



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

BILL OF QUANTITIES

IMPROVEMENT OF ELECTRICAL POWER SYSTEM AT TRECE CAMPUS – 2nd POSTING ABC: ₱1,553,929.77 COLLEGE/UNIT/CAMPUS: TRECE CAMPUS					
Bill of Quantities					
Item No.	Description	Unit	Quantity	Unit Price (Pesos)	Amount (Pesos)
I	MOBILIZATION (Pesos _____ _____ and _____ centavos)				
II	CONCRETE WORKS (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: _____
 Position: _____
 Construction Company/Contractor: _____

CAVITE STATE UNIVERSITY

SCOPE OF WORK:

A. IMPROVEMENT OF ELECTRICAL POWER SYSTEM AT TRECE CAMPUS – 2nd POSTING

GENERAL NOTES:

1. The project should be finished in 45 calendar days.
2. Site inspection is a must to verify its existing condition.
3. Provide the following:
 - Billboard
 - Bankhouse with office
 - Temporary comfort rooms
 - Site temporary enclosure may be blue sack or any suitable materials that may enclose the workplace.
4. The area should be cleared/cleaned before and after the construction work at least ten meters away from the building line. Unusable used formworks, excessive soil fill, and all other unwanted debris of construction works should be disposed properly.

B. Technical Description

I. Earthworks

A. Excavation

1. This work includes excavations of 1.5m. depth of pole settings.

B. Backfill

1. Boulders fill = 1.0 m thick
2. Earth backfill = 0.2 m thick

II. Concrete Works

A. Cast-in-place concrete

1. Concrete works include construction of the service entrance pedestal with 2 sets (back-to-back) of secondary attachments. See detailed drawing at E-3.
2. An additional sheet plan shows the structural details of the service entrance electrical posts.
3. Strength of concrete to be adopted shall be **3,000 psi**.
4. Concrete works should be plain cement finished.
5. Provide necessary tools and equipment needed for concrete works.

B. Steel Reinforcement

1. Use deformed bar grade 40. See plan for sizes of bars needed.

III. Electrical Works

A. Installation of secondary concrete pole

1. 6 pcs - 9.5m (32 ft) secondary concrete pole complete with secondary line accessories
2. CP7 and CP8 will be relocated near the Old Building. Consult the inspector for the exact location of the concrete poles.

B. Installation/Replacement of panel board enclosure and circuit breakers.

1. Installation of disconnecting switch (2 sets, back-to-back) in accordance with the plan.
2. Installation of MDP1 in accordance with the plan and their circuit breakers.
3. Replacement of main circuit breaker for MDP with 350AT/400AF/230V MCCB.
4. Bolt-on type Nema Standard should be used.
5. Tapping to the source is included.

C. Installation of wiring/conductors and PVC conduits/junction box/ utility box from main/sub-main.

1. THHN stranded wire, Phelps Dodge or approved equal.
2. RSC metallic conduit pipe with sizes as indicated in the plan.
3. PVC orange conduit pipe with sizes as indicated in the plan.
4. Utility/ Junction boxes should be covered.
5. All spliced connections should be connected with rubber and electrical tape.
6. Tapping to the source is included.

D. Energize the circuit breakers including tapping, testing and commissioning.

1. Contractor's representative should assist MERALCO crew during the energization, testing and commissioning of kwh electric meter and disconnecting switch.

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. 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. **Note: In the event that discrepancies on plans and scope of work occur, generally, the scope of work prevails.**

- E.** 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. Likewise, master plumbers must supervise plumbing works. It can be considered when only one person is the master plumber and master electrician at the same time as long as his major duty is supervision of both fields. Safety engineer is a must as per DOLE requirement. **Note: All key personnel should be included in the list of personnel for submission.**
- F.** 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.
- G.** Construction safety and health program as well as construction schedule (PERT/CPM/S-Curve) shall be provided by the winning bidder.
- H.** 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.