



TERMS OF REFERENCE & TECHNICAL SPECIFICATION

PROJECT NAME: Installation, Testing and Commissioning of Electrical Supply for College of Nursing and Midwifery (CNM) at BPSU Main Campus

LOCATION: Bataan Peninsula State University, Main Campus

SECTION 1: THE PROJECT

I. PROJECT DESCRIPTION:

PROJECT NAME:	Installation, Testing and Commissioning of Electrical Supply for College of Nursing and Midwifery (CNM) at BPSU Main Campus
LOCATION:	Bataan Peninsula State University, Main Campus
PROJECT DURATION:	150 calendar days

Scope of work:

- 1. Construction of Transformer Pad
- 2. Extension of Primary line & metering (coordinate to Penelco)
- 3. Mounting of Panel Board and wirings
- 4. Banking and Metering
- 5. Tapping of Existing wire to 500 AT, 3P Branch inside the transformer pad
- 6. Provide pvc conduit for 225 AT, 3P Branch inside the transformer pad with entrance cap
- 7. Testing and Commissioning

II. OBJECTIVES:

- 1. To provide a permanent Electrical supply of CNM Building at Main Campus.
- 2. To provide Safe, Functional and ready to use CNM Building in terms of electrical supply.

- END OF SECTION -

SECTION 2: TECHNICAL SPECIFICATIONS

QTY:	DESCRIPTIONS:
1 set	Panel Board 600 AT, 3P Main, Branches 500 AT, 3P and 225 AT, 3P, Bolt on type
100 m	For wires, use THHN Cu.



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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.

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).



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a.5. 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 12% 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

SECTION 4: CONSTRUCTION PHASE CONSIDERATIONS

1. 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.

2. 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.

3. Electrification

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

4. Material Testing

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

5. Subcontracts

Subcontracting is not allowed.



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6. Key Personnel

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

Key Personnel	General Experience	Relevant Experience
1 – REE / RME	5 years	5 years
1 – Foreman	10 years	5 years
1 – Electrician	5 years	5 years
5 – Mason-Carpenter	5 years	3 years
4 – Helper	1 year	1 year

SECTION 5: SUBMITTALS

I. BIDDING REQUIREMENTS:

1. Documents Comprising the Bid: Eligibility and Technical Components

4 Copies (1 original copy and 3 duplicate 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. 13-2019 dated 23 May 2019. The English translation shall govern, for purposes of interpretation of the bid.
- 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

2. Documents Comprising the Bid: Financial Component



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4 Copies (1 original copy and 3 duplicate 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.

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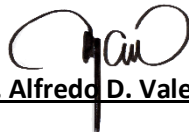
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