



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

BILL OF QUANTITIES

IMPROVEMENT OF UNIVERSITY DATA CENTER – 2 nd POSTING					
ABC: ₱ 1,273,952.63				Bill of Quantities	
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)				
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 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).
13. Framing and posts of generator housing should be 1 1/2" GI pipe S-40. The gates are the front portion of the housing as shown in the front elevation. Provide heavy duty hinges 4" (3pcs/door) and fabricated safety hasp using 1/4" x 1" flat bar and solid 12mm. Ø bar.

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 1 set heavy duty Automatic Transfer Switch (ATS) 125AT
3. Supply and installation of panel boards with circuit breakers.
 - Remove and replace the existing MDP (see plan)
 - LP for computer data center, 14 branches (see plan)
 - Main 125AT, 300AF, 230V enclosed with box.

Note: Bolt-on type, Nema Standard should be used.
4. 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.
5. 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)
6. Supply and installation of all lighting and power conduits, conductors, switches, outlets, ACU outlets, PVC junction and utility boxes for connection to ATS and generator for continuity of power supply at all times.
7. Tap to the source, testing and commissioning are 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.