



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

**BILL OF QUANTITIES**

IMPROVEMENT OF UNIVERSITY DATA CENTER			Bill of Quantities		
ABC: ₱ 1,273,952.63					
COLLEGE/UNIT/CAMPUS: MAIN CAMPUS					
Item No.	Description	Unit	Quantity	Unit Price (Pesos)	Amount (Pesos)
I	MISCELLANEOUS WORKS (Pesos _____ _____ and _____ centavos)				
II	ELECTRICAL WORKS (Pesos _____ _____ and _____ centavos)				
III.	MECHANICAL 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 UNIVERSITY DATA CENTER

##### GENERAL NOTES:

1. The project should be finished for 45 calendar days.
2. Actual site inspection is a must.
3. The area should be cleared before and after the construction works at least six meters away from the building line. Unusable used formworks and all other unwanted debris of construction works should be disposed properly.

#### B. Technical Description

##### I. Miscellaneous Works

1. Construction of generator housing (see plan).
2. See plans for sizes of bar and other details for the construction of generator housing.
3. This work also includes painting of two (2) coats of epoxy primer and two (2) coats of QDE.
4. Provide necessary tools and equipment.
5. All joint connections should be fully welded.
6. Use galvanized tubular as purlins 16, 2" x 2" @ 0.60 m. on center.
7. Provide 1 1/2" G.I. pipe S-40 with 1/4" x 1" for framing and gate.
8. Provide steel matting 5.0 mm. for walls.
9. Adopt gauge 26 (0.5 mm.) rib type pre-painted roof sheet.
10. All attachment for roofing sheet and ridge roll shall be 2 1/2" teckscrew for metal.
11. Provide water sealant for all attachment (water sealant should be provided for both inside and outside surface of teckscrew head).
12. Remove and replace the existing Main Distribution Panel (400AT).

##### II. Electrical Works

1. Supply and Installation of Feeder lines (from MDP to Data center).
  - a. 30 mm. sq. with 8.0 mm. sq. THHN on 2" RSC pipe.
2. Supply and Installation of Automatic Transfer Switch and Panel Board with Circuit  
**Note: Bolt-on type, Nema Standard should be used.**
  - a. 1 set of LLP, 4 Branches, 3P  
Main 400AT, 500 AF, 230V  
2-175AT, 1-125AT
  - b. 1 set of LLP, 14 Branches, 3P  
Main 125AT, 300 AF, 230V  
1-15AT, 1-20AT, 9-30AT, 1-40AT
  - c. 1 set of Main 125AT, 300 AF, 230V
  - d. 1 set of heavy duty Automatic Transfer Switch (125AT)
3. Supply and Installation of conductors and PVC conduit/junction box/utility box from main panel to convenience outlet/light outlet.
  - a. PVC conduit orange pipe.
  - b. Utility and junction boxes should be PVC and deep type.
4. Supply and Installation of electrical fixtures/switches/outlets and other electrical
  - a. Switches (Bticino, National or its equivalent)
  - b. Convenience outlets (Bticino, National or its equivalent)
5. Tap to the source is included.

##### III. Mechanical Works

1. Supply and installation of HEAVY DUTY GENERATOR SET.  
40kW/50kVA, 230V, Three Phase, 60Hz  
Silent Type Gen. Set, Diesel Fuel Engine
2. Tapping to the source is included.

#### C. See plans/consult the end-user and project inspector for details and extent of work.