



Republic of the Philippines
CAVITE STATE UNIVERSITY
 Don Severino delas Alas Campus
 Indang, Cavite

BILL OF QUANTITIES

PROJECT: IMPROVEMENT OF ELECTRICAL POWER SYSTEM OF CEMDS NEW AND OLD BUILDING ABC: ₱ 2,891,322.66 COLLEGE/UNIT/CAMPUS: CEMDS/MAIN CAMPUS					
				Bill of Quantities	
Item No.	Description	Unit	Quantity	Unit Price (Pesos)	Amount (Pesos)
I	MOBILIZATION (Pesos _____ _____ and _____ centavos)				
II	EARTHWORKS (Pesos _____ _____ and _____ centavos)				
III	ELECTRICAL WORKS (Pesos _____ _____ and _____ centavos)				
GRAND TOTAL					_____
Write grand total in words		_____ _____ _____			

Submitted by: _____ Date: _____
 Name of Bidder/Bidder's Representative: _____
(Signature over Printed Name)
 Position: _____
 Construction Company/Contractor: _____

CAVITE STATE UNIVERSITY

SCOPE OF WORK:

A. IMPROVEMENT OF ELECTRICAL POWER SYSTEM OF CEMDS NEW AND OLD BUILDING

GENERAL NOTES:

1. The project should be finished in 45 calendar days.
2. Site inspection is a must. Verify actual site condition.
3. This set of specifications shall govern the methods of construction and the kinds of materials to be used for the proposed project shown in the plans and detailed drawings.
4. All parts of the construction shall be finished with first class workmanship, to the fullest talent and meaning of the plans and these specifications, and to the entire satisfaction of the project inspector and the end-user.

B. Technical Description

I. Mobilization

A. Mobilization/Demobilization

Provide the following:

1. Billboard with project information
2. Bunkhouse with office
3. Temporary comfort rooms
4. Site temporary enclosure may be blue sack or any suitable materials that may enclose the workplace.
5. Demobilization includes cleaning up of site, clearing, hauling and disposal of waste and construction debris.
6. The area should be cleared/cleaned before and after construction work at least six meters away from the building line. Notify the end-user regarding the properties that need to be hauled away from the site prior to construction.

II. EARTHWORKS

1. This work includes excavation for the location of three units of concrete poles and truss guy support.
2. Consult the project inspector for the other scope and technical details of the project.

III. Electrical Works

1. Supply and installation of 3-167 kVA distribution transformer and primary concrete poles. Submit transformer testing results and certifications to project inspectors.
 - a) Amorphous distribution transformers 167 kVA, 13.8 kV/230V, 60 Hz, pole mounted (3 units) complete with transformer accessories (fuse cut-out, lightning arresters, fuse links, risers, connectors, etc.).
 - b) 2-13.5m primary concrete pole, class 3A, complete with pole dressing, insulators, pole grounding, pole steel band and accessories.
2. Supply and installation of secondary concrete pole with pole dressing, insulators, pole grounding and guy support. Refer to the plan for the exact location.
 - a) 1-9.5m concrete pole, class 3A, complete with pole dressing, insulators, pole grounding.
 - b) Truss guy support for CP 1 and CP 2.
3. Supply and installation 3 sets of 2-250 sq. mm. THHN and 3-50 sq. mm. THHN as ground wire (99.9% copper, fire retardant) including messenger wire from distribution transformers to the existing concrete pedestal of CEMDS building.
4. Cut the existing secondary wire of CEMDS building to its electrical source and re-connect to the newly installed secondary line.
5. Include tapping to source, testing and commissioning. Provide the necessary connectors and equipment for the wiring installation.
6. Consult inspectors for details and extent of work.

Note: Transformer/electrical testing and guarantee, electrical supervision and final electrical inspection report should be signed and sealed by Professional Electrical Engineer with notary public. The Distribution Transformers should be brand new with certificate and warranty from the supplier.

C. Contractor of the said project must provide an as-built plan of the project at the end of the contract as a requirement for the release of their final billing.

D. Contractor's PCAB license should have specialization in electrical works.

- E. For color/types of any fixtures or materials to be used on site, consult the end-user and the inspector for approval. Consult the plan and the scope of work for the extent of tasks of the contract. If possible, let the end-user sign your sample as proof of approval.
- F. The plans, detailed drawings and these specifications shall be considered as complementing each other, so that what is mentioned or shown in one, although not mentioned or shown in the other, shall be considered as appearing on both. **In case of conflict between the two, generally, the scope of work prevails.**
- G. Resident site engineer is a must for the projects to be undertaken by the contractor of the university. In cases where there are electrical works, it is required that an electrical engineer or a master electrician be a part of the contractor's team to supervise all electrical works. Safety engineer is a must as per DOLE requirement. **Note: All key personnel should be included in the list of personnel for submission.**
- H. In cases of participation in two or more projects, the set of workers and foreman shall be different per project, however, the set of engineers and equipment may be reused.
- I. Construction safety and health program as well as construction schedule (PERT/CPM/S-Curve) shall be provided by the winning bidder.
- J. All public utilities used by the winning contractor in the construction of the project, such as electricity, water, telephone, etc., shall be for the sole account of the contractor.
- K. See plans/consult the end-user and project inspector for details and extent of work. The silence of specifications, plans, special provisions and supplementary specifications as to any detail, or the apparent omission therein of detailed description or definition of the quality of materials and workmanship shall be regarded to mean that only materials and workmanship of first-class quality are to be used or employed.