

PROJECT NAME: REHABILITATION OF ARCHITECTURE BUILDING

LOCATION: Bataan Peninsula State University, Main Campus

SECTION 1: THE PROJECT

3. PROJECT DESCRIPTION:

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PROJECT NAME:	Rehabilitation of Architecture Building			
LOCATION:	Bataan Peninsula State University, Main Campus			
APPROVED BUDGET FOR CONTRACT (ABC):	Php. 1,462,205.93			
PROJECT DURATION:	45 Calendar Days			

GENERAL SCOPE OF WORK:

Rehabilitation of Architecture Building at Main Campus with the following work breakdown:

- Ceiling Works
- 2. Tile works
- 3. Doors and Windows
- 4. Supply and Installation of Plumbing fixtures
- 5. Electrical works
- 6. Supply and Installation of Faculty Furniture
- 7. Painting works

II. OBJECTIVES:

- 1. To provide a background information regarding the proposed project which should be handled in the shortest possible time, at an acceptable quality and performance to the contractor.
- 2. To outline the "Scope of work" that has to be performed under the terms of its contract.
- 3. To create a Safe, Functional and Energy Efficient Building considering all specification given and space requirements and ready to use building.

- END OF SECTION -

SECTION 2: TECHNICAL SPECIFICATIONS

DIVISION 01: GENERAL REQUIREMENTS

1. The work covered under this Contract consists of the furnishing all materials, labor, equipment, transportation, incidentals, facilities, and superintendence necessary to complete the project.



TERMS OF REFERENCE & TECHNICAL SPECIFICATION

- 2. The Contractor is expected and **required** to attend the important phases of the bidding process of the said project. All concerns and questions shall be discussed on the Pre-Bid Phase.
- 3. The Contractor shall be responsible for carefully examining, comparing and verifying the data furnished by the Plans and specifications, the Contractor shall submit the matter to the Architect or his authorized representative for the proper explanation or necessary correction, before any adjustment shall be made. Any adjustment by the Contractor without such determination shall be at his risk and expense.
- **4.** Omitted or wrongly described details of work, which are manifestly necessary to carry out the true intent of the drawings and specifications, shall be performed as if fully and correctly set forth and described in the drawings and specifications.
- **5.** The procuring entity may, from time to time, make changes in the specifications and construction drawings. However, if the cost to the Contractor shall be materially increased by such change, the Procuring Entity shall pay the Contractor for the reasonable cost in accordance with the changes.
- **6.** The contractor shall comply with the laws, City or Municipal Ordinances and all government specifications and regulations in so far as they are binding upon or affecting the portion the work hereto. The Contractor or those engaged thereon shall obtain all necessary licenses and permits and pay all taxes or fees, which may due to the local and/or National Government in connection with the prosecution of the work. He shall also be responsible for all damages to persons or property that may occur.
- 7. Unless otherwise specified, all materials shall be new and free from defects and imperfection. The quality of materials shall be of the best grade of their respective kinds for the purpose. The work shall be performed in the best and acceptable manner in strict accordance with the requirements of the Plans and Specifications. Preference will be given to articles or materials that are locally manufactured, conditions of quality and price being equal.
- **8.** When called for by the Architect / Engineer, the Contractor shall furnish, for approval, full information and satisfactory evidence as to the kind and quality of materials or articles he will incorporate in the work. The contractor shall furnish, for Architect's approval, all samples when so directed.
- **9.** The work shall be in accordance with approved samples. Materials and articles installed or used without such approval shall be at the risk of subsequent rejection. Any failure on the part of the Contractor to conform use materials that are not specified herein shall be under subsequent rejection, unless subject for approval.



TERMS OF REFERENCE & TECHNICAL SPECIFICATION

- **10.** Any alteration or revision of material usage without approval from the Architect / Engineer shall make the Contractor responsible and liable in terms of guarantee, workmanship and defects.
- **11.** Workmanship shall be in accordance with the best standard practices and all operations required under any and all parts of the Specification shall be undertaken in a neat, workman-like manner. Only skilled personnel with sufficient experience in similar operations shall be allowed to undertake the same.
- **12.** Any alteration or revision on the execution of drawings without approval from the Architect / Engineer shall be under subsequent rejection and shall make the Contractor responsible and liable for any workmanship and execution defects.
- **13.** Defective workmanship shall be remedied by the Contractor, at his expense. He shall not be entitled to any payment hereunder until defective workmanship has been remedied.
- **14.** The Contractor shall provide and maintain adequate weather-tight facilities with water, light, and toilet facilities. He shall keep such places clean and free from flies. He shall remove all connections and appliances connected there with prior to the completion of the Contract and leave the premises perfectly clean.
- **15.** The Contractor shall furnish all temporary water, lights and power and shall pay all expenses in connection therewith. Furthermore, the Contractor shall provide and pay for all water expenses for building purposes that are required by all trades.
- 16. The Contractor shall put up safety measures and continuously maintain adequate protection of all his work from damage and shall protect the Procuring Entity's property, as well as all materials furnished and delivered to him by the Entity. He shall make good any such damage, injury or loss, except such as may be caused by agents or employees of the Procuring Entity, or due to causes considered as an Act of God.
- **17.** The Contractor shall enclose the site he possessed by a security fence with gate. Seethrough security fence shall not be allowed.
- **18.** With respect to the construction of the buildings and other structures, the design and specifications shall conform to the standards set by:
 - a. Department of Public Works and Highways (DPWH)i. DO_39_S2020
 - National Building Code of the Philippines (NBCP) National Structural Code of the Philippines, 2010



- c. Sanitary Code of the Philippines
- d. National Plumbing Code of the Philippines
- e. Accessibility Law (BP344)
- f. Fire Code of the Philippines (RA 9514)
- g. Philippine Environmental Code (P.D. 1152)

DIVISION 02: SITE CONSTRUCTION

VERIFICATION OF EXISTING CONDITIONS

Verify and examine the site of work to familiarize with the character of materials to be encountered and all other existing conditions affecting the work.

SUBSTITUTION OF MATERIALS

Should the contractor desire to substitute any material or brand or manufacturer other than those specified material proposed, the substitution must be equal or superior in quality to the material specified in the specifications. The Contractor shall submit to the Architect or Engineer a written request signed by Material Engineer for approval for the proposed substitution and if possible, shall be accompanied by samples of the proposed substitution.

DIVISION 3 – MATERIAL SPECIFICATIONS

1.0	CEILING WORKS	Use Fiber cement board 1/4 " thk in metal furring and carrying channel for Ar. Studio 1 and 2	
2.0	TILEWORKS	-Faculty room 60x60 polished -Meeting room 60x60 polished -Faculty toilet 30x60 wall tiles granite -Faculty toilet 30x30 floor tiles unpolished granite -Students' toilet 30x60 wall tiles granite -Students' toilet 30x30 floor tiles unpolished granite	
3.0	DOORS AND WINDOWS	 Solid Panel Door - for faculty main entry, & meeting room Glass partition w/ door - for plate submission area Upvc Awning windows for ARSTUDIO 1,2 & faculty room 	



4.0	PLUMBING FIXTURES	 Dual Flush water closet for faculty toilet Lavatory for faculty toilet Stainless Bidet Vanity / facial mirror 	
5.0	ELECTRICAL	Additional light for ARStudio 1,2 & 3 Replacement of busted lightings Additional aircon wires for Split Type ACU - 2 for faculty room Split Type ACU - 1 for AR Studio 1 Split Type ACU - 1 for AR Studio 2 Split Type ACU - 1 for AR Studio 3	
6.0	FURNITURES	Additional Shelves for plate submission area Shelves for faculty room 4 office tables w/ drawers	
7.0	PAINTING WORKS	Repainting of interior walls	

SECTION 3: PROJECT COST ESTIMATES

The bidders shall submit the quantities and cost of the different types of works to be carried out in accordance with DPWH Department Order No. 72 series of 2012 dated October 5, 2012. In particular, the quantities and cost of each work item shall be calculated and a bill of quantities shall be prepared. The bidders shall draw up a unit price analysis for each of the main pay work items.

The unit price of each of the main work pay items shall include:

- A. Cost of the Preliminary and Detailed Architectural and Engineering Design Should be in accordance with NEDA guidelines.
- B. Construction Cost of the Project;
 - 1. The Direct Cost are the following:
 - a. Cost of Materials to be used in doing the work item called for, which shall include the following:
 - a.1. Cost of source, including processing, crushing, stockpiling, loading, local taxes, construction and/or maintenance of haul roads, etc.
 - a.2. Expenses for hauling to project site.
 - a.3. Handling expenses
 - a.4. Storage
 - a.5. Allowance for waste and/or losses, not to exceed 5% of materials requirement.
 - b. Cost of Labor:
 - b.1. Salaries and wages as authorized by the Department of Labor and Employment
 - c. Equipment Expenses:



- c.1. Rental of equipment which shall be based on the prevailing "Associated Construction Equipment Lessors, Inc." (ACEL) rental rates approved for use by the DPWH (Presently it is the 2009 ACEL Rates). Rental rates of equipment not indicated in the ACEL booklet shall be taken from the rental rates prepared by the DPWH Bureau of Equipment. For simplicity in computation, the operated rental rates are preferred over the bare rental rates as the former includes operator's wages, fringe benefits, fuel, oil, lubricants and equipment maintenance. The make, model and capacity of the equipment should be indicated in the detailed unit cost analysis.
- c.2. Mobilization and demobilization, shall be treated as a separate pay item. It shall be computed based on the equipment requirements of the project stipulated in the proposal and contract booklet. In no case shall mobilization and demobilization exceed 1% of the Estimated Direct Cost (EDC) of the civil works items.
- 2. The Indirect Cost shall consist of the following:
 - a. Overhead Expenses ranges from 5 8% of the EDC, which includes the following:
 - a.1. Engineering and Administrative Supervision.
 - a.2. Transportation allowances.
 - a.3. Office Expenses, e.g., for office equipment and supplies, power and water consumption, communication and maintenance.
 - a.4. Premium on Contractor's All Risk Insurance (CARI). Financing Cost.
 - Premium on Bid Security
 - Premium on Performance Security
 - Premium on Surety for Advance Payment
 - Premium on Warranty Bond (one year)
- b. Contingencies ranges from 0.5-3% of the EDC. These include expenses for meetings, coordination with other stakeholders, billboards (excluding Project Billboard which is a pay item under the General requirements), stages during ground breaking & inauguration ceremonies and other unforeseen events
- c. Miscellaneous Expenses ranges from 0.5 1% of the EDC. These include laboratory tests for quality control and plan preparation.
- d. Contractor's Profit Margin shall be 8% of EDC: for projects above Php5 Million and 10% for projects Php5Million and below
- e. VAT Component shall be 7% of the sum of the EDC, OCM and Profit. The following items shall not be subjected to OCM and Profit mark-up:
 - e.1. Mobilization and demobilization
 - e.2. Provision of Service Vehicle



- f. The following non-civil works items shall not be subjected to OCM mark-up:
 - f.1. Field/Laboratory Office & Living Quarters (Rental Basis)
 - f.2. Furnishing, Laboratory Equipment, Survey Equipment and Consumables
 - f.3. Assistance to the Engineers
 - f.4. Photographs
 - f.5. Health and Safety
 - f.6. Traffic Management
 - f.7. Environmental Compliance
 - f.8. Communication Equipment, etc.

SECTION 4: CONSTRUCTION PHASE CONSIDERATIONS 1.

Permits and Clearance

The contractor shall, upon authorization of the Municipal Government, make representations with the government agencies concerned to expedite the release of the same. Obtain and pay the corresponding fees for all necessary approvals, permits and certificates such as the following:

- 1. Building Permit
- 2. Certificate of Completion of the Building and Occupancy Permit
- 3. All other permits as may be required for the construction

2. Mobilization

The contractor shall mobilize all the required project team personnel, equipment, tools and manpower with the required skills and insufficient number as may be necessary for his efficient undertaking of the project.

3. Construction Proper

The contractor shall prosecute all the works under the contract in strict accord with standard engineering methodology and procedures and shall be responsible for maintaining cleanliness and orderliness in the project area throughout the duration of the contract. The Contractor shall deploy qualified workers with necessary certification.

4. Electrification

The contractor shall pay to the local power utility the cost of providing the additional electrical distribution facilities for the project.

5. Material Testing

All material testing shall be conducted by the accredited testing laboratories.

6. **Subcontracts**

Subcontracting is NOT ALLOWED.



7. Key Personnel

The key personnel must meet the required minimum years of experience set below:

Key Personnel	General Experience	Relevant Experience
1 – Project Engineer/ Manager (must be Electrical Engineer)	5 years	3 years
1 – Safety Officer 3	Completed 88 hours	n/a
1 – Foreman	10 years	5 years
5 – Skilled	5 years	3 years
5 – Helper	1 year	1 year

8. Equipment

The minimum major equipment requirements are the following:

Equipment	Capacity	Number of Units
none		

9. Construction Waste Disposal

The contractor shall submit list of construction waste disposal inventory to BPSU. All debris and other materials resulting from the demolition work shall be immediately removed from the premises and dumped at sites provided by the Contractor in a manner approved by the end-user.

SECTION 5: SUBMITTALS

I. BIDDING REQUIREMENTS:

A. Documents Comprising the Bid: Eligibility and Technical Components 4 Copies (1 original copy and 3 triplicate copies) of bid documents

- a. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section IX. Checklist of Technical and Financial Documents**.
- b. 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. 132019 dated 23 May 2019. The English translation shall govern, for purposes of interpretation of the bid.



TERMS OF REFERENCE & TECHNICAL SPECIFICATION

- c. 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.
- d. 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**.

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**.

e. Construction safety and health program duly signed by the safety officer

B. Documents Comprising the Bid: Financial Component

4 Copies (1 original copy and 3 triplicate copies) of bid documents

- a. The second bid envelope shall contain the financial documents for the Bid as specified in **Section IX. Checklist of Technical and Financial Documents**.
- b. Any bid exceeding the ABC indicated in paragraph 1 of the IB shall not be accepted.
- c. 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.

END OF SECTION -

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TERMS OF REFERENCE & TECHNICAL SPECIFICATION

Noted by:

Dr. Alfredo D. Valentos, PME PPES Director

Recommending Approval by:

Approved by:

(ORIGINAL COPY SIGNED)

(ORIGINAL COPY SIGNED)

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