



Republic of the Philippine
TARLAC STATE UNIVERSITY
Romulo Blvd., San Vicente, Tarlac City
Tel. No.: (045) 982 4630
Website: www.tsu.edu.ph

Bidding Documents

(This Bidding Documents is in conformance with the Sixth Edition of the Philippine Bidding Documents for the Procurement of Infrastructure Projects)

For the Project

Refurbishment of College of Engineering Student Center

**With an Approved Budget for the Contract (ABC) of
Two Million Nine Hundred Ninety-Nine Thousand Six Hundred
Forty-Five and 07/100 Pesos (₱ 2,999,645.07)**

**Invitation to Bid No. Infra 01-005-2025
PhilGEPS Reference No.: 11728696**

**July 2020
6th Edition**

TABLE OF CONTENTS

Glossary of Terms, Abbreviations, and Acronyms	1
Section I. Invitation to Bid	3
Section II. Instructions to Bidders	5
1. Scope of Bid	5
2. Funding Information	5
3. Bidding Requirements	5
4. Corrupt, Fraudulent, Collusive, Coercive, and Obstructive Practices	5
5. Eligible Bidders	5
6. Origin of Associated Goods	6
7. Subcontracts	6
8. Pre-Bid Conference	6
9. Clarification and Amendment of Bidding Documents	6
10. Documents Comprising the Bid: Eligibility and Technical Components	6
11. Documents Comprising the Bid: Financial Component	7
12. Alternative Bids	7
13. Bid Prices	7
14. Bid and Payment Currencies	7
15. Bid Security	7
16. Sealing and Marking of Bids	8
17. Deadline for Submission of Bids	8
18. Opening and Preliminary Examination of Bids	8
19. Detailed Evaluation and Comparison of Bids	8
20. Post Qualification	8
21. Signing of the Contract	9
Section III. Bid Data Sheet	10
Section IV. General Conditions of Contract	12
1. Scope of Contract	12
2. Sectional Completion of Works	12
3. Possession of Site	12
4. The Contractor's Obligations	12
5. Performance Security	12
6. Site Investigation Reports	13
7. Warranty	13
8. Liability of the Contractor	13
9. Termination for Other Causes	13
10. Dayworks	13

11. Program of Works	13
12. Instructions, Inspections, and Audits	14
13. Advance Payment	14
14. Progress Payments	14
15. Operating and Maintenance Manuals	14
Section V. Special Conditions of Contract	15
Section VI. Specifications	16
Section VII. Drawings	27
Section VIII. Bill of Quantities	28
Section IX. Checklist of Technical and Financial Documents	31
Section X. Bidding Forms	33

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



Republic of the Philippine
TARLAC STATE UNIVERSITY
Romulo Blvd., San Vicente, Tarlac City
Tel. No.: (045) 982 4630
Website: www.tsu.edu.ph

INVITATION TO BID

For the Project

Refurbishment of College of Engineering Student Center

Invitation to Bid No. Infra 01-005-2025

1. The Tarlac State University, through **Special Budget (SB) 2025** intends to apply the sum of **Two Million Nine Hundred Ninety-Nine Thousand Six Hundred Forty-Five and 07/100 Pesos (₱ 2,999,645.07)** to payments under the contract for the project: **Refurbishment of College of Engineering Student Center**.

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

2. The Tarlac State University now invites bids for the aforementioned Project. Completion of the Works is required within **one hundred fifty (150) calendar days**. Bidders should have completed a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II. Instructions to Bidders.
3. Bidding will be conducted through open competitive bidding procedures using non- discretionary “pass/fail” criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.
4. Interested bidders may obtain further information regarding the bidding and inspect the Bidding Documents from 8:00 A.M. to 5:00 P.M., Tuesday to Friday starting on **February 06, 2025**, at this address:

Motorpool and Administration Building
Tarlac State University
Romulo Blvd., San Vicente, Tarlac City
Tel. No. (045) 606-8142 / 0998 846 0206
Email: bacsec@tsu.edu.ph

5. A complete set of Bidding Documents may be acquired by interested Bidders from **February 06, 2025, to February 26, 2025** from the aforementioned address upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of **₱ 5,000.00**.

It may also be downloaded free of charge from the website of the Philippine Government Electronic Procurement System (PhilGEPS) and the website of the Procuring Entity, provided that Bidders shall pay the applicable fee for the Bidding Documents not later than the submission of their bids.

6. The Tarlac State University will hold a Pre-Bid Conference on **February 14, 2025 (10:00 A.M.)** at the BAC Conference Room, 3rd Floor, Motorpool and Administration Building, Tarlac State University, Romulo Blvd., San Vicente, Tarlac City which shall be open to prospective bidders.
7. Three (3) copies of the bid proposals (one original, and additional copy 1 and 2) must be submitted to the BAC which must be duly received by the BAC Secretariat through manual submission at the office address indicated in the bidding documents, on **February 26, 2025 at 9:30 A.M.** Failure of bidders to comply with the said request of additional copies shall not be a ground for disqualification.

Late submission shall not be accepted.


Motorpool and Administration Building
 Tarlac State University
 Romulo Blvd., San Vicente, Tarlac City
 Tel. No. (045) 606-8142 / 0998 846 0206
 Email: bacsec@tsu.edu.ph

8. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in ITB Clause 14.
9. Bid opening shall be on **February 26, 2025, at 10:00 A.M.**, at the at the BAC Conference Room, 3rd Floor, Motorpool and Administration Building, Tarlac State University, Romulo Blvd., San Vicente, Tarlac City. Bids will be opened in the presence of the bidders' representatives who choose to attend.
10. The Summary of the procurement activities is as follows:

Activities	Date and Time	Venue
Date Posted to PhilGEPS	February 06, 2025	N/A
Pre-Bid Conference	February 14, 2025 (10:00 AM)	BAC Conference Room, 3 rd Floor, Motorpool and Administration Building, Tarlac State University, Romulo Blvd., San Vicente, Tarlac City
Deadline of Submission of Bids	February 26, 2025 (09:30 AM)	
Opening of Bids	February 26, 2025 (10:00 AM)	

11. The Tarlac State University reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 Revised IRR of RA 9184, without thereby incurring any liability to the affected bidder or bidders.
12. For further information, please refer to:

Ms. Jhenna Micah A. Manankil / Mr. Joshua Jonathan S. Jacinto
 BAC Secretariat
 Motorpool and Administration Building
 Tarlac State University
 Romulo Blvd., San Vicente, Tarlac City
 Tel. No. (045) 606-8142 / 0998 846 0206
 Email: bacsec@tsu.edu.ph

fr: 
DR. ERWIN P. LACANLALE
 BAC Chairperson – Infrastructure *AS*

Section II. Instructions to Bidders

1. Scope of Bid

1. The Procuring Entity, **Tarlac State University** invites Bids for the project: **Refurbishment of College of Engineering Student Center.** with Project Identification Number: Invitation to Bid No. **Infra 01-005-2025.**

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

2. Funding Information

- 2.1. The GOP through the source of funding as indicated below for **2025** in the amount of **₱ 2,999,645.07**
- 2.2. The source of funding is the **Special Budget.**

3. Bidding Requirements

- 3.1. 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.
- 3.2. 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.
- 3.3. 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. 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 Procuring Entity has prescribed that subcontracting is not allowed.

8. Pre-Bid Conference

The Procuring Entity will hold a pre-bid conference for this Project on the specified date and time and either at the address 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 PCAB License is required, and in case of joint ventures, a valid special PCAB License, and registration for the type and cost of the contract for this Project. Any additional type of Contractor license or permit shall be indicated in the **BDS**.

104. 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**.
105. 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 **June 26, 2025**. Any bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

16. Sealing and Marking of Bids

- 16.1. Each Bidder shall submit one copy of the first and second components of its Bid.
- 16.2. 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.
- 16.3. 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 16 shall be submitted for each contract (lot) separately.
- 19.3. In all cases, the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184 must be sufficient for the total of the ABCs for all the lots participated in by the prospective Bidder.

20. Post Qualification

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

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

21. Signing of the Contract

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

Section III. Bid Data Sheet

ITB Clause			
5.2	For this purpose, contracts similar to the Project refer to contracts for the Construction or Renovation of a single storey, or other similar structures.		
7.1	No further instructions.		
10.3	No additional requirements.		
10.4	The minimum work experience requirements for key personnel are the following:		
	Key Personnel	Qualification and Experience	
	Civil Engineer / Architect <i>(Project In-charge)</i>	<ul style="list-style-type: none"> • With at least 1 year of experience in construction project supervision as a licensed professional. 	
	Master Electrician	<ul style="list-style-type: none"> • With at least 1 year of experience in construction project supervision. 	
	Safety Officer	<ul style="list-style-type: none"> • DOLE accredited construction occupation safety officer With at least 1 year of experience as a Safety Officer in construction projects 	
	Foreman	<ul style="list-style-type: none"> • With at least 2 years of experience as foreman in building construction project. 	
10.5	The minimum major equipment requirements are the following:		
	Equipment	Min. Capacity	Min. Quantity
	Drop Side Truck	2 tons	1
	Welding Machine	300A&600A	1
	Angle Grinder	700W	1
	Cut-off Machine	Up to 8" tube	1
	The bidder must state and show proof that the equipment to be pledged for the project are owned or leased.		
12	No further instructions.		
15.1	The bid security shall be in the form of a Bid Securing Declaration or any of the following forms and amounts: <ol style="list-style-type: none"> 1. The amount of not less than ₱ 59,992.90 (2 % of ABC), if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit. 2. The amount of not less than ₱ 149,982.25 (5 % of ABC) if bid security is in Surety Bond. 		
19.2	Partial bid is not allowed. The project is packaged in a single lot and the lot shall not be divided into sub-lots for the purpose of bidding, evaluation, and contract award.		
21	The winning bidder shall submit the following documents, which shall form part of the Contract documents: <ol style="list-style-type: none"> 1. Construction Schedule and S-Curve, 2. Manpower Schedule, 		

- | | |
|--|---|
| | <ol style="list-style-type: none">3. Construction Methods4. Equipment Utilization Schedule5. Construction Safety and Health Program approved by the Department of Labor and Employment, and PERT/CPM. |
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Section IV. General Conditions of Contract

1. Scope of Contract

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

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

2. Sectional Completion of Works

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

3. Possession of Site

- 3.1. The Procuring Entity shall give possession of all or parts of the Site to the Contractor based on the schedule of delivery indicated in the SCC, which corresponds to the execution of the Works. If the Contractor suffers delay or incurs cost from failure on the part of the Procuring Entity to give possession in accordance with the terms of this clause, the Procuring Entity's Representative shall give the Contractor a Contract Time Extension and certify such sum as fair to cover the cost incurred, which sum shall be paid by Procuring Entity.
- 3.2. If possession of a portion is not given by the above date, the Procuring Entity will be deemed to have delayed the start of the relevant activities. The resulting adjustments in contract time to address such delay may be addressed through contract extension provided under Annex "E" of the 2016 revised IRR of RA No. 9184.

4. The Contractor's Obligations

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

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

5. Performance Security

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

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

6. Site Investigation Reports

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

7. Warranty

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

8. Liability of the Contractor

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

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

9. Termination for Other Causes

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

10. Dayworks

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

11. Program of Work

- 11.1. The Contractor shall submit to the Procuring Entity's Representative for approval the said Program of Work showing the general methods, arrangements, order, and timing for all the activities in the Works. The submissions of the Program of Work are indicated in the SCC.
- 11.2. The Contractor shall submit to the Procuring Entity's Representative for approval an updated Program of Work at intervals no longer than the period stated in the SCC. If the

Contractor does not submit an updated Program of Work within this period, the Procuring Entity's Representative may withhold the amount stated in the SCC from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Program of Work has been submitted.

12. Instructions, Inspections and Audits

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

13. Advance Payment

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

14. Progress Payments

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

15. Operating and Maintenance Manuals

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

Section V – Special Conditions of Contract

GCC Clause	
2	Not applicable.
4.1	Upon acknowledgement of receipt of the Notice to Proceed.
6	The site investigation reports are: as indicated in the Technical Specifications.
7.2	As prescribed in Section 62.2.3.2 of the 2016 revised IRR of R.A. 9184.
10	No dayworks are applicable to the contract.
11.1	The Contractor shall submit the Program of Work to the Procuring Entity's Representative within five (5) 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 ten percent (10 %) of the amount of progress billing for the period.
13	The amount of the advance payment shall not exceed fifteen percent (15 %) of the contract price.
14	Materials and equipment delivered on the site but not completely put in place shall be included for payment.
15.1	The date by which operation and maintenance manuals are required is within ten (10) days after the final inspection. The date by which "as built" drawings are required is ten (10) days after the final inspection.
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 ten percent (10 %) of the final billing.

Section VI – Specifications

SECTION 1 – GENERAL REQUIREMENTS

1.1 SCOPE OF WORK

1.1.1 The project shall cover the completion of the **REFURBISHMENT OF COLLEGE OF ENGINEERING STUDENT CENTER**, which shall include the supervision and furnishing of labor, supplies, materials, equipment, and ancillary services necessary to effectively execute and deliver the required work output in accordance with the contract and project specifications.

1.2 CONTRACT DRAWINGS

1.2.1 Details and extent of work are shown in the Drawings accompanying these specifications.

1.2.2 Sketches and other details not shown in the Drawings shall be furnished by the Architect/Engineer during the construction phase.

1.3 PARTS OF THE SPECIFICATIONS

1.3.1 These specifications include the following parts in which applicable provisions are binding on this contract:

SECTION 1	GENERAL REQUIREMENTS
SECTION 2	DEMOLITION, HAULING, DISPOSAL, AND REPAIR WORKS
SECTION 3	STRUCTURAL WORKS
SECTION 4	ARCHITECTURAL WORKS
SECTION 5	ELECTRICAL WORKS
SECTION 6	PLUMBING WORKS

1.4 WORKMANSHIP

1.4.1 All operations required under all parts of the specifications shall be undertaken with the utmost workmanship and professional quality. Only skilled personnel with sufficient experience in similar operations shall be allowed to undertake the same.

1.5 INSPECTION OF THE SITE

1.5.1 The Bid may be deemed to have been based on data, regarding physical conditions at the sites. The Contractor acknowledges and warrants that he has inspected and examined the site and its surroundings and has satisfied himself by submission of his Tender as to the nature of the work and materials necessary for the completion of the works, and the means of access to the sites, the accommodation he may require and that he has obtained for himself all necessary information as to risks, contingencies and other circumstances which may have influenced or affected his Tender. No increase in cost or extension of time will be considered for failure to inspect and examine the site condition

1.6 CONFLICT BETWEEN PLANS AND SPECIFICATIONS

1.6.1 The documents forming the Contract are to be taken as mutually explanatory of one another. For the purposes of interpretation, the priority of the documents shall be in accordance with the following sequence:

- (a) Contract and its attachments (Approved Budget for the Contract, Terms of Reference, etc.)
- (b) Specific Conditions of the Contract
- (c) General Conditions of the Contract
- (d) Technical Specifications
- (e) Drawings
- (f) Project Schedule and any other pertinent documents

1.6.2 Any omissions in the specifications regarding necessary work or works for the project's completion shall be executed by the Contractor as if such work were explicitly detailed in the drawings, without incurring additional costs. All such work shall be performed in accordance with standard practices, adhering to the requisite quality standards for both materials and workmanship.

1.6.3 Should there be any ambiguity or conflict between indication on drawings and provisions in specifications, the same shall be referred to the Engineer/Architect of TSU for resolution.

1.7 APPROVAL

1.7.1 The Contractor shall submit for the Engineer/Architect's approval, the complete list of manufacturer's names of all equipment and materials they propose to use for the project prior to actual installation on site.

1.8 REJECTIONS

1.8.1 Materials or workmanship not in reasonable conformance with the provision of these specifications shall be rejected at any time during the progress of the work. The Contractor shall receive copies of reports of rejection of materials and workmanship made by the authorized technical representative of TSU. Any part of the work that he has done and is not of the quality required by reasonable interpretation of the plans and specifications shall be torn down or removed immediately and rebuild or otherwise remedy such work in accordance with the requirements of the plans and specifications.

1.9 VARIATIONS

1.9.1 The Architect/Engineer reserves the right to make variations in the details of work or materials as it may deem fit. These changes may include revisions or modifications of shapes and dimensions of elements that may involve additional expenses to the Contractor that shall be covered by appropriate Variation Orders.

1.10 AS-BUILT DRAWING AND PICTURES

1.10.1 The Contractor with the approval of the Engineer/Architect shall mark down all the revisions, omissions, and/or additions to the various works on two sets of drawing plans as the construction progresses. One set of the plans as marked shall be submitted to the Engineer/Architect after the completion of work.

1.10.2 The Contractor shall submit to TSU the As-Built Drawings incorporating all changes made and noted in the marked drawings retained by him/her. The As-Built Drawings shall be prepared in reproducible form and submitted together with at least three (3) copies of A3 (11.7 in. X 16.6 in.) and three (3) copies of Blueprint Tracing Size (20 in. X 30 in.).

1.10.3 The Contractor shall submit to TSU pictures of the site before, during, and after construction in reproducible and printed forms.

1.11 BILLBOARD

- 1.11.1 Upon possession of the project site, the Contractor shall immediately erect the Billboard, showing the relevant details of the project, at the location and position designated by TSU and of the dimensions and materials approved by TSU.

1.12 TEMPORARY FACILITIES

- 1.12.1 Upon possession of the project site, the Contractor shall immediately erect temporary facilities such as a field office, storage for equipment and materials, portable toilet, electric and water supply connections, etc., at the location designated by, and using only materials and the manner of construction approved by TSU.

1.13 MOBILIZATION AND DEMOBILIZATION

- 1.13.1 Upon receipt and acceptance of the Notice to Proceed, the Contractor shall immediately mobilize their workforce, equipment, materials, and secure the project site with proper and prompt coordination to the Project-in-Charge.
- 1.13.2 Upon completion of the work, the Contractor shall commence the demobilization of the workforce, equipment, materials, and turn over the project site to TSU.

1.14 CONSTRUCTION OCCUPATION SAFETY AND HEALTH

- 1.14.1 The Contractor shall be responsible for ensuring the safety and health of the personnel assigned at the project site and other parties who may be affected in the implementation of the project.
- 1.14.2 The Contractor shall submit to TSU a copy of the Construction Occupation Safety and Health Program for the project that is duly approved by the Department of Labor and Employment before commencing with the work.
- 1.14.3 The Contractor shall designate a competent and qualified Safety Officer for the whole duration of the project.
- 1.14.4 The Contractor shall establish and implement safety procedures for all relevant jobs, tasks, and operations.
- 1.14.5 All personnel assigned to the project are expected to report for work in their proper uniforms, basic safety gear (helmets, boots, or shoes), and identification cards (IDs). The uniforms, basic safety gear, and IDs shall be provided by the Contractor at his/her own expense.
- 1.14.6 The Contractor shall erect temporary barricades, install early warning and precautionary signs, and provide other safety devices that may be required to keep the job site safe and secured. Use roof sheet or plywood for temporary barricade with standard height and stable framing within the construction site as indicated in the plan: do not use "Blue Sack".
- 1.14.7 The Contractor shall maintain, at the project site, ample supplies of expendable materials for the safety and health of its personnel and other affected parties such as safety tape, first-aid kits, safety gloves, dust masks, etc., the cost of which shall be included in the contract price.
- 1.14.8 The Contractor shall keep a record of all incidents (near-miss or accident) and report the same to the TSU Architect/Engineer.

1.15 PERMITS AND CLEARANCES

- 1.15.1 The Implementing Office shall be responsible for securing all necessary requirements in the application of permits and clearances related to the project.
- 1.15.2 The Contractor shall be responsible for the application of all permits and clearances related to the project, which shall include but not be limited to building permits, occupancy permits, excavation permits, locational clearances environmental compliance certificates, etc.
- 1.15.3 All the professional fees, processing fees, assessment fees, and other payments necessary to complete the permits and clearances required for the project shall be covered in this item by the Contractor.
- 1.15.4 The professionals signing the building permit and occupancy permit shall be the same.
- 1.15.5 In any case, if alterations are needed, all the changes in the construction phase shall be reflected to the as-built drawings/ plans and submit a certification as required by the Office of the Building Officials for the application of occupancy permit. If the alterations affect the structure, the Structural Engineer shall submit the design analysis and computations as well.
- 1.15.6 No additional cost for professional fees shall be given to the Contractor for any changes in the plan as per the instruction of the professional to be signed.

SECTION 2 – DEMOLITION, HAULING, DISPOSAL, AND REPAIR WORKS

2.1 SCOPE OF WORKS

- 2.1.1 Demolition of concrete benches, plumbing pipes and fixtures, floor and wall tiles including topping, ceiling, doors and windows, paver blocks, concrete pavement along waterline source, hauling and disposal shall include the removal and repair of all affected structure needed to complete the project.

2.2 PREVENTION OF DAMAGE TO ADJOINING PROPERTY

- 2.2.1 The Contractor shall take all necessary precautions to protect and preserve adjacent properties, trees, materials, and existing facilities, including conduits, drains, sewers, pipes, and other utilities that are to remain on the property. The Contractor shall be responsible for repairing or restoring any damage to these elements at no additional cost to TSU, regardless of the cause of the damage during the course of the work.
- 2.2.2 The Contractor shall demolish and repair all the affected areas/structures during construction.

2.3 HAULING AND DISPOSAL

- 2.3.1 All unusable materials and debris resulting from the performance of work shall be removed from the premises and disposed of in the location and manner that shall be approved by TSU. All materials that can be reused shall be hauled and arranged properly by the Contractor before turning them over to TSU.

SECTION 3 – STRUCTURAL WORKS

3.1 SCOPE OF WORK

3.1.1 Structural works shall include, where applicable, steel reinforcements, concreting, and curing of concrete mixture.

3.2 MATERIALS

3.2.1 Concrete Aggregates – shall conform to “Specification for Aggregates” (ASTM G33 latest revision). The maximum size of the aggregates shall not be larger than one-fifth (1/5) of the narrowest dimension between the sides of the forms of the member for which the concrete is to be used and not larger than three-fourths (3/4) of the minimum clear spacing between individual reinforcing bars and in no case larger than two (2) inches in diameter.

3.2.2 Reinforcing steel bars shall conform to ASTM Designation A-615-68 specifications for the structural grade. Grade of reinforcing steel bars shall be as follows:

Diameter	Grade
10 mm & above	G40 (276 MPa)

3.2.3 Sand and gravel shall be well-graded and free from any deleterious materials. The fine aggregate shall be washed sand and the size of coarse aggregates must be ¾” crushed gravel.

3.2.4 Cement and aggregates shall be stored in a manner as to prevent their deterioration or the intrusion of foreign matter. Materials of deteriorated quality or which have been damaged shall not be used for concrete. Cement whose quality is questionable shall be tested by standard mortar test to determine its suitability for use.

3.2.5 Forms shall conform to the shape, lines, and dimension of the member as called for on the plans and shall be substantial and sufficiently tight to prevent leakage of mortar. They shall be properly braced or tied to maintain position and shape.

3.2.6 Plywood, metal, plastic materials, or surfaced lumber forms shall be used where it will best give the most advantage in the specific concrete work involved.

3.2.7 Unless otherwise ordered, forms and shoring shall not be disturbed and shall remain in place for a minimum period in accordance with the following schedule.

Concrete Pedestal	2 days
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3.3 CONCRETE WORKS

3.3.1 Before placing reinforcement and before pouring concrete, remove all loose rust, mill, scale, oil, or other adhering materials which tend to reduce or destroy the bond between concrete and reinforcement.

3.3.2 Reinforcing steel bars shall be cut, bent, lapped, or spliced as recommended by CRSI Handbook and ACI Codes. All lap splices of rebars shall conform to Class B Tension Lap Splice unless noted otherwise. All hook ends shall be standard hooks. All stirrups/ties shall have 135° seismic hooks unless noted otherwise.

3.3.3 Reinforcing steel bars shall be placed accurately and secured in place by use of concrete or metal supports, spacers, or ties to firmly hold them in their proper positions during the pouring and setting of concrete.

3.3.4 All reinforcing bars shall be cleaned thoroughly of all loose rust, soil, or other material before concrete pouring. No bars partially embedded in concrete shall be field bent, except permitted by the Engineer/Architect. Bars shall not be welded unless authorized by the Engineer/Architect.

3.3.5 Maintain minimum concrete cover to traverse bars as follows:

Element	Concrete Cover
Concrete Pedestal	40mm
Pedestal Footing	75mm

3.4 STEEL AND ROOFING WORKS

3.4.1 Materials

All materials shall conform to that listed below unless noted otherwise on the drawings.

3.4.1.1 All structural steel shapes and plates shall conform to ASTM-A36 (248 MPa) and at least commercial type.

3.4.1.2 All structural bolts shall conform to ASTM-A307 (Ft=96.60 MPa, Fv=69.00 MPa) and at least commercial type.

3.4.1.3 All stainless-steel pipes shall be S304.

3.4.1.4 All steel tubing shall be G.I. Tubular and at least commercial type.

3.4.1.5 Welding electrodes shall be E60XX.

3.4.1.6 Roof sheets shall be approved 0.50 mm thick Pre-painted Long Span Rib-type. Approved type and quality.

3.4.1.7 Ridge Roll shall be approved 0.50 mm thick Pre-painted Plain Sheet. Approved type and quality.

3.4.1.8 All metallic fasteners and fixing accessories shall be corrosion proof and non-metallic fasteners shall be of neoprene.

3.4.2 Workmanship

3.4.2.1 The length of roof sheets shall be in accordance with the actual dimension of the roof framing. These shall be verified prior to purchasing or ordering.

3.4.2.2 The ridge rolls shall be riveted. Apply an approved epoxy sealant around the perimeter where the ridge roll connects with the roof sheets to ensure a watertight seal.

3.4.2.3 PE Foam Insulation must be placed between the roof sheets and purlins with welded wire mesh #21 support underneath.

3.4.3 Fabrication and Erection

3.4.3.1 Field fabrication shall be kept to a minimum and shop fabrication shall be employed to the greatest extent possible with members shop fabricated as long as practicable with a minimum requirement for field connections. Welding, shearing, gas cutting, chipping, and all other works involved in the fabrication of structural steel shall be done with

accuracy and of the highest quality of workmanship within the allowable tolerance prescribed in the AISC Specifications.

- 3.4.3.2 The steel members shall be shop fabricated and shall be done only by a qualified welder.
- 3.4.3.3 If for any reason, the TSU Engineer/Architect believes that a defect exists in any weld, it shall be the Contractor's responsibility to repair the questioned weld to the satisfaction of the Engineer/Architect.
- 3.4.3.4 All steel works after complete erection shall be field painted with the type specified in the section of the painting of this specification. Painting shall not be done on any steel surface that is not thoroughly clean and dry.
- 3.4.3.5 The steel structures shall be erected plumb and true line and grade. Bracing and support should be provided as necessary to accommodate all loads the structure may encounter. These bracings must remain in place for as long as needed to ensure safety.
- 3.4.3.6 Connections shall be as shown in the drawings and shall develop the full capacity of the member.
- 3.4.3.7 Surfaces or joints prepared for welded or anchor bolt connection shall meet the cleanliness requirements for all joint surfaces and contact surfaces within friction-type joints as specified in Section 3, "Bolted Parts of the AISC Specifications".
- 3.4.3.8 Holes shall be punched or drilled at right angles to the surface of the metals and shall be enlarged by burning. Holes shall be clean-out without rugged edges. Outside bursts resulting from drilling or roaming operations shall be removed with a tool that reaches 1/16" (1.588mm) level around the bolt holes.

3.4.4 Inspection

- 3.4.4.1 Materials, equipment, and tools intended to be used for the work shall be inspected and approved by the TSU Architect/Engineer.
- 3.4.4.2 Each completed stage of the work shall be inspected and approved by the TSU Architect/Engineer before the next stage of the work can commence.
- 3.4.4.3 Before any Structural Steel Frame Fabrication is done by the Contractor, all materials intended to be used by the Contractor for the project shall be inspected for proper checking and approval of material thickness, quality, and sizes.
- 3.4.4.4 Final inspection by the Engineer/Architect of the TSU must be done before any delivery of the fabricated structural steel frames, members, and accessories. This inspection is made upon the advice of the Contractor.
- 3.4.4.5 Failure on the part of the Contractor to notify the TSU Engineer/Architect of the inspection of the materials intended to be used for the project before the start of any fabrication and final inspection of the fabricated structural steel frames, members, and accessories before any delivery is made will be at the risk of the Contractor for any subsequent rejection.

3.4.5 Marking

- 3.4.5.1 Shop fabricated members shall be marked before delivery to facilitate the erection of the members. Markings shall be listed and given descriptions and copies of which shall be furnished to the field and the TSU. Markings shall be neatly painted on the members with a distinctive color of quick-dry enamel paint.

3.4.6 Shop Painting

- 3.4.6.1 Steelworks to be encased in concrete shall not be painted. All other steelworks shall be given one coat of shop paint of Epoxy Primer, applied thoroughly and evenly to dry surfaces, which have been cleaned, by brush, spray roller coating, flow coating, or dipping at the selection of the fabricator. Steelwork before painting and after inspection and approval shall be clean of loose mill scale, loose rust, weld slag or flux deposit, dirt, and other foreign materials. Oil and grease shall be removed by a solvent. Parts of the steelwork that shall be field welded or connected shall not be painted.

3.4.7 Field Painting

- 3.4.7.1 All steelworks after complete erection shall be field painted with the type specified in the section of the painting of this specification. Painting shall not be done on any steel surface that is not thoroughly clean and dry.

SECTION 4 – ARCHITECTURAL WORKS

4.1 MASONRY AND PLASTERING

4.1.1 SCOPE OF WORKS

- 4.1.1.1 The work includes the furnishing of all materials, labor, equipment, and the performing of all necessary operations in connection with masonry and plastering works.

4.1.2 MATERIALS

- 4.1.2.1 All masonry units shall be approved quality, sound, free from cracks and other imperfections.
- 4.1.2.2 Non-load Bearing Concrete Hollow blocks shall be used with a minimum compressive strength of 500 psi. Method of sampling for quality test shall be one (1) quality test for every 10,000 units or fraction thereof, with three (3) specimens for compression test.
- 4.1.2.3 Reinforcing steel bars shall conform to ASTM Designation A-615-68 specifications for the structural grade.
- 4.1.2.4 Concrete Aggregates – Shall conform to “Specifications for Aggregates” (ASTM G33 latest revision). Sand and gravel shall be well graded and free from any deleterious materials. Sand and gravel shall be washed and crushed, respectively.
- 4.1.2.5 Cement and aggregates shall be stored in a manner as to prevent their deterioration or the intrusion of foreign matter. Materials of deteriorated quality or which has been damaged shall not be used for concrete. Cement whose quality is questionable shall be tested by standard mortar test to determine its suitability for use.
- 4.1.2.6 Mortar of cells of CHB’s shall consist of one (1) part to cement to three (3) parts sand by volume with sufficient water. It shall be workable cement-sand mixture attaining a 28th day compressive strength of 1500 psi.
- 4.1.2.7 Vertical and horizontal reinforcements shall be provided in masonry. CHB walls shall be reinforced as follows:

Thickness	Horizontal Reinforcement	Vertical Reinforcement
100m	10mmØ @ 600mm O.C.	10mmØ @ 600mm O.C.

4.1.2.8 Mortar for plastering shall be proportioned one (1) part cement to two (2) parts sand with sufficient water. Use 50 mm thick cement plastering for exterior walls and 25 mm thick cement plastering for interior walls.

4.1.3 WORKMANSHIP

4.1.3.1 CHB's shall be laid plumbed and leveled accurately. Laid units of blocks shall be wetted before laying another unit or layer. Damaged units shall not be used. Units shall be cut accurately to fit all plumbing ducts, opening for electrical works; all holes shall be neatly patched.

4.1.3.2 Units shall be placed while the mortar is soft and plastic and shall be used within two and a half (2.5) hours of initial mixing. Mortar that has stiffened should not be used. Any unit disturbed to the extent that the initial bond is broken after initial positioning shall be removed and re-laid in fresh mortar. All cells of CHB units shall be fully grouted.

4.1.3.3 Where CHB walls adjoin columns, beams and walls, dowels with the same size as the vertical or horizontal reinforcement shall be provided.

4.1.3.4 No construction support shall be attached to the CHB wall except where specifically permitted by the Engineer.

4.2 CEILING AND CLADDING WORKS

4.2.1 CEILING

4.2.1.1 SCOPE OF WORK

4.2.1.2 This section shall include all materials, labor, materials, tools, equipment, and services necessary to complete the ceiling and wall works in strict accordance with the drawings.

4.2.2 SUBMITTAL

4.2.2.1 Submit product information from manufacturers for each type of product specified to include brochures, catalogs, samples, and certificates of test reports, quality compliance, and accreditation from foreign manufacturers for authenticity of locally distributed materials.

4.2.3 DELIVERY, STORAGE, AND HANDLING

4.2.3.1 Deliver materials in manufacturer's original unopened packages clearly marked with identifying information. Protect materials as recommended by the manufacturer.

4.2.3.2 Store materials, keep them dry and protect against damage from weather, direct sunlight, surface contamination, corrosion, construction traffic, and other causes. Stack gypsum panels on a level surface to prevent sagging.

4.2.4 MATERIAL

4.2.4.1 4.5mm thick. Ficem board. With complete accessories;

- 4.2.4.2 6 mm thick. Ficem board for false column. Approved brand and quality.
- 4.2.4.3 Metal furring shall be 0.50 mm thick. x 19 mm x 50 mm spaced at 40 mm. (max.) or if the thickness is less than 0.50 mm the spacing shall be at 300 mm o.c.
- 4.2.4.4 Carrying Channel 0.80 mm thick x 12 mm x 38 mm. spaced at 1200 mm. (max.)
- 4.2.4.5 Complete with screws, double U-clip, and complete accessories.
- 4.2.4.6 Pre-Painted Spandrel (Wood Finish) should be 0.50 mm thick and with frames and moldings; Approved brand, type and quality.



- 4.2.4.7 Adhesives for joint, fillers, and fastener concealment shall be of the types recommended in writing by the board manufacturer and as approved for the following uses.
- 4.2.4.8 Embedding compounds for first and second coats.
- 4.2.4.9 Finishing compound for the final coat.

4.2.5 INSTALLATION

- 4.2.5.1 Framing for furred ceilings and false column shall be installed at the locations indicated and shall conform to the standards.
- 4.2.5.2 Ceiling framing shall be suspended plumb from the structural slab or steel roof frame by hanger wires or straps, spaced at not less than 1.20 m on centers. Hanger wires shall be wrapped around the reinforcing bars, of the supporting concrete-slab construction with twists before concrete is placed or shall be shaped into 100mm diameter loops and embedded at least 50 mm in the concrete or shall be attached to approve inserts. Hanger wires shall be looped around the bottom chord of the open-web steel joist and shall receive three full turns around itself, or around structural steel members, or to attach beam clamps and shall receive three full turns around itself. Hanger Strap shall be hung plumb and connected with 10 mm galvanized bolts and nuts to anchors made of hanger strap set in the concrete or shall be looped around structural framing and connected to itself with 10 mm galvanized bolts and nuts.
- 4.2.5.3 Where channels are spliced, the ends shall be overlapped not less than 300 mm with flanges of channels interlocked and securely fastened with rivets.
- 4.2.5.4 Framing is not required for ceilings attached to structural members, except for framing openings as specified. Furring as hereinafter specified shall be attached directly to structural members.

- 4.2.5.5 Steel channels shall be provided where steel furring is indicated for screw attachment of boards.
- 4.2.5.6 Furring shall be spliced with 200 mm nested laps securely tied near each end of lap, with two loops of 1.0 mm tie wire. Splices shall be staggered.
- 4.2.5.7 Where board abuts dissimilar wall materials, perimeter of ceilings shall be finished with an edge bead trim strip applied to wall and accurately aligned with the finished ceiling. Board edges adjoining walls shall be laid on the horizontal leg of the trim strip against a continuous bead of approved type sealant.
- 4.2.5.8 Special framing for beams, columns, soffits, and other special items shall be sized and built to the shapes or forms indicated by rigidly securing each intersection with board screws.
- 4.2.5.9 Support members shall be provided at ceiling openings such as required for access panels, recessed light fixtures, and air supply or exhaust. Support members of not less than 38 mm main runner channels and suspension wires or straps shall be located to provide at least the minimum support specified herein for furring and board attachment.
- 4.2.5.10 Board shall be applied with the separate boards in moderate contact but not forced into place at internal and external corners. The cut edges of the boards shall be concealed by the overlapping covered edges of the abutting boards. The boards shall be so staggered that the corners of any boards will not meet a common point except in vertical corners.
- 4.2.5.11 Board shall be applied to the ceilings with the long dimension of the board, at right angles to the furring members. Board may be applied with the long dimension parallel to furring members that are spaced 0.40 m on centers when attachment members are provided at end joints.
- 4.2.6 **CLEANING AND PROTECTION**
- 4.2.6.1 Promptly remove any residual joint compound from adjacent surfaces not indicated to receive texture.
- 4.2.6.2 Provide final protection and maintain conditions, in a manner acceptable to the Installer, that ensures gypsum board assemblies are without damage or deterioration at the time of construction completion.

4.3 FLOORING AND WALL WORKS

4.3.1 SCOPE OF WORKS

- 4.3.1.1 The work covered under this section shall include complete labor, and the supply materials, equipment and necessary to properly conduct and produce the-desired work product.

4.3.2 GENERAL

- 4.3.2.1 Prepare the floors and walls to install directly to their corresponding surfaces. Deliver materials to the job in the manufacturer's unopened containers with the manufacturer's brand and name clearly marked thereon.

4.3.3 MATERIALS AND PREPARATION

- 4.3.3.1 Smooth Cement Floor Finish should be used for the student center.
- 4.3.3.2 #10 Pebble Washout Finish (Gray Color) should be used for the stairs and PWD Ramp.
- 4.3.3.3 Concrete Fine Broom Finish should be used for the pathway.
- 4.3.3.4 20mm x 219 mm x 2900mm WPC Fluted Wall Panels (Brown Color) including adhesive and complete accessories should be used.



4.3.4 TILE INSTALLATION

- 4.3.4.1 Clean the existing flooring.
- 4.3.4.2 Lay tiles in straight square patterns and cover them from wall to wall. Where the manufacturer's instruction requires priming of concrete floors, work the primer well into the surface of the concrete with stiff brushes or a straight-edge steel trowel, using the minimum quantity, which will assure complete coverage. Allow the primer to dry thoroughly. Install the tile in such a manner that each tile is in contact with each adjacent tile and that the entire undersurface of each tile will be securely bonded.
- 4.3.4.3 Layout the field from the midpoint of the axis of the room so that the opposite end tile will be equal in width. The width of the tile shall be subject to the variation required by the dimensions of the room and the size of the tile used. Scribe the end tile to the wall and cut in a manner that will ensure clean sharp edges.
- 4.3.4.4 Apply adhesive following the manufacturer's recommendation. Secure cove base to walls with adhesive as specified for floor tiles.

4.3.5 CLEANING

- 4.3.5.1 Clean flooring of adhesive and other soiling. Remove adhesive with a putty knife and steel wool or with cloth moistened with a neutral soap of a type approved by the manufacturer. The use of solvents and wet mopping is prohibited.

4.3.6 PROTECTION

- 4.3.6.1 After cleaning, protect the floor until acceptance of the building.

4.3.7 GUARANTEE

- 4.3.7.1 Floors shall be guaranteed by the manufacturer against defects in its floor tiles and by the Contractor against defects in workmanship for one year from the date of completion.

4.4 PAINTING WORKS

4.4.1 SCOPE OF WORK

- 4.4.1.1 The Contractor shall furnish all materials, labor, equipment, and services required to complete the entire painting work herein called for. Painting work shall include the painting and repainting of all interior walls, columns, beams, existing trusses, purlins etc. of the expansion and existing building as specified hereinafter and required thereto.
- 4.4.1.2 The Contractor shall furnish all tools, brushes, spraying equipment, pails, and other equipment required to complete the entire painting work.

4.4.2 MATERIALS

- 4.4.2.1 Brand of painting materials to be used shall be approved by the Architect/Engineer.
- 4.4.2.2 All paint materials shall be delivered to the job site in their original containers with labels and sealed unbroken.
- 4.4.2.3 Except for ready-mixed materials in original containers all mixing shall be done at the job site. No materials are to be reduced or changed except as specified by the manufacturer of the said materials. The use of white zinc (lithopone) will not be allowed.

4.4.3 COLORS

- 4.4.3.1 All colors of paints and varnishes shall be in accordance with the color scheme approved by the TSU.
- 4.4.3.2 Samples of the color to be used shall be submitted and those approved shall be strictly followed. No painting shall be started before these color schemes are approved by the Architect/Engineer.
- 4.4.3.3 Finishes for the different portions of the work shall be specifically indicated in the Schedule of Specifications.

4.4.4 CONSTRUCTION REQUIREMENTS

- 4.4.4.1 The Contractor before the commencement of the work shall examine the surfaces to be applied with paints not to jeopardize the quality and appearance of a painting of finishing work.

4.4.5 SURFACE EXAMINATION AND PREPARATION

- 4.4.5.1 No painting shall be done under conditions that may jeopardize the quality or appearance of the painting or finishing.

4.4.5.2 All surfaces to receive paint should be cleaned and in proper condition.

4.4.6 SURFACE CONDITIONING

4.4.6.1 Apply topcoat on existing concrete and masonry surfaces.

4.4.6.2 Hairline cracks and unevenness shall be patched and sealed with approved putty or patching compound. After all, defects are corrected, apply the finish coats as specified in the Plan by the approved color scheme.

4.4.6.3 Metals shall be clean, dry, and free from mill scale and rust. Remove all grease and oil from surfaces. Wash unprimed galvanized metal with the etching solution and allow it to dry.

4.4.6.4 Metal surfaces shall be primed with epoxy primer.

4.4.7 IN ADDITION, THE CONTRACTOR SHALL UNDERTAKE THE FOLLOWING

4.4.7.1 Voids, cracks, and all other kinds of defects shall be repaired with proper patching materials and finished flush surrounding surfaces.

4.4.8 APPLICATION

4.4.8.1 Paints, when applied by brush, shall be non-fluid; thick enough to lay down an adequate film of wet paint. Brush marks shall be flawed out after the application of paint.

4.4.8.2 Paints prepared for application by roller must be similar to brushing paint. It must be non-sticky when thinned to spray viscosity to break up easily into droplets.

4.4.9 WORKMANSHIP

4.4.9.1 All works shall be performed by experienced and skilled craftsmen to assure finished work of first-class quality, appearance, and durability.

4.4.9.2 All paints and other coatings shall be mixed and applied strictly in accordance with the manufacturer's printed instructions.

4.4.10 MIXING AND THINNING

4.4.10.1 At the time of application, paint shall show no sign of deterioration. Paint shall be thoroughly stirred, strained, and kept at a uniform consistency during application.

4.4.10.2 When thinning is necessary, this may be done immediately before application in accordance with the manufacturer's directions, but not over 1 pint of suitable thinner per gallon of paint.

4.4.10.3 Kerosene shall not be used as paint thinner. Paints from the different manufacturers shall not be mixed.

4.4.11 STORAGE

- 4.4.11.1 All materials to be used for this Item shall be stored in a single place to be designated by the Architect and such place shall be kept neat and clean at all times.
- 4.4.11.2 Necessary precautions to avoid fire must be observed by removing oily rags, waste, etc. at the end of daily work.

4.4.12 CLEANING

- 4.4.12.1 All clothes and cotton waste which is fire hazards shall be placed in a metal container or destroyed at the end of daily work.
- 4.4.12.2 Upon completion of the work, all staging, scaffolding, and paint containers shall be removed and disposed of.
- 4.4.12.3 Paint drips, oil, or stains on adjacent surfaces shall be removed and the entire job left clean and acceptable to the supervising Architect/Engineer.

4.5 DOORS AND WINDOWS

4.5.1 SCOPE OF WORK

- 4.5.1.1 The Contractor shall furnish all materials, labor, equipment, tools, and services necessary to complete all work herein specified and shown on drawings.

4.5.2 DOORS

- 4.5.2.1 Where so shown on drawings, doors shall be of the following type unless otherwise specifically noted in the Schedule of Specifications with complete necessary hardware.
- 4.5.2.2 6mm thick tempered glass double panel swing door with closer and FD100 with S304 Stainless H-Type Door Handle on analog aluminum framing and complete accessories.

4.5.3 WINDOWS

- 4.5.3.1 Type: Window types will be as shown on the Schedule of Doors and Windows or specified on the Schedule of Specifications.
- 4.5.3.2 Fixed clear tempered glass window and transom window shall be 6mm thick on analog aluminum frame. See schedule of windows in the plan. Approved brand and quality.
- 4.5.3.3 All glasses shall be accurately cut to fit and with equal bearing on the entire width of pane. Thin layer of putty shall be applied to the rebate and set glass; pressing until an even bed is secured. Remove excess putty from each side flush with the edge of rebate.
- 4.5.3.4 Hardware and Operation: All hardware and other attachments necessary to ensure proper operation of ventilators shall be as per manufacturer's specifications. These must affect the tight close of vents when locked. Locking handles, catch keepers, etc.

4.5.4 SHOP FINISH

- 4.5.4.1 Unless otherwise specified in the Schedules of Specifications all steel doors, windows, and frames will be bonderized.

4.5.5 DIMENSION TO BE VERIFIED

- 4.5.5.1 All dimensions of opening as shown on drawings must be verified by the Contractor at the job site before fabrication of doors and windows.

4.5.6 GLASS AND GLAZING

4.5.6.1 MATERIALS

- 4.5.6.1.1 Glasses to be assigned to the different portions of the work shall be of types and thickness as noted in the Schedule of Specifications and as indicated on drawings.

4.5.6.2 EXECUTION

- 4.5.6.2.1 All glasses shall be accurately cut to fit and with equal bearing on the entire width of pane. Thin layer of putty shall be applied to rebate and set glass; pressing until an even bed is secured. Remove excess putty from each sides flush with edge of rebate.
- 4.5.6.2.2 Glass breakage caused in executing the work or faulty installation shall be replaced by Contractor without extra cost.

4.6 FURNISHING AND ACCESSORIES

4.6.1 SCOPE OF WORK

- 4.6.1.1 The work covered under this section shall include the complete labor, and the supply materials, equipment, and necessary to properly conduct and produce the desired work product.
- 4.6.1.2 All furnishings to be installed must be approved by TSU.

4.6.2 GENERAL

- 4.6.2.1 Deliver the materials to the job in the manufacturer's unopened containers with the manufacturer's brand and name clearly marked thereon.

4.6.3 HARDWARE

- 4.6.3.1 Cabinet openings shall use heavy duty piano hinges, heavy duty magnetic pull latch. Approved type quality and brand.

SECTION 5 – ELECTRICAL WORKS

5.1 GENERAL

- 5.1.1. Work covered by this specification shall include furnishing all labor, materials, equipment, and services required to construct and install the new electrical system specified herein and the electrical plan. All work shall be in accordance with the

governing codes and regulations and with the specifications, except when the same shall conflict with such codes, etc. in which case the latter shall then govern.

5.2 SCOPE

5.2.1 Under this section of the specifications, the Contractor shall provide all materials and equipment and perform all the work necessary for the complete execution of the electrical work specified herein; except as otherwise excluded, and which without excluding the generality of the foregoing, shall include but not be limited to the following principal items of work.

5.2.1.1 Provide new electrical lighting system, power system and service feeder line for the Refurbishment of College of Engineering Student Center.

5.2.1.2 All tapping shall be executed in the inside ceiling and boxes.

5.2.1.3 Main panel board shall be connected to the existing distribution panel board located at the staircase beside the College of Engineering's library.

5.2.1.4 All necessary materials, accessories, and consumables needed to properly install, terminate wires, and execute electrical works, such as electrical tapes, connectors, or the like, shall be considered.

5.2.1.5 Complete testing of all electrical systems.

5.2.1.6 Optional items of work.

5.3 CODES, REGULATIONS AND ORDINANCES

5.3.1 The electrical item under this contract is to be installed according to the requirements of the latest Philippines Electrical Code, the rules and regulations of the Authority concerned and the requirements of the Power Company. Nothing contained in these specifications or shown on the drawings shall be construed as to conflict with the National and Local Ordinances or Laws governing the installation of electrical work, and all laws and ordinances are hereby made part of these specifications. The Contractor is required to meet the requirements thereof.

5.4 PLANS AND DRAWINGS

5.4.1 The Contract Drawings, which constitute an integral part of this contract, shall serve as workings drawings. They indicate the general layout of the complete electrical system and show arrangements of feeders, circuits, outlets, switches, control panel boards, service equipment, fixtures, and other works.

5.4.2 The Contractor shall check architectural, structural, and plumbing plans to avoid possible installation conflicts. Should drastically changes from original plans be necessary to resolve such conflicts, the Contractor shall notify the Engineer/Architect and shall secure from him written approval and agreement concerning necessary changes and adjustments before altered installation work is started.

5.5 SAMPLES AND DRAWINGS

5.5.1 The Contractor shall submit to the Engineer/Architect for approval samples of conduit, wire, wiring devices finished plates and of any item as may be required by the Engineer/Architect.

5.5.2 Prepare and submit shop drawings or catalogs of equipment appliances and fixtures for approval.

5.6 MINOR MODIFICATIONS

5.6.1 The plans as drawn are based upon architectural plans and details show conditions as accurately as is possible to indicate then in scale. The plans are diagrammatical and do not necessarily show all fittings, etc., necessary to fit the conditions. The locations of lighting fixtures, convenience outlets, air conditioning outlets and switches shown on the plans are approximate. The Contractor shall be responsible for the proper location in order to make them fit with architectural details.

5.7 GUARANTEES

5.7.1 The Contractor shall guarantee that the electrical system is free from all grounds and all defective workmanship and materials and will remain so for a period of one (1) year from the date of acceptance of the work. Any defects, appearing within the aforesaid period, shall be remedied by the Contractor at his own expense.

5.7.2 The Contractor shall indemnify and save harmless the TSU and his duly authorized representative from and against all liability for damages arising from injuries or disabilities to persons or damage to property occasioned by any act or omission of the Contractor, including all expenses, legal or other, which may be incurred by the TSU in the defense of any claim, action or suit.

5.8 STANDARD OF MATERIALS

5.8.1 All materials shall be new and shall conform to the standards specified in the Philippine Electrical Codes and other such as IEEE, AIA, IEEA and NEMA, for every case where such standard has been established for the materials in question

5.8.2 All materials on all systems shall comply with the following specifications unless specifically accepted, and all materials were not specified shall be of the best of their respective kind.

5.8.3 Samples of all materials shall be submitted for approval as required by the Engineer/Architect.

5.9 INSTALLATION REQUIREMENTS

5.9.1 GROUND TESTS

5.9.1.1 The entire installation shall be free from improper grounds and from short circuits.

5.9.1.2 Ground testing shall be performed and shall meet the standard resistance required by the NFPA, IEEE and PEC.

5.9.2 PERFORMANCE TEST

5.9.2.1 It shall be the responsibility of the Contractor to test all systems of the entire electrical installation for proper operational conditions. These conditions shall

apply to the power and lighting installations as well as the fire alarm system and motors.

5.10 WIRE AND CABLE

5.10.1 Wires shall be color coded as follows:

Line 1 --- Red Line 2 --- Yellow Ground --- Green

5.10.2 All wires shall be copper, soft-drawn, and annealed, shall be of 98% conductivity, shall be smooth and fine and of a cylindrical form and shall be within 1% of the actual sized called for. All wires and cables shall comply with the requirements as to the usage.

5.10.3 All wires and cables for lighting and power system shall be moisture and heat-resistant rubber or thermoplastic insulate. It must be in conformity with the Philippine Electrical Code when used in damp or unit location. Wires shall be stranded for sizes #12 AWG.

5.10.4 For lighting, power and air-conditioning systems, no wire shall be smaller than #12 AWG shall be used.

5.10.5 All wires and cables to be used shall be approved brand.

5.11 PIPES

5.11.1 Wiring shall be done in PVC Pipe for embedded and in RSC or EMT for run exposed; it shall be Schedule 40.

5.11.2 No tubing shall be used in any system smaller than ½” electric trade size, nor shall have more than four 90-degree bends in any one run and where necessary pull boxes shall be provided as directed.

5.11.3 No wire shall be pulled into any conduit until the conduit system is complete in all details and in the case of concealed work until all rough plastering or masonry has been completed in every detail.

5.11.4 The ends of all conduits shall be tightly plugged to exclude plaster, dust, and moisture while the building is in the process of construction. All conduit ends shall be reamed to remove all burrs.

5.11.5 Provide proper hanger and support for conduits which will be hanged over the ceiling, and it shall be free from sagging.

5.12 OUTLETS BOXES AND FITTINGS

5.12.1 All outlets of whatever kind for all systems shall be provided by a suitable fitting, which shall be either a box or other device especially designed to receive the type of fitting to be mounted thereon.

5.12.2 The Contractor shall consult with the Contracting Officer as to the nature of the various fittings to be used before installing his outlet fittings and shall conform strictly in the use of fittings to the nature of the compliance to be mounted on them, so that the work, when completed will be finished design

5.12.3 All outlets on exposed conduit work shall be provided by a galvanized pressed steel outlet boxes of standard make. The boxes shall be especially designed for apparatus require

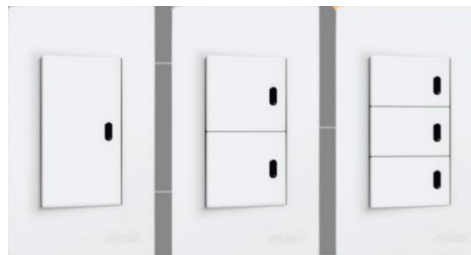
5.12.4 All outlets on concealed conduit work shall be provided by PVC outlet boxes of standard make. The boxes shall be especially designed for apparatus required.

5.13 JUNCTION AND PULL BOXES

5.13.1 Weatherproof junction and pull boxes shall be provided as indicated or as required for facilitating and pulling of wire and cables. Pull boxes in finished places shall be located and installed with permission and to the satisfaction of the contracting officer.

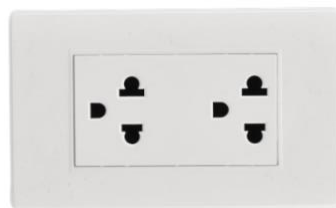
5.14 WALL SWITCHES

5.14.1 Wall switches shall be rated at 15 amperes, 250 volts, one way or as required. Switches shall be with LED, quiet and automatic action type, silver contact, feather touch operation, colored matte black. Switches to be used shall be approved brand by the Engineer/Architect.



5.15 POWER RECEPTACLES

5.15.1 Receptacle's outlet shall be for flush mounting duplex rated at 10 ampere, 250 volts "T" slot socket-outlet, white. Receptacles to be used shall be approved brand by the Engineer/Architect.



5.16 PLATES

5.16.1 All switch and receptacle plates shall be of Bakelite white finish, and of approved brand.

5.17 PANEL AND DATA CABINETS

5.17.1 Electrical panel board shall be with dead front construction, furnished with trims for flush. Dead front shall be made of hinged door mechanism with keylock.



5.17.2 Cabinets shall be of code gauge steel with gutters at least 4 inches wide and wider if necessary. The trim for all panels shall be finished in gray enamel over a rust inhibitor. Manufacturer's show drawings shall be submitted to the Engineer/Architect for approval.

5.18 INDIVIDUAL BREAKERS AND SWITCHES

- 5.18.1 Provide individual circuit breakers, safety switches and disconnect switches as where indicated. Voltage ratings shall be suitable in each case of service application.
- 5.18.2 Enclosure shall be General Purpose, NEMA type, and shall almost all the requirements and specifications of the Philippine Electrical Code.
- 5.18.3 Circuit breakers shall be capable of being closed and operated by hand without employing and other source of power.
- 5.18.4 Circuit breaker to be used shall be of approved brand and KAIC rating.

5.19 LIGHTING SYSTEM AND OTHER FIXTURES

- 5.19.1 The lighting system and other fixtures shall be complete in every aspect, all indicated on the plan or specified.
- 5.19.2 All work for the lighting system inside the ceiling shall be done utilizing knob and tube work and lighting circuits shall be balanced at the panels.
- 5.19.3 Mounting heights of devices shall be as follows

Local Switches: 1.4m from FFL.

Convenience Outlet: 0.30m above floor or above counters, or as directed by the TSU Architect/Engineer.

A.C. Outlets: At convenient height near the equipment. Install all lighting fixtures and lamps as specified or at locations shown in plans or as directed by the Engineer/Architect.

- 5.19.4 Submit samples of each fixture to the Engineer/Architect for approval prior to installation.

5.19.5 All lighting fixtures shall be selected by the Engineer/Architect.



3 Watts Recessed LED emergency light
[Ceiling Mounted]



12 Watts round surface mounted LED
panel light [Color: Warm White]



42 Watts large square LED panel
light [Color: Daylight]



36 Watts surface mounted LED
Black linear light [Color: Daylight]



5 Watts IP67 wall lamp [Color: Daylight]



9V DC Battery Operated Smoke
Detector with alarm

5.20 CONSUMABLE HARDWARE

5.20.1 Other materials needed as an accessory to finish installing electrical and electronic fixtures shall be considered as consumable hardware.

5.20.2 Conduit hangers, PVC connectors, G.I. wires, cable tie, brackets, electrical tape, tox and screw shall be considered as consumable hardware.

SECTION 6 – PLUMBING WORKS

6.1 SCOPE OF WORK

6.1.1 Furnish all materials, labor, tools, equipment, and other facilities required for the complete installation, testing, and operation of the plumbing system. This includes, but is not limited to:

6.1.2 Installation of new fittings, and accessories.

- 6.1.3 All plumbing work and pipe sizes must adhere to the National Plumbing Code of the Philippines and local requirements and ordinances.
- 6.1.4 The Contractor must review all architectural, structural, and electrical plans, along with this specification. The Contractor is responsible for investigating all potential interferences and existing site conditions affecting the installation and operation of the new plumbing system.
- 6.1.5 The drawings detail the pipes, valves, and appliances for the project. Any items not specifically mentioned but necessary for the complete system, in accordance with best plumbing practices and to the satisfaction of the Engineer/Architect, must also be furnished and installed.

6.2 PIPES AND FITTINGS

6.2.1 Drain Pipe – shall be Polyvinyl Chloride (PVC) pipes 100mm Ø Series 1000.

6.2.2 Downspout- shall be Polyvinyl Chloride (PVC) pipes 75mm Ø Series 1000.

6.2.3 Condensate Drainpipes shall be 25mm Ø PVC Blue Pipe and must comply with Philippine National Standards (PNS) or equivalent for PVC pipes.

6.3 JOINTS AND CONNECTIONS

6.3.1 All joints shall be air and watertight.

6.3.2 PVC Pipes and Fittings – socket type with PVC solvent cement, elastomeric rubber O-ring gasket, or as per the Manufacturer's recommendations.

6.3.3 Dissimilar Pipes – Use adaptor fittings.

Section VII. Drawings

Please refer to the PDF file named “Drawings” in the folder “**Refurbishment of College of Engineering Student Center**” at the TSU website: <https://www.tsu.edu.ph/opportunities/bid-opportunities/2025-bid-opportunities/>

Section VIII. Bill of Quantities

1. General

- 1.1. The Bill of Quantities (BOQ) shall be read and construed in conjunction with the Conditions of Contract, Specifications, and Drawings and the Bidder shall provide the prices for the full scope of the work covered by the Contract. No claim for variations shall be considered on account of the Bidder's failure to comply with this provision.
- 1.2. Although the BOQ was prepared with due diligence, all quantities given therein shall be deemed to be estimated quantities and are not guaranteed to be actual and correct. The Bidder shall be deemed to have checked and verified the quantities in the preparation of his/her Bid. Any claim whatsoever for any positive variation in the actual quantities furnished versus the BOQ shall not be accepted, unless stipulated elsewhere in the Contract. Upon award of the Contract, the priced BOQ shall be used solely for evaluating work accomplishment payments due to the Contactor.
- 1.3. The Bidder shall check that each copy of the BOQ is complete in the number of pages and in the reproduction of each page.
- 1.4. The descriptions in the Bill of Quantities may not be complete and the Bidder must refer to the Specifications and Drawings.
- 1.5. The Bidder shall not change any description or specification, and remove or omit any of the item, or part of any of the item of the BOQ without the proper notification of the authorized person of TSU.
- 1.6. Prices shall be given in Philippine Peso taken to two decimal places. A comma shall be used to separate triple digits and a point or dot to separate the decimal portion (e.g., 1,355,076.45)
- 1.7. Identical work items occurring in separate sections shall not be priced at different rates, unless it is the deliberate intention.

2. Units

Symbol	Unit	Description
lot	lot	Although not a standard unit of measure, in this BOQ it shall be construed as a collection of all the materials (accessory, fitting, fixture, consumable, etc.) required for a particular scope of work
m ²	square meter	Area; it shall be construed as the coverage area or surface area
m ³	cubic meter	Volume
pc	piece	Used for discrete or countable materials
set	set	Although not a standard unit of measure, in this BOQ it shall be construed as the complete set of the major material component and its auxiliaries or accessories to be operational or functional

3. Rates

Rates and Prices shall be all inclusive, comprehensive, and include the following:

- 3.1. All obligations imposed by the Contract,
- 3.2. Complying in every respect with the requirements and the considerations of the Specifications and Drawings,
- 3.3. Labor for all scope of works and all associated costs,
- 3.4. Materials and goods and all associated costs,
- 3.5. Use of equipment and tools,
- 3.6. Any additional labor usually associated with measured items.
- 3.7. All necessary protection of the Works and removal of all temporary coverings and supports,
- 3.8. All utilities such as electricity, water, etc.,
- 3.9. Repair works on all damaged portions affected by the Works,
- 3.10. Cleaning of site, cleaning, and hauling of debris,
- 3.11. All safety and health aspects of the Works,
- 3.12. All required materials tests and its associated costs,
- 3.13. All applicable taxes, duties, charges, and relevant permits,
- 3.14. Overhead & profit.

4. Bidder's Priced Bill of Quantities

2. The Bidder shall present the detailed breakdown of the **Bid Price** using the form **Bill of Quantities** in Microsoft Excel format which should be downloaded from the File Folder "**Refurbishment of College of Engineering Student Center**" with the file name "**Bill of Quantities**", from the TSU website: <https://www.tsu.edu.ph/opportunities/bid-opportunities/2025-bid-opportunities/>

- 4.1. The Bidder shall provide the following information or data in the spaces provided

- 4.1.1. [*Bidder's Letterhead*],
- 4.1.2. [*Date*],
- 4.1.3. [*Signature*],
- 4.1.4. [*Name of Authorized Signatory*], and
- 4.1.5. [*Title/Position of Authorized Signatory*].

- 4.2. The contents of the following columns shall not be altered or removed: Column Heading (column number)

- 4.2.1. **Item No. (1)**,
- 4.2.2. **Work Description (2)**

4.2.3. **Quantity. (5)**, and

4.2.4. **Unit (6)**.

4.3. For the rows with entries in the columns **5** and **6**, the Bidder shall provide the following prices, in Philippine peso, in the appropriate columns: Column Heading (column number)

4.3.1. **Direct Cost (7)** – the aggregate cost of materials, labor, and equipment utilization,

4.3.2. **Indirect Cost (8)** – the sum of overhead cost, contingency, miscellaneous, and profit,

4.3.3. **Total Direct & Indirect Cost (9)** – the sum of the values in columns **(7)** and **(8)**,

4.3.4. **Value Added Tax (10)** – the tax to be charged for the work item,

4.3.5. **Total Cost (11)** – the sum of the values in columns **(9)**, and **(10)**, and

4.4. The Sub-Total for every work cluster shall be the sum of all priced items included in that section.

4.5. The Total Bid Price shall be the sum of all the total cost for the priced work items and shall be stated in words and figures in the spaces provided at the bottom row of the table.

4.6. The Bid shall be deemed “**non-responsive**” if a price is required for a work item, but no price is indicated. Placing a zero (0) or a dash (-) in the cells that requires prices shall be interpreted to mean that the work item is being offered at no cost or for free by the Bidder.

4.7. The printed Priced BOQ shall be duly signed and all pages must bear the signature or initial of the authorized signatory of the Bidder.

5. Detailed Estimate

3. The specific costs (Material, Labor & Equipment, etc.) for the work items in the Priced BOQ shall be obtained from the detailed estimates using the form for **Detailed Unit Price Analysis**, in Microsoft Excel format which should be downloaded from the File Folder “**Refurbishment of College of Engineering Student Center**” with the file name “**DUPA**”, from the TSU website: <https://www.tsu.edu.ph/opportunities/bid-opportunities/2025-bid-opportunities/>

5.1. The unit Man-Days used in the DUPA shall mean the number of days for one man to complete the task or for the number of men required to complete the task in one day (e.g., 8 Man-Days = 1 Man x 8 Days = 2 Men x 4 Days = 4 Men x 2 Days = 8 Men x 1 Day).

6. Bidder’s Responsibility

6.1. It shall be the responsibility of the Bidder to verify that the unit and quantity indicated in the DUPA for a particular work item are the same as those in the Bill of Quantities for the same work item.

Section IX. Checklist of Technical and Financial Documents

This Checklist of Technical and Financial Documents is provided to guide the Bidder in preparing his/her bid. The checklist may be used by the Bidder to verify if the Bid includes all the prescribed documents.

The Bidder, in submitting the required documents, must use the prescribed forms found in Section X. Bidding Forms. However, should a bidder choose to use a different formatting style for a required document, the bidder must ensure that the substance in the form given in Section X for that particular document is substantially captured in the equivalent document.

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 bidder's computation of Net Financial Contracting Capacity (NFCC).

Class "B" Documents

- (i) If applicable, duly signed joint venture agreement (JVA) in accordance with RA No. 4566 and its IRR in case the joint venture is already in existence or duly notarized statements from all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful.

II. FINANCIAL COMPONENT ENVELOPE

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

Other documentary requirements under RA No. 9184

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

Section X. Bidding Forms

TABLE OF CONTENTS

I. Eligibility and 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;	46
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	47
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	48
	Organizational chart for the contract to be bid	50
	Note: There is no TSU prescribed form. The Bidder may follow any appropriate format. However, the required Key Personnel must be reflected in the Chart, and it shall be duly signed.	
f.	List of contractor's key personnel (<i>e.g.</i> , Project Manager, Project Engineers, Materials Engineers, and Foremen), to be assigned to the contract to be bid, with their complete qualification and experience data;	51
	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	53
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.	54
h.	The bidder's computation of Net Financial Contracting Capacity (NFCC).	56
II. Financial Documents		
j.	Financial Bid Form	57
k.	Bid Prices in the Bill of Quantities	
	Note: Bidder should download and use the Bill of Quantities in Microsoft Excel format provided in the File Folder " Refurbishment of College of Engineering Student Center " with the file name " Bill of Quantities " from the TSU website: www.tsu.edu.ph .	
l.	Detailed estimates, including a summary sheet indicating the unit prices of construction materials, labor rates, and equipment rentals used in coming up with the Bid.	
	Note: Bidder should download and use the Detailed Unit Price Analysis in Microsoft Excel format provided in the File Folder " Refurbishment of College of Engineering Student Center " with the file name " DUPA " from the TSU website: www.tsu.edu.ph .	
m.	Cash Flow by quarter or payment schedule	
	Note: There is no TSU prescribed form. The Bidder may use any appropriate form which must be duly signed.	

[Bidder's Letterhead]

[Date]

To: Tarlac State University
Re: Invitation to Bid No.

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

Row 1: Name of Contract Row 2: Location	Contract Price	Row 1: Procuring Entity/Owner Row 2: Address Row 3: Contact Person/Tel. No.	Nature of Work	Contract Duration	Date of Award	Date Started	Date Completed

Attached herewith are the following documents: Contract Agreement, Notice of Award, Notice to Proceed, Certificate of Final Inspection, Certificate of Acceptance, and CPES (or equivalent performance evaluation rating), as evidence in support of the foregoing information.

I/We certify that the foregoing information and all the supporting documents are true and correct.

[Signature]
[Name of Bidder]

Bid-Securing Declaration

Republic of the Philippines
City/Municipality Of _____) S.S.

X-----X

Invitation to Bid [*Insert reference number*]

To: **Tarlac State University**

I/We, the undersigned, declare that:

1. I/We understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid-Securing Declaration.
2. I/We accept that: (a) I/we will be automatically disqualified from bidding for any contract with any procuring entity for a period of two (2) years upon receipt of your Blacklisting Order; and, (b) I/we will pay the applicable fine provided under Section 6 of the Guidelines on the Use of Bid Securing Declaration, within fifteen (15) days from receipt of written demand by the procuring entity for the commission of acts resulting to the enforcement of the bid securing declaration under Sections 23.1(b), 34.2, 40.1 and 69.1, except 69.1 (f), of the IRR of RA 9184; without prejudice to other legal action the government may undertake.
3. I/We understand that this Bid-Securing Declaration shall cease to be valid on the following circumstances:
 - a. Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
 - b. I am/we are declared ineligible or post-disqualified upon receipt of your notice to such effect, and
 - i) I/we failed to timely file a request for reconsideration or
 - ii) I/we filed a waiver to avail of said right;
 - c. I am/we are declared as the bidder with the Lowest Calculated Responsive Bid, and I/we have furnished the performance security and signed the Contract.

IN WITNESS WHEREOF, I/We have hereunto set my/our hand/s this _____ day of [*month*] [*year*] at [*place of execution*].

[Signature]
[Name of Bidder's Authorized Representative
[Signatory's legal capacity]
Affiant

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

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

[Name and Signature of Notary Public]

Serial No. of Commission _____

Notary Public for _____ **until** _____

Roll of Attorneys No. _____

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

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

Doc. No. ____

Page No. Book

No. Series of _.

[Bidder's Letterhead]

[Date]

To: Tarlac State University
Re: Invitation to Bid No.

We certify that, if the Contract covered by the aforementioned Invitation to Bid is awarded to [BIDDER], we shall employ the following persons to occupy the key positions of the workforce which shall be deployed to implement the project.

LIST OF KEY PERSONNEL		
Name	Position	Duties and Responsibilities
	Civil Engineer / Architect <i>(Project In-charge)</i>	
	Master Electrician	
	Safety Officer	
	Foreman	

Attached herewith are the Curriculum Vitae of the above-named persons for your evaluation.

[Signature]
[Name of Bidder/Authorized Representative]

[Bidder's Letterhead]

[Date]

To: Tarlac State University
 Re: Invitation to Bid No.

CURRICULUM VITAE OF KEY PERSONNEL

POSITION			NAME		
DATE OF BIRTH	HEIGHT	WEIGHT	SEX	CIVIL STATUS	NATIONALITY
PROFESSION			PRC ID NO.	DATE OF REGISTRATION	VALID UNTIL
HOME ADDRESS			CURRENT STATUS OF EMPLOYMENT		
			COMPANY/ ADDRESS	POSITION	
RELEVANT WORK EXPERIENCE					
COMPANY/ADDRESS		POSITION	BRIEF JOB DESCRIPTION		INCLUSIVE DATES
RELEVANT TRAININGS					
TITLE OF TRAINING		INCLUSIVE DATES	PLACE	TRAINING PROVIDER	
EDUCATIONAL QUALIFICATIONS					
DEGREE EARNED (Please enumerate all; if not a college graduate, indicate highest level of education earned)			YEAR GRADUATED	NAME OF INSTITUTION	

I certify that the information furnished above are true and correct and that I have voluntarily furnished the foregoing information on my own free will.

I further certify that, if the Contract covered by the aforementioned Invitation to Bid is awarded to [BIDDER], I shall willingly assume the position of [POSITION] for the [BIDDER].

[Signature]
[Name of Prospective Key Personnel]

We certify that, if the Contract covered by the aforementioned Invitation to Bid is awarded to [BIDDER], we shall engage the services of [Name of Prospective Key Personnel] as the [POSITION] for the entire duration of the project covered by the Contract, in accordance with the law.

[Signature]
[Name of Bidder/Authorized Representative]
[Position or Title]

[Bidder's Letterhead]

[Date]

To: Tarlac State University

Re: Invitation to Bid No.

We certify that, if the Contract covered by the aforementioned Invitation to Bid is awarded to [BIDDER], we shall provide and use the equipment listed below in the implementation of the project.

List of Major Equipment									
		Qty.	Model/Year Manufactured	Capacity/Size	Plate No. (if applicable)	Motor No./Body No. (if applicable)	Present Location	Condition	Mode of Acquisition (Owned or Leased)
1.									
2.									
4.									
6.									
7.									
8.									
9.									
10.									

Attached herewith are the *Certificate(s) of Registration, Official Receipt(s), and Lease Agreement(s)* for the aforementioned equipment.

[Signature]

[Name of Bidder or Authorized Representative]

[Position or Title]

Omnibus Sworn Statement (Revised)

REPUBLIC OF THE PHILIPPINES)
CITY/MUNICIPALITY OF _____) S.S.

A F F I D A V I T

I, [Name of Affiant], of legal age, [Civil Status], [Nationality], and residing at [Address of Affiant], after having been duly sworn in accordance with law, do hereby depose and state that:

1. *[Select one, delete the other:]*

[If a sole proprietorship:] I am the sole proprietor or authorized representative of [Name of Bidder] with office address at [address of Bidder];

[If a partnership, corporation, cooperative, or joint venture:] I am the duly authorized and designated representative of [Name of Bidder] with office address at [address of Bidder];

2. *[Select one, delete the other:]*

[If a sole proprietorship:] As the owner and sole proprietor, or authorized representative of [Name of Bidder], I have full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached duly notarized Special Power of Attorney;

[If a partnership, corporation, cooperative, or joint venture:] I am granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached [state title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate, Board/Partnership Resolution, or Special Power of Attorney, whichever is applicable)];

3. [Name of Bidder] is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, **by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting;**

4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;

5. [Name of Bidder] is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;

6. *[Select one, delete the rest:]*

[If a sole proprietorship:] The owner or sole proprietor is not related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

[If a partnership or cooperative:] None of the officers and members of *[Name of Bidder]* is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

[If a corporation or joint venture:] None of the officers, directors, and controlling stockholders of *[Name of Bidder]* is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

7. *[Name of Bidder]* complies with existing labor laws and standards; and
8. *[Name of Bidder]* is aware of and has undertaken the responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:
 - a. Carefully examining all of the Bidding Documents;
 - b. Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
 - c. Making an estimate of the facilities available and needed for the contract to be bid, if any; and
 - d. Inquiring or securing Supplemental/Bid Bulletin(s) issued for the *[Name of the Project]*.
9. *[Name of Bidder]* did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.
10. In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.

IN WITNESS WHEREOF, I have hereunto set my hand this ___ day of ___ 20__ at _____, Philippines.

[Insert NAME OF BIDDER OR ITS AUTHORIZED REPRESENTATIVE]

[Insert signatory's legal capacity]

Affiant

[Jurat]

[Format shall be based on the latest Rules on Notarial Practice]

[Bidder's Letterhead]

[Date]

To: Tarlac State University
Re: Invitation to Bid No.

NET FINANCIAL CONTRACTING CAPACITY

Based on our Income Tax Return and Audited Financial Statement for the Fiscal Year [YEAR], duly submitted to the Bureau of Internal Revenue, and which form part of our Bid, the summary of our firm's financial condition is as given below:

		Year [YEAR]
1.	Total Assets	
2.	Current Assets	
3.	Total Liabilities	
4.	Current Liabilities	
5.	Net Worth (1-3)	
6.	Net Working Capital (2-4)	

Based on the aforementioned data and the Value of Outstanding Works from the Statement of All Ongoing Government and Private Contracts, which also form part of our Bid, our Net Financial Contracting Capacity (NFCC) is:

NFCC = [(current asset minus current liabilities) (**15**)] minus [value of all outstanding or uncompleted portions of the projects under ongoing contracts including awarded contracts yet to be started coinciding with the contract to be bid].

NFCC =

I/We certify that the foregoing information and all of the supporting documents are true and correct. ⁵⁶

[Signature]
[Name of Bidder or Authorized Representative]
[Position or Title]

[Bidder's Letterhead]

[Date]

FINANCIAL BID FORM

To: Tarlac State University

Re: Invitation to Bid No:

We, the undersigned, declare that:

- (a) We have examined and have no reservation to the Bidding Documents, including Addenda, for the Contract [insert name of contract];
- (b) We offer to execute the Works for this Contract in accordance with the Bid and Bid Data Sheet, General and Special Conditions of Contract accompanying this Bid;

The total price of our Bid, excluding any discounts offered below is: [insert information];

The discounts offered and the methodology for their application are: [insert information];

- (c) Our Bid shall be valid for a period of [insert number] days from the date fixed for the Bid submission deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (d) If our Bid is accepted, we commit to obtain a Performance Security in the amount of [insert percentage amount] percent of the Contract Price for the due performance of the Contract;
- (e) Our firm, including any subcontractors or suppliers for any part of the Contract, have nationalities from the following eligible countries: [insert information];
- (f) We are not participating, as Bidders, in more than one Bid in this bidding process, other than alternative offers in accordance with the Bidding Documents;
- (g) Our firm, its affiliates or subsidiaries, including any subcontractors or suppliers for any part of the Contract, has not been declared ineligible by the Funding Source;
- (h) We understand that this Bid, together with your written acceptance thereof included ⁵⁷in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed; and
- (i) We understand that you are not bound to accept the Lowest Calculated Bid or any other Bid that you may receive.
- (j) **We likewise certify/confirm that the undersigned, is the duly authorized representative of the bidder, and granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for the [Name of Project] of the [Name of the Procuring Entity].**
- (k) **We acknowledge that failure to sign each and every page of this Bid Form, including the Bill of Quantities, shall be a ground for the rejection of our bid.**

Name: _____

In the capacity of: _____

Signed: _____

Duly authorized to sign the Bid for and on behalf of: _____

Date: _____