



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

**BILL OF QUANTITIES**

IMPROVEMENT OF SPORTS FACILITY PHASE II - 2nd Posting			Bill of Quantities		
ABC: ₱ 2,307,949.22					
COLLEGE/UNIT/CAMPUS: MAIN CAMPUS					
Item No.	Description	Unit	Quantity	Unit Price (Pesos)	Amount (Pesos)
I	MOBILIZATION (Pesos _____ _____ and _____ centavos)				
II	DISMANTLING & CHIPPING 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 SPORTS FACILITY PHASE II**

#### GENERAL NOTES:

1. The project should be finished in 60 calendar days.
2. Actual site inspection is a must.
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.
- B. Demobilization includes cleaning up of site, clearing, hauling and disposal of waste and construction debris. Restoration of any damages shall also be done before exiting the area.

##### **II. Dismantling and chipping works**

1. This work includes dismantling of 4 sets 12.0 meters existing steel post and spot/flood lights.
2. Chipping works for conduit pipe raceway.
3. Consult the project inspector for the other scope and technical details of the project.
4. The area should be cleared/cleaned before and after the construction work at least ten meters away from the building line. Unusable used components and all other unwanted debris of construction works should be disposed of properly. Notify the end-user regarding the properties that need to be hauled away from the site prior to construction.

##### **III. Electrical Works**

1. Supply and installation of panel board and circuit breakers.  
MDP - Main (100AT, 200AF, 2P, 230V, MCCB) and Branches (5-30 AT 2P, 1-spere)  
**Note:** Bolt-on type, NEMA Standard should be used.
2. Construction of underground concrete encasement raceway in accordance with the plan.
3. Supply and installation of copper conductor wires, PVC orange conduits, fabricated box and accessories from Distribution Transformer to MDP and MDP to spot/flood lights.
  - a. RSC metal conduit for service entrance.
  - b. PVC orange pipe for embedded conduit raceways.
  - c. THHN/THWN copper conductor wire and messenger wire. Phelps Dodge or approved equal and. Refer to Schedule of loads for proper color coding of wires.
  - d. Fabricated box should be galvanized steel.
  - e. Support brackets/hangers, clamps and rods should be galvanized steel.
4. Supply and installation of electrical fixtures in accordance with the plan.
  - a. LED spot/flood Light, 200 Watts (60 sets). See E-3 for details and specification.
5. Supply and installation steel post and concrete pedestal.
  - a. Steel post, 6.0 meters and concrete pedestal (15 sets). See E-3 for details and specification.
6. Restoration/repair and re-painting of walls to be chipped.
7. Electrical feeder line is to be connected from existing single phase distribution transformer to MDP as indicated in the plan. Provide the necessary connectors & equipment for the wiring installation.

8. Include tapping to the source, electrical testing and commissioning.
  - a. Continuity test.
  - b. Insulation test.
9. Consult inspectors for details and extent of work.

**Note:** Electrical testing and guarantee, electrical supervision and final electrical inspection report should be signed and sealed by Electrical Engineer with notary public.
- 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. 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.**
- 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.