



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

BILL OF QUANTITIES

CONSTRUCTION OF GENERAL EDUCATION BUILDING PHASE 1			Bill of Quantities		
ABC: ₱ 14,995,247.08					
COLLEGE/UNIT/CAMPUS: MAIN CAMPUS					
Item No.	Description	Unit	Quantity	Unit Price (Pesos)	Amount (Pesos)
I	EARTHWORKS (Pesos _____ _____ and _____ centavos)				
II	CONCRETE WORKS (Pesos _____ _____ and _____ centavos)				
III	MASONRY WORKS (Pesos _____ _____ and _____ centavos)				
IV	TILE WORKS (Pesos _____ _____ and _____ centavos)				
V	CARPENTRY WORKS (Pesos _____ _____ and _____ centavos)				
VI	MISCELLANEOUS WORKS (Pesos _____ _____ and _____ centavos)				
VII	ELECTRICAL WORKS (Pesos _____ _____ and _____ centavos)				

VIII	PLUMBING 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. CONSTRUCTION OF GENERAL EDUCATION BUILDING PHASE 1

GENERAL NOTES:

1. The project should be finished in 210 calendar days.
2. Actual site inspection is a must.
3. **The works will be from FOUNDATION TO UPPER GROUND FLOOR LEVEL ONLY**

B. Technical Description

I. Earthworks

- A. Site Preparation/Temporary enclosure/ Mobilization/ Demobilization/ Office/ Bunkhouse/ Billboard/etc.
- B. Clearing, Excavation and Backfilling
 1. This work includes excavation for all columns/wall footings, tie beam and septic tank.
 2. The area should be cleared/cleaned before and after the construction work at least six meters away from the building line. Unusable used formworks, excessive soil fill and all other unwanted debris of construction works should be disposed properly.
- C. Demolition Works
 1. There is an existing structure for total demolition.
- D. Additional fill and soil poisoning
 1. Provide additional fill.
 2. The entire area for the proposed building should be treated with termite proofing.
 3. Gravel fill = 0.05m. fill.

II. Concrete Works

- A. Cast-in-place concrete
 1. Concrete works include footings, columns, stiffener columns, slabs, beams, stairs, lavatory counters, ledge/canopy and all other concrete components needed to complete the structure.
 - Provide lintel beams for the opening of doors and windows.
 2. Strength of concrete to be adopted shall be **3,500 psi**.
 3. Concrete works should be plain cement finished.
 4. Provide necessary tools and equipment needed for concrete works.
- B. Steel Reinforcement
 1. Use deformed bar grade 40.
 2. Provide one meter extension for all reinforcement of columns at upper ground level going to third floor.
 3. Provide necessary tools and equipment needed for steel works.
 4. See plan for details and extent of work.

III. Masonry Works

1. Installation of CHB reinforced with 10mmØ deformed bar spaced at 0.60m on center every three layers.
 - a. CHB 6" for the perimeter/exterior walls and septic tank.
 - b. CHB 4" for interior/partition walls.
2. Masonry works should be plastered plain cement.

IV. Tile Works

Supply and installation of the following:

1. Ceramic colored tiles (locally made) 16" x 16" for the whole lower ground floor area of the building. Tiles must be accented with dark colors. Use unglazed ceramic tile for hallway and ramp.
2. For comfort room:
 - a. 16" x 16" unglazed ceramic colored tiles for flooring.
 - b. 12" x 24" glazed tiles for the entire wall (from floor to ceiling)
 - c. 16" x 16" glazed ceramic colored tiles for lavatory counter
3. Use tile adhesive for tiling.
4. Consult the end user for color preference of tiles.

V. Carpentry Works

1. Provide necessary form lumber and scaffolding needed for the completion of the project.

VI. Miscellaneous Works

Supply and installation of the following:

1. Doors
 - 8.0 sets D-1 Pre-painted steel door with view window, complete with heavy duty accessories
 - 6.0 sets D-2 Pre-painted steel door, complete with heavy duty accessories
2. Windows
 - 8.0 sets W-1 Aluminum fixed window with ¼" thick clear glass on powder coated finish aluminum frame; complete with all accessories
 - 8.0 sets W-2 Aluminum sliding window with ¼" thick clear glass on powder coated finish aluminum frame; complete with all accessories
 - 8.0 sets W-3 Aluminum casement window with ¼" thick clear glass on powder coated finish aluminum frame; complete with all accessories
 - 2.0 sets W-4 Aluminum casement window with ¼" thick clear glass on powder coated finish aluminum frame; complete with all accessories
 - 2.0 sets W-5 Aluminum casement window with ¼" thick clear glass on powder coated finish aluminum frame; complete with all accessories
 - 4.0 sets of W-6 Aluminum awning window with ¼" thick clear glass on powder coated finish aluminum frame; complete with all accessories
3. Partitions
 - 4.0 sets Phenolic partition wall with door; complete with all accessories for comfort rooms

VII. Electrical Works

1. Supply and installation of feeder line and secondary post including all its accessories (Bolt-on type Nema Standard should be used)
 - Installation of panel board, ACP, LP and their circuit breakers
2. Supply and installation of wiring/ conductors and PVC conduit/ junction box/ utility box from main panel to convenience outlet/ lighting outlet/ ACU outlet
 - a. THWN stranded wire (Phelp dodge or approved equivalent)
 - b. PVC conduit orange pipe with sizes as indicated on the plan
 - c. Utility and junction boxes should be PVC and deep type.
3. Supply and installation of electrical fixtures/ switches/ outlets/ and other electrical devices:
 - a. Switches (Bticino, National or its equivalent)
 - b. Convenience and weather proof outlets (Bticino, National or its equivalent)
 - c. Outlets for ACU, Emergency light, exhaust fan (Bticino, National or its equivalent)
 - d. 2-18W (4") LED fluorescent lamp with diffuser (34 sets)
 - e. Pin light with 12W LED bulb (38 sets)
4. Construction of service entrance post.
5. Tap to the source.
6. Include testing and commissioning.
7. Consult inspectors and plan for details and extent of works.

VI. Plumbing Works

A. Water Supply Line

1. Adopt PPR pipes and fittings for water line (2", 1" and ½" Ø)
 - a. 2" PPR pipe from main line to building
 - b. Provide gate valve for every comfort room.
2. Tapping to source is included.
3. No pipe should be embedded without testing it to leak.

B. Sewer Line

1. Adopt PVC heavy duty orange pipes and fitting (Sanimold type with O-ring or its equivalent) for ventilation and the whole sewer line system including the septic vault fittings
 - Use 4" Ø for water closet and main line
 - Use 2" Ø for lavatory and ventilation
- Note: Maintain a 2% slope on all CR floorings towards the drain.**
2. Provide 4" PVC pipe for downspout.
 3. Provide two units septic tank pipes extending to the nearest disposal area.

- C. Fixtures (All fixtures must be TOTO/HCG/American STD or any approved equal with complete heavy duty fittings and accessories)

- a. Provide the following for the comfort rooms:
 - 1. BRASS floor drains (8 pcs)
 - 2. Colored tank type water closet, counter top type lavatory.
 - 3. American standard made faucets (plain bibb) for every cubicle.
- D. Septic tank
 - 1. Construction of new two units septic tank (See plan).
- C. 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.