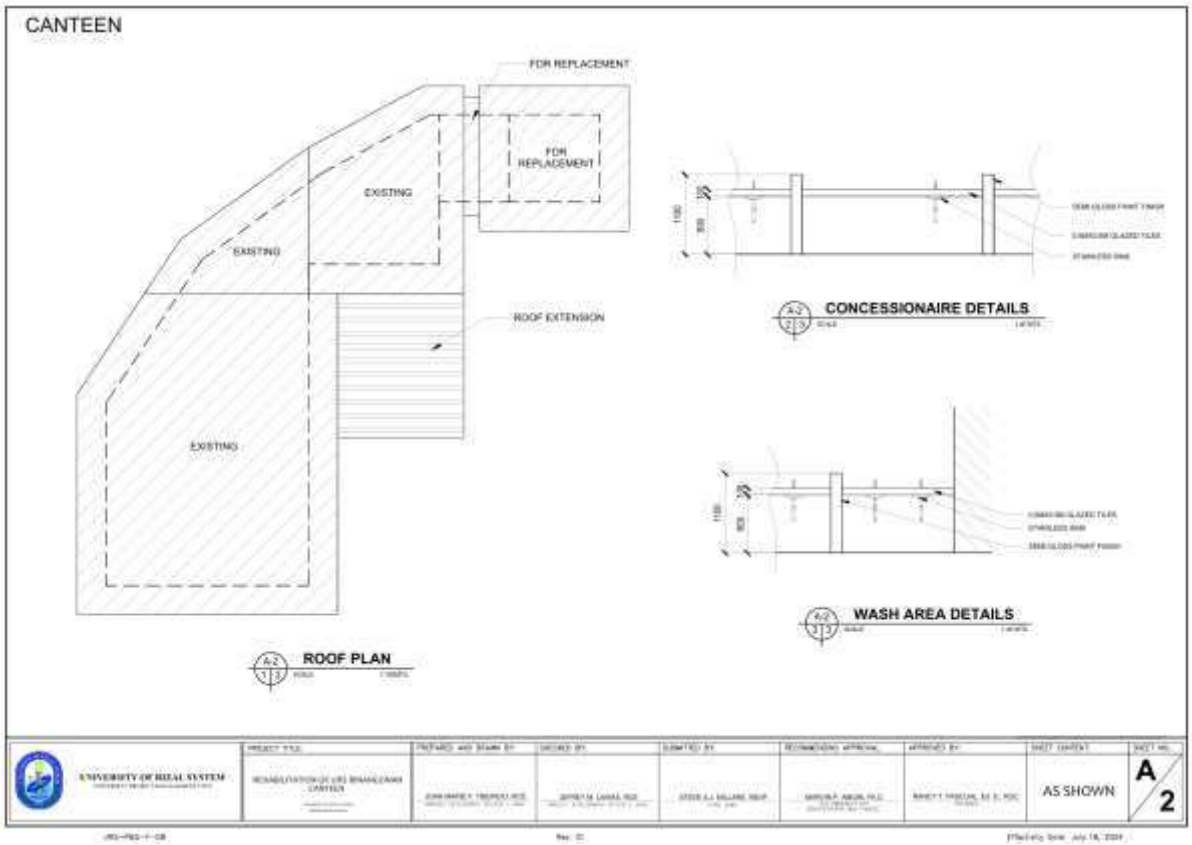





TELCO PROVISION PIPE DISTRIBUTION PLAN
20cm x 20cm Powder Coated Pullbox
50cm x50cm Powder Coated TTC
UNIVERSITY OF RIZAL SYSTEM
E
3

Lot 2(Completion of Binangonan Canteen)





GUARD HOUSE

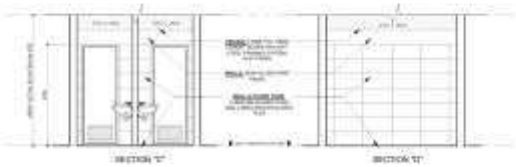
UNIVERSITY OF RIZAL SYSTEM	PROJECT TITLE: REHABILITATION OF UR'S BARANGGAY CANTEEN	PREPARED AND DRAWN BY:	CHECKED BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT: AS SHOWN	SHEET NO.: A/3

TOILET

TOP VIEW

REFLECTED CEILING PLAN

SECTION "A" SECTION "B"



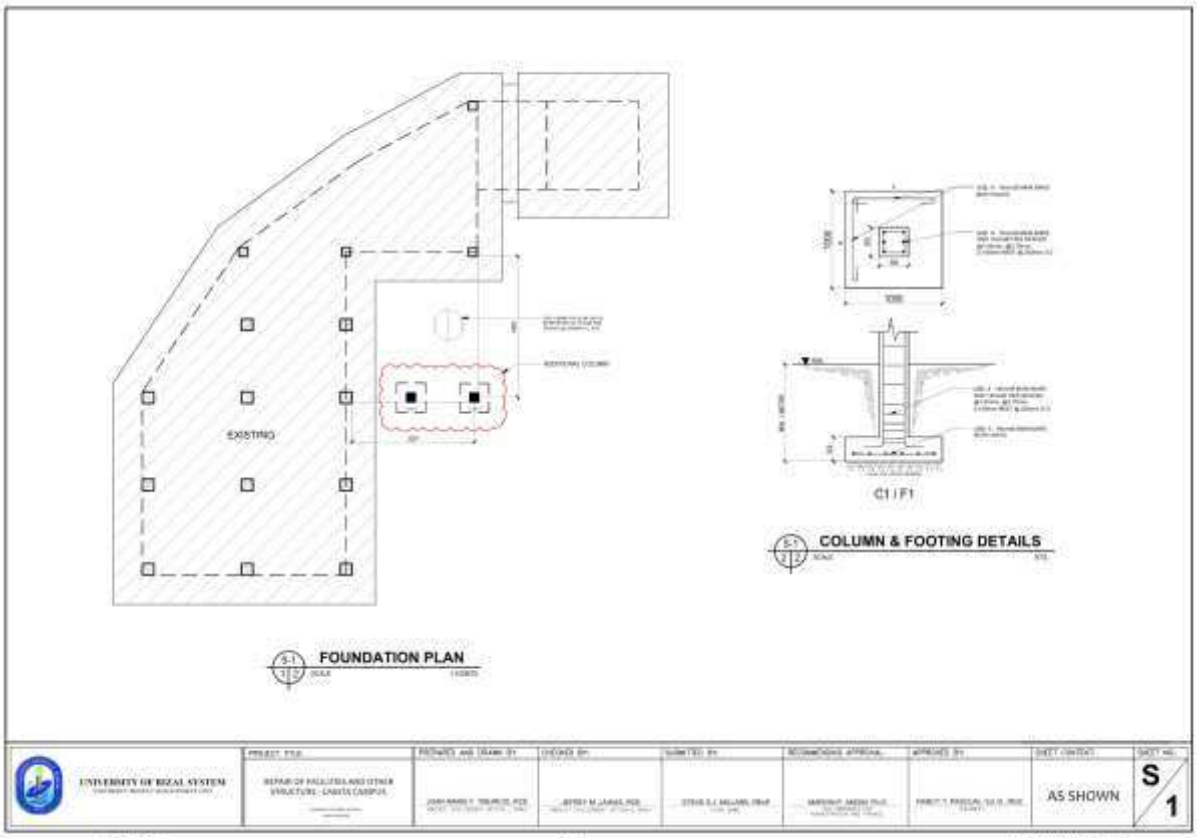
SECTION "C" SECTION "D"

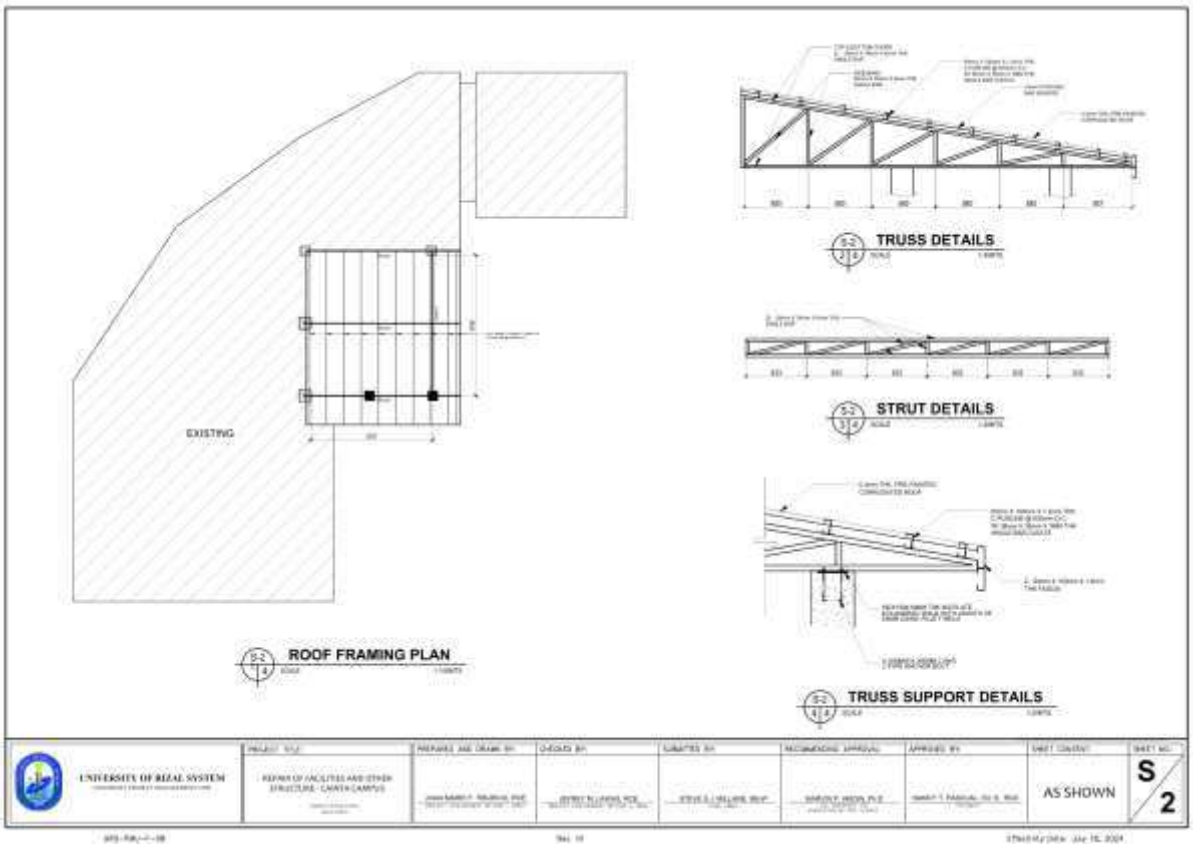
TAG	D1
LOCATION	TOILET
TYPE	1 LEAF, SINGLE SWING, TAB, WOOD FLUSH DOOR WITH LOUVER, 2"X8" STEEL DOOR JAMB, Gauge #24
HARDWARE	BALL BEARING BRASS LEVER HANDLE WITH LOCKSET
REMARKS	2 SETS

A-4 / 1 / 2 DOOR SCHEDULE

A-4 / 2 / 1 TOILET DETAILS

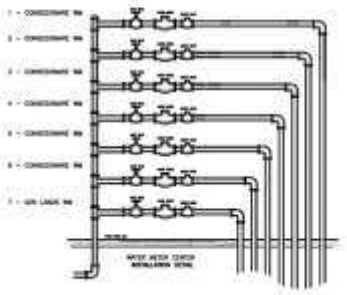
UNIVERSITY OF RIZAL SYSTEM	PROJECT TITLE: REPAIR OF FACILITIES AND OTHER STRUCTURE - CAINTA CAMPUS	PREPARED AND DRAWN BY:	CHECKED BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT: AS SHOWN	SHEET NO.: A/4


EXISTING
C1 / F1
S-1
FOUNDATION PLAN
S-1
COLUMN & FOOTING DETAILS
UNIVERSITY OF RIZAL SYSTEM
AS SHOWN
S
1


EXISTING
S-2
ROOF FRAMING PLAN
S-2
TRUSS DETAILS
S-2
STRUT DETAILS
S-2
TRUSS SUPPORT DETAILS
UNIVERSITY OF RIZAL SYSTEM
AS SHOWN
S
2

LEGEND

CV	CHECK VALVE
GV	GATE VALVE
WM	WATER METER
CWL	COLD WATER LINE

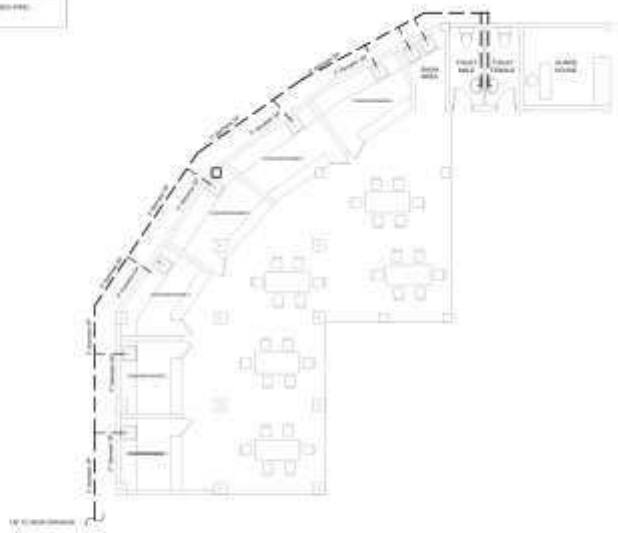


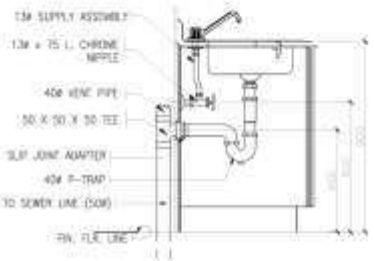
WATER METER CENTER DETAILS

WATERLINE LAYOUT

UNIVERSITY OF RIZAL SYSTEM	REHABILITATION OF URS BINANGONAN CAMPUS					AS SHOWN	P 1

LEGEND

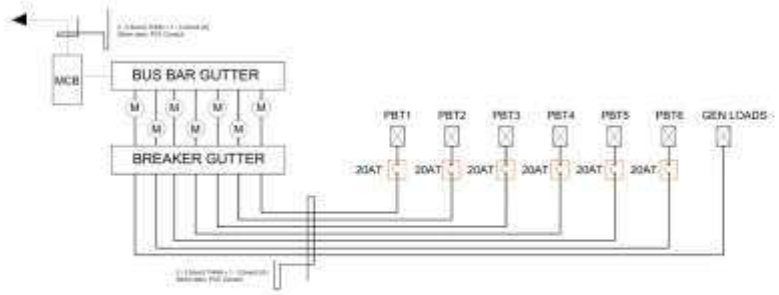




SINK DETAILS

SEWER LINE LAYOUT

UNIVERSITY OF RIZAL SYSTEM	REHABILITATION OF URS BINANGONAN CAMPUS					AS SHOWN	P 2



E-1 SINGLE LINE DIAGRAM

URS BINANGONAN CANTEEN								
CKT NO	LOAD DESCRIPTION	VA	VOLT	AMP	AT	P	SIZE OF WIRE	SIZE OF CONDUIT
1	TENANT 1	860	230	1.565217	20	2	2-3.5mm² THHN + 1 -3.5mm² THHN(G)	20mm diameter PVC
2	TENANT 2	860	230	1.565217	20	2	2-3.5mm² THHN + 1 -3.5mm² THHN(G)	20mm diameter PVC
3	TENANT 3	860	230	1.565217	20	2	2-3.5mm² THHN + 1 -3.5mm² THHN(G)	20mm diameter PVC
4	TENANT 4	860	230	1.565217	20	2	2-3.5mm² THHN + 1 -3.5mm² THHN(G)	20mm diameter PVC
5	TENANT 5	860	230	1.565217	20	2	2-3.5mm² THHN + 1 -3.5mm² THHN(G)	20mm diameter PVC
6	TENANT 6	860	230	1.565217	20	2	2-3.5mm² THHN + 1 -3.5mm² THHN(G)	20mm diameter PVC
7	GENERAL LOADINGS	500	230	2.173913	20	2	2-3.5mm² THHN + 1 -3.5mm² THHN(G)	20mm diameter PVC
8	SPARE							
				11.56522				

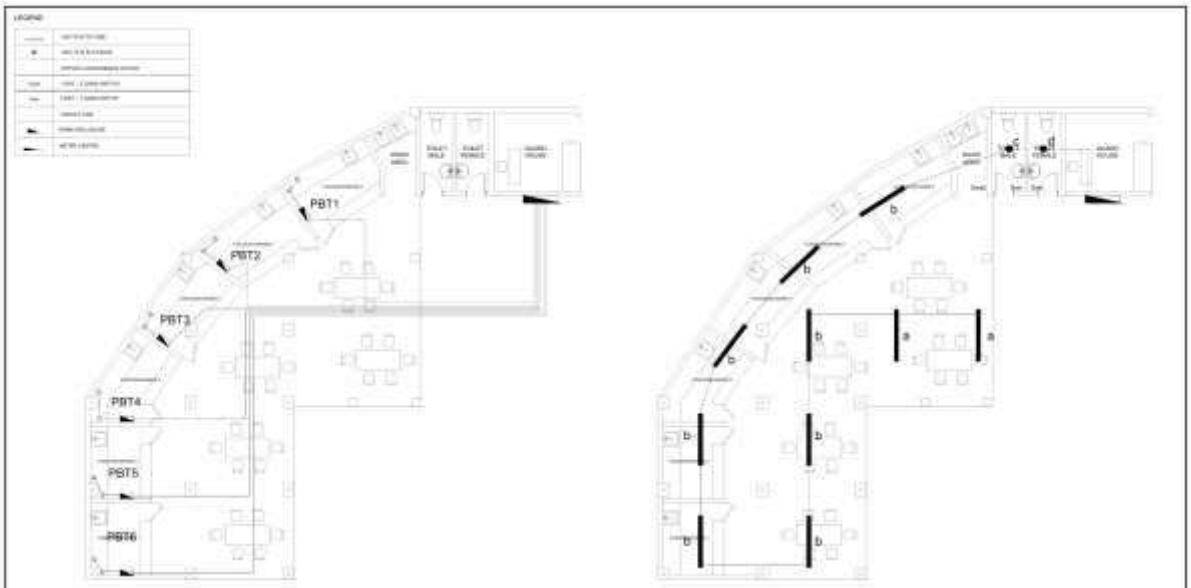
USE:

IT = 80%OF(SL)+ 25%(HM)
80%(11.56522)+25%(0) = 9.2522

MAIN SIZE OF WIRE : 2 - 5.5mm² THHN + 1 -3.5mm² THHN(G)
MAIN SIZE OF CONDUIT : 25mm diameter PVC
MAIN SIZE OF CIRCUIT BREAKER: 30AT, 2P, 240V, MCCB

E-1 LOADING SCHEDULE

UNIVERSITY OF RIZAL SYSTEM	PROJECT TITLE: REHABILITATION OF URS BINANGONAN CANTEEN	PREPARED AND DRAWN BY:	CHECKED BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT: AS SHOWN	SHEET NO.: E/1



E-2 POWER LAYOUT

E-2 LIGHTING LAYOUT

UNIVERSITY OF RIZAL SYSTEM	PROJECT TITLE: REHABILITATION OF URS BINANGONAN CANTEEN	PREPARED AND DRAWN BY:	CHECKED BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT: AS SHOWN	SHEET NO.: E/2

Section VIII. Bill of Quantities

Notes on the Bill of Quantities

Objectives

The objectives of the Bill of Quantities are:

a. to provide sufficient information on the quantities of Works to be performed to enable Bids to be prepared efficiently and accurately; and

b. when a Contract has been entered into, to provide a priced Bill of Quantities for use in the periodic valuation of Works executed.

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

Daywork Schedule

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

a. A list of the various classes of labor, materials, and Constructional Plant for which basic daywork rates or prices are to be inserted by the Bidder, together with a statement of the conditions under which the Contractor will be paid for work executed on a daywork basis.

b. Nominal quantities for each item of Daywork, to be priced by each Bidder at Daywork rates as Bid. The rate to be entered by the Bidder against each basic Daywork item should include the Contractor's profit, overheads, supervision, and other charges.

Provisional Sums

A general provision for physical contingencies (quantity overruns) may be made by including a provisional sum in the Summary Bill of Quantities. Similarly, a contingency allowance for possible price increases should be provided as a provisional sum in the Summary Bill of Quantities. The inclusion of such provisional sums often facilitates budgetary approval by avoiding the need to request periodic supplementary approvals as the future need arises. Where such provisional sums or contingency allowances are used, the

SCC should state the manner in which they will be used, and under whose authority (usually the Procuring Entity's Representative's).

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

Signature Box

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

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

BILL OF QUANTITIES FOR UPGRADING OF ELECTRICAL SYTEM-CARDONA CAMPUS (LOT 1)

Contractor

BILL OF QUANTITIES

Project: UPGRADING OF ELECTRICAL SYSTEM OF URS CARDONA CAMPUS

Location: URS CARDONA CAMPUS

ITEM	WORK DESCRIPTION	QUANTITY	UNIT	UNIT COST (PHP)		COST (PHP)		TOTAL (PHP)
				MATERIAL	LABOR	MATERIAL	LABOR	
Part A	**General Requirements**							
A.1.	Mobilization/Demobilization	1.00	Lot	-	-	-	-	-
A.2.	Temporary Facilities	1.00	Lot	-	-	-	-	-
A.3.	Occupational Safety and Health Program	1.00	Lot	-	-	-	-	-
A.4	Billboard	1.00	Lot	-	-	-	-	-
	SUB TOTAL I							**-**
Part B	**Electrical works**	-	-	-	-	-	-	-
B.1.	**WIRES**	-	-	-	-	-	-	-
	3.5mm² THHN/THWN,(Copper)	3.00	box	-	-	-	-	-
	5.5mm² THHN/THWN , (Copper)	3.00	box	-	-	-	-	-
	8.0mm² THHN/THWN, (Copper)	90.00	m	-	-	-	-	-
	14mm² THHN/THWN, (Copper)	2.00	box	-	-	-	-	-
	30mm² THHN/THWN, (Copper)	150.00	m	-	-	-	-	-
	50mm² THHN/THWN, (Copper)	60.00	m	-	-	-	-	-
	80mm² THHN/THWN, (Copper)	225.00	m	-	-	-	-	-
	250mm² THHN/THWN, (Copper) - Service Entrance	80.00	m	-	-	-	-	-
	CONDUIT	-		-	-	-	-	-
	(1/2")20mm Diameter PVC Pipe	46.00	length	-	-	-	-	-
	(1")32mm Diameter PVC Pipe	58.00	length	-	-	-	-	-
	(1 -1/2")50mm Diameter PVC Pipe	25.00	length	-	-	-	-	-
	(2")63mm Diameter PVC Pipe	12.00	length	-	-	-	-	-
	(4")110mm Diameter PVC Pipe	95.00	length	-	-	-	-	-
	(2")63mm Diameter RSC Pipe - Service Entrance	2.00	length	-	-	-	-	-
	(4")110mm Diameter RSC Pipe - Service Entrance	2.00	length	-	-	-	-	-
	FITTINGS/CONNECTORS	-	-	-	-	-	-	-
	(1/2")20mm Diameter PVC Male Adapter	7.00	pc(s)	-	-	-	-	-
	(1/2")20mm Diameter PVC Coupling	23.00	pc(s)	-	-	-	-	-
	(1/2")20mm Diameter PVC Elbow	20.00	pc(s)	-	-	-	-	-
	(1/2")20mm Diameter Conduit Clamp	40.00	pc(s)	-	-	-	-	-
	(1/2")20mm Diameter Locknut	7.00	pc(s)	-	-	-	-	-
	(1")32mm Diameter PVC Male Adapter	2.00	pc(s)	-	-	-	-	-
	(1")32mm Diameter PVC Coupling	20.00	pc(s)	-	-	-	-	-
	(1")32mm Diameter Conduit Clamp	30.00	pc(s)	-	-	-	-	-
	(1")32mm Diameter Locknut	2.00	pc(s)	-	-	-	-	-
	(1 -1/2")50mm Diameter PVC Elbow	4.00	pc(s)	-	-	-	-	-
	(1 -1/2")50mm Diameter Conduit Clamp	10.00	pc(s)	-	-	-	-	-
	(4")110mm Diameter Conduit Clamp	50.00	pc(s)	-	-	-	-	-
	(4")110mm Diameter RSC Locknut	2.00	pc(s)	-	-	-	-	-
	(4")110mm Diameter RSC Adapter	2.00	pc(s)	-	-	-	-	-
	(4")110mm Diameter RSC Coupling	2.00	pc(s)	-	-	-	-	-
	(4")110mm Diameter RSC Elbow	12.00	pc(s)	-	-	-	-	-
	(4")110mm Diameter RSC Conduit Clamp(Galvanized)	3.00	pc(s)	-	-	-	-	-
	ACCESSORIES	-	-	-	-	-	-	-
	(4") Service Entrance Cap 1	1.00	pc(s)	-	-	-	-	-
	(2") Service Entrance Cap 1	1.00	pc(s)	-	-	-	-	-
	(5/8 ")diameter Grounding Rod	1.00	pc(s)	-	-	-	-	-
	(5/8 ")diameter Grounding Clamp	1.00	pc(s)	-	-	-	-	-
	Other Supports and accessories for CT and KW HR meter	1.00	lot	-	-	-	-	-

	BREAKERS/ PANEL BOARD/ GUTTER/ (NEMA)BOX ENCLOSURE/	-		-	-	-	-	-
	400AT,500AF, 3P MCCB (ECB)W/ (Nema 4X) Enclosure	1.00	Assy.	-	-	-	-	-
	8 Branch,Bolt Type MCCB Panel Distribution Board, 400 AT, 500AF, 3P MCCB- Main 150AT, 225AF,2P MCCB- Branches (Admin Building) 200AT, 225AF,3P MCCB-Branches (Fishery Building) 100AT, 225AF, 2P MCCB- Branches(SMDP 3) 60AT, 225AF, 2P MCCB- Branches(SMDP 4) 200AT, 225AF, 3P MCCB- (SMPD5 Provision) 150AT, 225AF, 3P MCCB- (SMPD6 Provision)	1.00	Assy.	-	-	-	-	-
	8 Branch,Bolt Type MCCB Panel Distribution Board, (SMDP3) 100AT, 225AF, 2P MCCB- Main 60AT, 225AF, 2P MCCB- Main 60AT, 100AF, 2P MCCB-Branches 50AT, 100AF, 2P MCCB-Branches 30AT,50AF,2P MCCB-(Proposed ACU for Library) 30AT,50AF,2P MCCB-(Proposed ACU for Guidance) SPARE SPARE	1.00	Assy.	-	-	-	-	-
	40AT, 50AF, 3P MCCB w / NEMA 3R For Fish Processing Motors	4.00	pc(s)	-	-	-	-	-
	U. box and Convenience Outlets (Motors and Exhaust Fan)	1.00	lot	-	-	-	-	-
	CONSUMABLES	-	0.00	-	-	-	-	-
	Tox and Screw	150.00	pc(s)	-	-	-	-	-
	Electrical Tape(big)	50.00	pc(s)	-	-	-	-	-
	Masking type(big)	10.00	pc(s)	-	-	-	-	-
	Cable Tie Big(300 pcs per pack)	5.00	pack	-	-	-	-	-
	10mm X 3 inch Tox Screw	30.00	pc(s)	-	-	-	-	-
	Neltex (PVC Solvent)	2.00	liter	-	-	-	-	-
	20cmx20cm Powder Coated Pullbox	5.00	pcs	-	-	-	-	-
	TESTING AND COMISSIONNING	-		-	-	-	-	-
	Insulation Resistance Test Earth and Ground Test Energization Voltage Test No Load Current Test Full Load Current Test Phase Sequence Test	1.00	Lot	-	-	-	-	-
	CIVIL WORKS/ SITE WORKS	-		-	-	-	-	-
	MDP wall with Stainless Grill Enclosure and Roof Canopy	1.00	Lot	-	-	-	-	-
	Dismantling of Old Service Entrance and Electrical Service Drop to Admin Building, Covered Court and Existing Building for Demolition	1.00	Lot	-	-	-	-	-
	Excavation/Backfilling/ Lean concrete works	1.00	Lot	-	-	-	-	-
	50X 50 inner Opening Concrete Pullbox w / Square B.I Chekered Plate Cover.	1.00	Lot.	-	-	-	-	-
	30x30 Concrete Pullbox w/ Square B.I Chekered Plate Cover.	1.00	Lot.	-	-	-	-	-
	SUB TOTAL II							**-**
						TOTAL DIRECT COST		**-**
						PROFIT (10% of a)		-
						OCM(15% of a)		-
						VAT 5%(a+b+c)		-
						TOTAL PROJECT COST		**-**

BILL OF QUANTITIES FOR COMPLETION OF CANTEEN-BINANGONAN CAMPUS (LOT 2)

Contractor	

BILL OF QUANTITIES

Project:	Rehabilitation of URS Binangonan Canteen
Location:	URS Binangonan Campus

ITEM	WORK DESCRIPTION	QUANTITY	UNIT	UNIT COST (PHP)		COST (PHP)		TOTAL (PHP)
				MATERIAL	LABOR	MATERIAL	LABOR	
I	**GENERAL REQUIREMENTS**							
	Project Billboard/ Sign Board	1.00	lot	-	-	-	-	-
	Temporary Facility	1.00	lot	-	-	-	-	-
	Mobilization/Demobilization	1.00	lot	-	-	-	-	-
	Permits & Clearances	1.00	lot	-	-	-	-	-
	Occupational Safety and Health Program	1.00	lot	-	-	-	-	-
	SUB-TOTAL I							**-**
II	**CANTEEN**							
a.	**Siteworks**							
	Demolition and Disposal of Existing wall and Kitchen							
	Skilled Worker	40.00	man-hour	-	-	-	-	-
	Unskilled Worker	160.00	man-hour	-	-	-	-	-
	Removal and Disposal of Gutter							
	Skilled Worker	8.00	man-hour	-	-	-	-	-
	Unskilled Worker	16.00	man-hour	-	-	-	-	-
	Structure Excavation							
	Unskilled Worker	48.00	man-hour	-	-	-	-	-
	Embankment from Structure Excavation							
	Unskilled Worker	8.00	man-hour	-	-	-	-	-
b.	**Concrete Works (Structural)**							
	Cement	36.00	bags	-	-	-	-	-
	Sand	2.00	cu.m	-	-	-	-	-
	Gravel	4.00	cu.m	-	-	-	-	-
	16mmø RSB	18.00	pcs	-	-	-	-	-
	10mmø RSB	31.00	pcs	-	-	-	-	-
	#16 G.I. wire	4.00	kgs	-	-	-	-	-
c.	**Formworks**							
	Phenolic Board (0.019x1.2x2.4)	2.00	pcs	-	-	-	-	-
	Good Lumber	32.00	bd.ft	-	-	-	-	-
	Consumables	1.00	lot	-	-	-	-	-
d.	**Masonry Works**							
	100mm thk CHB	220.00	pcs	-	-	-	-	-
	Cement	20.00	bags	-	-	-	-	-
	Sand	2.00	cu.m	-	-	-	-	-
	10mmø RSB	16.00	pcs	-	-	-	-	-
	#16 G.I. wire	1.00	kg	-	-	-	-	-
e.	**Roof Works**							
	Steel Works							
	38mm x 38mm Angle Bar, 6mm thk.	33.00	pcs	-	-	-	-	-
	50mmx 100mm C-Purlins, 1.2mm thk.	10.00	pcs	-	-	-	-	-
	50mmx 150mm C-Purlins, 1.2mm thk.	3.00	pcs	-	-	-	-	-
	38mm x 38mm Angle Bar, 3mm thk.	1.00	pc	-	-	-	-	-
	Base Plate, 10mm thk.	5.30	kgs	-	-	-	-	-
	Anchor Bolt, 16mmø	12.00	pcs	-	-	-	-	-
	Cutting Disc	5.00	pcs	-	-	-	-	-
	Grinding Disc	8.00	pcs	-	-	-	-	-
	Welding Rod	10.00	kgs	-	-	-	-	-
	Consumables	1.00	lot	-	-	-	-	-
	Tinsmithry Works							
	Pre-painted Corrugated Roof, 0.4mm thk	32.00	sq.m	-	-	-	-	-
	Tekscrew	320.00	pcs	-	-	-	-	-
	Pre-Painted Flashing, GA24 (0.701mm)	6.00	l.m	-	-	-	-	-
	Blind Rivets	1.00	box	-	-	-	-	-

f.	**Dry Wall Partition**							
	6mm Fiber Cement Board	18.00	pcs	-	-	-	-	-
	Metal Tracks	14.00	pcs	-	-	-	-	-
	Metal Studs	33.00	pcs	-	-	-	-	-
	Blind Rivet	6.00	boxes	-	-	-	-	-
	1" Metal Screw	100.00	pcs	-	-	-	-	-
g.	**Painting Works (Drywall partition, trusses, New CHB wall, new columns and Repainting of existing walls and columns)**							
	Flat Latex	14.00	liter	-	-	-	-	-
	Semi-gloss Latex	45.00	liter	-	-	-	-	-
	Skimcoat	7.00	bag	-	-	-	-	-
	All-purpose Epoxy A&B	1.00	liter	-	-	-	-	-
	Masonry Putty	18.00	liter	-	-	-	-	-
	Epoxy Primer	2.00	liter	-	-	-	-	-
	Epoxy Paint	3.00	liter	-	-	-	-	-
	Epoxy Reducer	1.00	liter	-	-	-	-	-
	Mesh Tape	2.00	pc	-	-	-	-	-
	Paint Brush	3.00	pc	-	-	-	-	-
	Paint Roller	3.00	pc	-	-	-	-	-
	Sanding paper	25.00	pcs	-	-	-	-	-
	Rugs, Cotton	0.50	kgs	-	-	-	-	-
h.	**Working Area (Counter With Sink)**							
	Concrete Works							
	Cement	13.00	bags	-	-	-	-	-
	Sand	1.00	cu.m	-	-	-	-	-
	Gravel	2.00	cu.m	-	-	-	-	-
	10mmø RSB	27.00	pcs	-	-	-	-	-
	#16 G.I. wire	3.00	kgs	-	-	-	-	-
	Formworks							
	Phenolic Board (0.019x1.2x2.4)	2.00	pcs	-	-	-	-	-
	Good Lumber	30.00	bd.ft	-	-	-	-	-
	Consumables	1.00	lot	-	-	-	-	-
	Tile Works							
	600mm x 600mm Glazed tiles	40.00	pcs	-	-	-	-	-
	Cement	4.00	bags	-	-	-	-	-
	Sand	0.32	cu.m	-	-	-	-	-
	Tile Adhesive	2.00	bags	-	-	-	-	-
	Tiles grout	2.00	bags	-	-	-	-	-
	Plumbing Fixtures and Accessories							
	Stainless Sink	8.00	pcs	-	-	-	-	-
	SUB-TOTAL II							**-**
III	**GUARD HOUSE**							
a.	**Demolition and Disposal Works**							
	Removal of Roof Panels, Gutter, Ceiling, Ceiling Eaves & Existing Wash Area							
	Skilled Worker	24.00	man-hour	-	-	-	-	-
	Unskilled Worker	80.00	man-hour	-	-	-	-	-
b.	**Painting of wall, ceiling, trusses & steel casement window**							
	Epoxy Primer	2.00	liter	-	-	-	-	-
	Epoxy Paint	3.00	liter	-	-	-	-	-
	Epoxy Reducer	1.00	liter	-	-	-	-	-
	Semi-gloss Latex	15.00	liter	-	-	-	-	-
	Masonry Putty	9.00	liter	-	-	-	-	-
	Glazing Putty	1.00	liter	-	-	-	-	-
	Flat Wall Enamel	1.00	liter	-	-	-	-	-
	Quick Dry Enamel	2.00	liter	-	-	-	-	-
	Paint Thinner	2.00	liter	-	-	-	-	-
	Paint Brush	3.00	pcs	-	-	-	-	-
	Paint Roller	3.00	pcs	-	-	-	-	-
	Sanding paper	20.00	pcs	-	-	-	-	-
	Consumables	1.00	lot	-	-	-	-	-

c.	**Tinsmithry Works**							
	Pre-painted Corrugated Roof, 0.4mm thk	23.00	sq.m	-	-	-	-	-
	Tekscrew	230.00	pcs	-	-	-	-	-
	5mm thk. P.E. foam insulation	23.00	l.m	-	-	-	-	-
	Pre-painted Hip Roll	15.00	l.m	-	-	-	-	-
	Blind Rivets	4.00	box	-	-	-	-	-
	Spandrel Eaves with vent	122.00	l.m	-	-	-	-	-
	Pre-painted End Moulding	40.00	l.m	-	-	-	-	-
	Consumables	1.00	lot	-	-	-	-	-
d.	**Ceiling Works**							
	4.5mm Fiber Cement Board	3.00	pcs	-	-	-	-	-
	Metal Furring	10.00	pcs	-	-	-	-	-
	Carrying Channel	3.00	pcs	-	-	-	-	-
	Hanger Rod/Bars	9.00	pcs	-	-	-	-	-
	Channel Clip	49.00	pcs	-	-	-	-	-
	Wall Angle	4.00	pcs	-	-	-	-	-
	Blind Rivet	1.00	box	-	-	-	-	-
	1" Metal Screw	33.00	pcs	-	-	-	-	-
	SUB-TOTAL III							**-**
IV	**TOILET**							
a.	**Chipping, Demolition and Disposal Works**							
	Removal of Roof Panels							
	Skilled Worker	8.00	man-hour	-	-	-	-	-
	Unskilled Worker	16.00	man-hour	-	-	-	-	-
	Removal of Existing Wash Area							
	Unskilled Worker	16.00	man-hour	-	-	-	-	-
	Chipping of Tiles & Removal of Interior Partition, Doors and Fixtures							
	Skilled Worker	24.00	man-hour	-	-	-	-	-
	Unskilled Worker	48.00	man-hour	-	-	-	-	-
b.	**Painting of walls, ceiling, doors, door jamb, trusses & steel casement window**							
	Epoxy Primer	1.00	liter	-	-	-	-	-
	Epoxy Paint	2.00	liter	-	-	-	-	-
	Epoxy Reducer	1.00	liter	-	-	-	-	-
	Semi-gloss Latex	7.00	liter	-	-	-	-	-
	Masonry Putty	4.00	liter	-	-	-	-	-
	Glazing Putty	3.00	liter	-	-	-	-	-
	Flat Wall Enamel	2.00	liter	-	-	-	-	-
	Quick Dry Enamel	4.00	liter	-	-	-	-	-
	Paint Thinner	4.00	liter	-	-	-	-	-
	Paint Brush	3.00	pcs	-	-	-	-	-
	Paint Roller	3.00	pcs	-	-	-	-	-
	Sanding paper	15.00	pcs	-	-	-	-	-
	Consumables	1.00	lot	-	-	-	-	-
c.	**Tinsmithry Works**							
	Pre-painted Corrugated Roof, 0.4mm thk	10.71	sq.m	-	-	-	-	-
	Tekscrew	108.00	pcs	-	-	-	-	-
	5mm thk. P.E. foam insulation	14.00	l.m	-	-	-	-	-
	Pre-Painted Wall Flashing	9.00	l.m	-	-	-	-	-
	Blind Rivets	1.00	box	-	-	-	-	-
	Spandrel Eaves with vent	20.00	l.m	-	-	-	-	-
	Pre-painted End Moulding	12.00	l.m	-	-	-	-	-
	Consumables	1.00	lot	-	-	-	-	-
d.	**Door**							
	Male							
	Flush Hollow Core Door with Louver	1.47	sq.m	-	-	-	-	-
	Lever type lockset	1.00	set	-	-	-	-	-
	S/S Heavy Duty Hinge	3.00	sets	-	-	-	-	-
	Steel Jamb	5.00	lm	-	-	-	-	-
	Female							
	Flush Hollow Core Door with Louver	1.47	sq.m	-	-	-	-	-
	Lever type lockset	1.00	set	-	-	-	-	-
	S/S Heavy Duty Hinge	3.00	sets	-	-	-	-	-
	Steel Jamb	5.00	lm	-	-	-	-	-

e.	**Tile Works**							
	300mm x 300mm Non glazed tiles	76.00	pcs	-	-	-	-	-
	300mm x 600mm Glazed tiles	178.00	pcs	-	-	-	-	-
	Cement	13.00	bags	-	-	-	-	-
	Sand	1.00	cu.m	-	-	-	-	-
	Tile Adhesive	6.00	bags	-	-	-	-	-
	Tiles grout	5.00	bags	-	-	-	-	-
f.	**Ceiling Works**							
	4.5mm Fiber Cement Board	3.00	pcs	-	-	-	-	-
	Metal Furring	8.00	pcs	-	-	-	-	-
	Carrying Channel	3.00	pcs	-	-	-	-	-
	Hanger Rod/Bars	7.00	pcs	-	-	-	-	-
	Channel Clip	41.00	pcs	-	-	-	-	-
	Wall Angle	6.00	pcs	-	-	-	-	-
	Blind Rivet	1.00	box	-	-	-	-	-
	1" Metal Screw	28.00	pcs	-	-	-	-	-
g.	**Plumbing Fixtures and Accessories**							
	Water closet, complete w/ fittings & accs.	2.00	sets	-	-	-	-	-
	Lavatory, complete w/ fittings & accs.	2.00	sets	-	-	-	-	-
	Vanity Mirror	1.00	set	-	-	-	-	-
	Hand Bidet	2.00	pcs	-	-	-	-	-
	Lavatory Faucet	2.00	pcs	-	-	-	-	-
	Wall Faucet	2.00	pcs	-	-	-	-	-
	Tissue Holder	1.00	pc	-	-	-	-	-
	Floor Drain	2.00	pcs	-	-	-	-	-
	SUB-TOTAL IV							**-**
V	**Electrical Works**							
a.	**Lighting fixtures**							
	18 W LED (T8 TUBE AND BOX SET)	10.00	pcs	-	-	-	-	-
	15 W LED Flat Bulb	4.00	pcs	-	-	-	-	-
b.	**Switches, Convenience outlet Device and Box**							
	1 way 2 Gang Switch	1.00	pcs	-	-	-	-	-
	1 way 1 Gang Switch	2.00	pcs	-	-	-	-	-
	Duplex Convenience Outlet	12.00	pcs	-	-	-	-	-
	J .Box	18.00	pcs	-	-	-	-	-
	U. Box	24.00	pcs	-	-	-	-	-
c.	**Wire and Conduit**							
	5.5mm² THHN wire	50.00	m	-	-	-	-	-
	3.5mm² THHN wire	3.00	Box	-	-	-	-	-
	20mm diam. PVC Conduit	50.00	pcs	-	-	-	-	-
	32mm diam. PVC Conduit	6.00	pcs	-	-	-	-	-
d.	**Meter Center w /complete accessories, circuit breakers, bus bar and gutters**							
	(1 - 30AT, 2P, 240V MCCB) - Main (7- 20AT, 2P,240V MCCB) - Branches (Meter Center) (7 - I - 210 FM 1S OR 2S) - Digital Kwhr Meter (7- 20AT, 2P, 240V MCCB w/ enclosure - Branches (Tenant Side)	1.00	assy.	-	-	-	-	-
e.	**Consumables**			-				
	Electrical Tape, PVC Solvent, Adaptors and Fittings, Hangers and Support.	1.00	lot	-	-	-	-	-
	Testing and Comissioning Works	1.00	lot	-	-	-	-	-
	SUB-TOTAL V							**-**
VI	**Waterline Works**							
a.	**PPR Pipes, Blue Pipe, Gave Valves and Fittings**							
	(3/4") 25 mm diam. PPR PN 20	1.00	pcs	-	-	-	-	-
	(3/4") 20 mm diam. Blue Pipe	2.00	pcs	-	-	-	-	-
	(1/2 ") 20 mm diam. PPR PN 20	30.00	pcs	-	-	-	-	-
	(1/2 ") 20 mm diam. PPR Coupling	20.00	pcs	-	-	-	-	-
	(1/2") 20 mm diam. PPR Elbow	20.00	pcs	-	-	-	-	-
	(3/4" x 1/2") PPR Tee	8.00	pcs	-	-	-	-	-
	(1/2") 20 mm diam. Equal PPR Tee	18.00	pcs	-	-	-	-	-
	(3/4") 20 mm diam. PVC Blue Tee	2.00	pcs	-	-	-	-	-
	(3/4") 20 mm diam. PVC Blue Male Adapter							
	(3/4") 20 mm diam. PPR Female Adapter	1.00	pcs	-	-	-	-	-
	(1/2") 20 mm diam. PPR Gatevalve	20.00	pcs	-	-	-	-	-
	(1/2") 20 mm diam. Check Valve	7.00	pcs	-	-	-	-	-
	(3/4") 25 mm diam. End Cap	1.00	pcs	-	-	-	-	-
b.	**Water Meter**							
	Water Meter Set with Complete Accessories and Fittings	7.00	set	-	-	-	-	-
c.	**Consumables and Supports**							
	(1/2") 20 mm diam. PPR Clamp	1.00	lot	-	-	-	-	-
d.	**Testing and Comissioning Works**				-	-	-	-
	Hydro Pressure Test (Pump Operated w/ Pressured Gau	1.00	lot	-	-	-	-	-
	SUB-TOTAL VI							**-**

VII	**Plumbing Works**							
a.	**PVC Pipes and Fittings**							
	3" diameter PVC Pipes	14.00	pcs	-	-	-	-	-
	2" diameter PVC Pipes	8.00	pcs	-	-	-	-	-
	2" P-Trap	10.00	pcs	-	-	-	-	-
	2"x2" Equal Tee	10.00	pcs	-	-	-	-	-
	3"x2" Reducing Tee	10.00	pcs	-	-	-	-	-
	2" Elbow 45 deg	10.00	pcs	-	-	-	-	-
	3" Elbow 45 deg	4.00	pcs	-	-	-	-	-
	3" diam PVC Coupling	10.00	pcs	-	-	-	-	-
b.	**Consumables and Supports**				-			
	PVC Solvent 400cc	2.00	can	-	-	-	-	-
	Clamps/ Hangers /Adapters	1.00	lot	-	-	-	-	-
c.	**Testing and Comissioning Works**							
	Leak Test	1.00	lot	-	-	-	-	-
	SUB-TOTAL VII							**-**
TOTAL DIRECT COST								**-**
OVERHEAD, CONTINGENCIES AND MISCELLANEOUS (OCM)						10%	of DC	-
CONTRACTOR'S PROFIT						8%	of DC	-
VAT (5% OF THE SUM OF DC, OCM AND PROFIT)						5%	of DC, OCM, PROFIT	-
TOTAL PROJECT COST								**-**

Section IX. Checklist of Technical and Financial Documents

Notes on the Checklist of Technical and Financial Documents

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

a. GPPB Resolution No. 09-2020 on the efficient procurement measures during a State of Calamity or other similar issuances that shall allow the use of alternate documents in lieu of the mandated requirements; or

b. any subsequent GPPB issuances adjusting the documentary requirements after the effectivity of the adoption of the PBDs.

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

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE	
Class "A" Documents	
Legal Documents	
☐	(a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages) in accordance with Section 8.5.2 of the IRR;
Technical Documents	
☐	(b) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid; **and**
☐	(c) Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided under the rules; **and**
☐	(d) Special PCAB License in case of Joint Ventures **and** registration for the type and cost of the contract to be bid; **and**
☐	(e) Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission **or** original copy of Notarized Bid Securing Declaration; **and**
	(f) Project Requirements, which shall include the following:
☐	a. Organizational chart for the contract to be bid;
☐	b. List of contractor's key personnel (*e.g.*, Project Manager, Project Engineers, Materials Engineers, and Foremen), to be assigned to the contract to be bid, with their complete qualification and experience data;
☐	c. List of contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership or certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be; **and**
☐	(g) Original duly signed Omnibus Sworn Statement (OSS) **and** if applicable, Original Notarized Secretary's Certificate in case of a corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder.
Financial Documents	
☐	(h) The prospective bidder's computation of Net Financial Contracting Capacity (NFCC).
Class "B" Documents	

☐	(i)	If applicable, duly signed joint venture agreement (JVA) in accordance with RA No. 4566 and its IRR in case the joint venture is already in existence **or** duly notarized statements from all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful.
II. FINANCIAL COMPONENT ENVELOPE		
☐	(j)	Original of duly signed and accomplished Financial Bid Form; **and**
Other documentary requirements under RA No. 9184		
☐	(k)	Original of duly signed Bid Prices in the Bill of Quantities; **and**
☐	(l)	Duly accomplished Detailed Estimates Form, including a summary shee indicating the unit prices of construction materials, labor rates, and equipmen rentals used in coming up with the Bid; **and**
☐	(m)	Cash Flow by Quarter.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