



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

**BILL OF QUANTITIES**

<b>IMPROVEMENT OF ELECTRICAL POWER SYSTEM - TRECE CAMPUS</b> <b>ABC: ₱1,553,929.77</b> <b>COLLEGE/UNIT/CAMPUS: TRECE CAMPUS</b>					
					<b>Bill of Quantities</b>
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)				
<b>GRAND TOTAL</b>					_____
<b>Write grand total in words</b>		_____ _____ _____			

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 - TRECE CAMPUS**

##### GENERAL NOTES:

1. The project should be finished for 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 service entrance pedestal with 2 sets (back-to-back) of secondary attachments. See detailed drawing at E-3.
2. Strength of concrete to be adopted shall be **3,000 psi**.
3. Concrete works should be plain cement finished.
4. Provide necessary tools and equipment needed for concrete works.

###### B. Steel Reinforcement<sup>5</sup>

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

###### 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. 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.