



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

**BILL OF QUANTITIES**

COMPLETION OF HRM HOSTEL BUILDING AT CARMONA CAMPUS				Bill of Quantities	
ABC: ₱ 6,241,079.74					
COLLEGE/UNIT/CAMPUS: CARMONA CAMPUS					
Item No.	Description	Unit	Quantity	Unit Price (Pesos)	Amount (Pesos)
I	EARTHWORKS (Pesos _____ _____ and _____ centavos)				
II	CONCRETE, MASONRY & TILE WORKS (Pesos _____ _____ and _____ centavos)				
III	CARPENTRY WORKS (Pesos _____ _____ and _____ centavos)				
IV	MISCELLANEOUS WORKS (Pesos _____ _____ and _____ centavos)				
V	ELECTRICAL WORKS (Pesos _____ _____ and _____ centavos)				
VI	PLUMBING WORKS (Pesos _____ _____ and _____ centavos)				
VII	PAINTING 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. COMPLETION OF HRM HOSTEL BUILDING AT CARMONA CAMPUS**

##### **GENERAL NOTES:**

1. The project should be finished in 150 calendar days.
2. There is an existing structure. Actual site inspection is a must.

#### **B. Technical Description**

##### **I. Earthworks**

###### **A. Excavation/ backfilling/ clearing**

1. This work includes excavation for septic tank, storm drainage, and catch basin.
2. The area should be cleared before and after the construction works. Unusable used formworks and all other unwanted debris of construction works should be disposed properly.

###### **B. Additional fill and soil poisoning.**

1. Provide additional fill.
2. The area within the specified grid of the building should be treated with termite proofing.
3. Gravel fill: 0.05m thick

##### **II. Concrete, Masonry and Tile Works**

Concrete works include slab on fill at stage, all lavatory counters and all other components needed to complete the structure.

###### **A. Cast-in-place concrete**

1. Strength of concrete to be adopted shall be 3000 psi.
2. Concrete works should be plain cement finished.
3. Provide necessary tools and equipment needed for concrete works.

###### **B. Steel reinforcement**

1. Use deformed bar grade 33.
2. Provide necessary tools and equipment needed for steel works.
3. See plan for details and extent of work.

###### **C. CHB Laying**

1. Installation of CHB reinforced with 10mm Ø deformed bar spaced at 0.60m on center every three layers for concrete counter support.
2. Concrete and masonry works should be plastered plain cement.

###### **D. Tile Works**

Supply and installation of the following:

1. Ceramic colored tiles (locally made) 0.40m x 0.40m for the whole area of ground and second floor of the building. Tiles must be accented with dark colors. Use unglazed ceramic tiles for kitchen laboratory, laundry, entrance and exit lobby and ramp.
2. Use granite tiles with groove for the stairs.
3. For the comfort rooms:
  - a. Use unglazed granite colored tiles 24" x 24" for flooring.
  - b. Use decorative colored tiles 12" x 24" glazed tiles for the entire wall from floor to ceiling.
  - c. Use granite slab for the lavatory concrete counter including 0.60m of its wall.
4. Consult the end user for color preference of tiles.

##### **III. Carpentry Works**

1. Provide necessary form lumber and scaffolding needed for the completion of the project.
2. Provide ceiling works for the whole ground and second floor including all comfort rooms.
  - a. Use a cement board ¼" thick for the ceiling board.
  - b. Use metal furring as ceiling runner/ joist and hanger. Ceiling joist should be 0.40 on center.
  - c. Provide decorative wooden molding to all ceiling corners.
  - d. Use pre-painted spandrel 4" for the whole area of eaves with pre-painted end and center molding.
  - e. Provide ceiling ventilation for every 5 meters and all corners of the eaves.

##### **IV. Miscellaneous Works**

Supply and installation of the following:

- A. Doors
  - 1. 1.0 set of D-1 Aluminum frame door complete with all accessories with  $\frac{3}{8}$ " thick colored glass on colored powder coated finish
  - 2. 1.0 set of D-2 Aluminum frame door complete with all accessories with  $\frac{3}{8}$ " thick colored glass on colored powder coated finish
  - 3. 4.0 sets of D-3 Flush door with  $\frac{1}{4}$ " thick clear glass view, complete with all accessories on 2"x5" KD door jamb
  - 4. 11.0 sets of D-4 Flush door complete with all accessories on 2"x5" KD door jamb
  - 5. 4.0 sets of D-6 (0.60m x 1.40m) Aluminum frame door complete with all accessories and aluminum cladding
  - 6. 9.0 sets of D-7 Aluminum frame door complete with all accessories and with decorative glass window
- B. Windows
  - 1. 18.0 sets of W-1 Aluminum sliding window complete with all accessories;  $\frac{1}{4}$ " thick colored glass on powder coated colored framing fixed header, on 2"x4" colored aluminum jamb
  - 2. 4.0 sets of W-2 Aluminum sliding window complete with all accessories;  $\frac{1}{4}$ " thick colored glass on powder coated colored framing fixed header, on 2"x4" colored aluminum jamb
  - 3. 1.0 set of W-3 Aluminum fixed window complete with all accessories;  $\frac{1}{4}$ " thick colored glass on powder coated colored framing fixed header, on 2"x4" colored aluminum jamb
  - 4. 4.0 sets of W-4 Aluminum sliding window complete with all accessories;  $\frac{1}{4}$ " thick colored glass on powder coated colored framing fixed header, on 2"x4" colored aluminum jamb
  - 5. 2.0 sets of W-5 Aluminum awning window complete with all accessories;  $\frac{1}{4}$ " thick colored glass on powder coated colored framing fixed header, on 2"x4" colored aluminum jamb
- C. Stainless sheet for Working Tables
  - 1. Provide ga. 16 stainless sheet for all working tables including 0.60m of its wall.
- D. Stainless Railings (for stairs, ramp and grab rail for PWD CR)
  - 1. Provide 1.5mm thick stainless tubing for railings. Use 2" and 1" tubing.
- E. Fire Escape Ladder
  - 1. Provide  $\frac{1}{4}$ " x 2" stainless flat bar with 1" stainless tubing.
- F. Waterproofing
  - 1. Provide three (3) coats of waterproofing for the whole gutter, roof deck area and all comfort rooms.

## V. Electrical Works

- 1. Installation of feeder line and secondary post including all its accessories.
  - a. Installation of MDP, ACP, LP and all other panel boards on the plan and their circuit breakers. Bolt on Nema Standard should be used. Tap to the source including testing. (see plans)
- 2. Installation of wiring/ conductors and PVC conduits/ junction box/ utility box/ from main/ sub-main panel boards to convenience outlet/ light outlet/ ACU outlet (see plans for details).
  - a. Use THHN stranded wire. Phelps dodge or approved equal should be used.
  - b. PVC conduit orange pipe with sizes as indicated on the plan.
  - c. Utility and junction boxes should be PVC and deep type.
- 3. Installation of electrical fixtures/ switches/ outlets/ and other electrical devices. Use Bticino, National, or its approved equal)
  - a. Switches
  - b. Two gang convenience outlets (with ground)
  - c. 2-18W LED fluorescent lamp with diffuser (35 sets)
  - d. 1-18W LED fluorescent lamp with diffuser (9 sets)
  - e. Pinlight with 9W LED bulb (62 sets)
  - f. Spotlight 20W LED (2 sets)
  - g. Wall lamp with 7W LED bulb (8 sets)
- 4. Consult plan for details and extent of works.

5. Construction of service entrance is included.
6. Tap to the source, testing and commissioning are included.

## **VI. Plumbing Works**

### **A. Water Supply Line**

1. Adopt PPR pipes and fittings for water lines.
  - a. 1" and 2" Ø for water line/
  - b. Provide a gate valve for every comfort room.
2. tapping to the source is included.
3. No pipe should be embedded without testing it to leak.

### **B. Sewer Line and Down Spout**

1. Adopt PVD heavy duty orange pipes and fittings for ventilation, downspout, and the whole sewer line system including the septic tank fittings.
  - a. Use 4" Ø for the main line, water closet, and downspout.
  - b. Use 2" Ø for lavatory and ventilation.
  - c. Provide brass roof drain.
2. Supply and installation of RCP for storm drainage (see plan).
3. Provide one (1) unit septic tank (see plan).
4. Provide a catch basin with concrete reinforced pipes.

### **C. Fixtures (All fixtures must be HCG, American Std. Toto or approved equal)**

Provide the following for the comfort room and kitchen:

1. 1 set of bath tub
2. 13 sets of water closet
3. 5 sets of under the counter lavatory
4. 9 sets of wall hung lavatory with soap and tissue holder.
5. 9 sets of shower heads and valves.
6. 1 set of urinal
7. 9 sets of stainless sink (deep type)
8. 20 pcs of faucet (US std.)
9. 26 pcs 4" brass floor drain
10. 20 pcs dome type brass roof drain strainer

## **VII. Painting Works (Note: Color of paint will depend upon the preference of the end-user. Paints and its accessories should be Boysen or approved equal)**

The whole building should be painted both exterior and interior including doors.

### **A. Wood**

1. Apply one coat of flat wall enamel white. Allow to dry overnight.
2. Repair minor surface imperfections with glazing putty. Let dry then sand.
3. Apply at least two coats of Quick Dry Enamel in the desired color. Allow an overnight inter coating interval.

### **B. Metal**

1. Apply epoxy primer by brush or spray. Allow to dry for 24 hours. Apply suitable putty on imperfections.
2. Apply at least two coats of Quick Dry Enamel in the desired color.

### **C. Concrete**

1. Treat the surface with concrete neutralizer. Mix one part with 16 parts water by volume.
2. Apply a skim coat as primer. Repair minor surface imperfections with a suitable putty. Let dry then sand.
3. Apply at least two coats of colored dirt resistant factory mixed semi gloss latex paint.

- 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.