



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

**BILL OF QUANTITIES**

<b>CONSTRUCTION OF RETAINING WALL AND SHOWER ROOM                  AT SALUYSOY RESORT                  ABC: ₱1,599,624.84                  COLLEGE/UNIT/CAMPUS: MAIN CAMPUS</b>					
<b>Bill of Quantities</b>					
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	CARPENTRY WORKS (Pesos _____ _____ and _____ centavos)				
V	MISCELLANEOUS WORKS (Pesos _____ _____ and _____ centavos)				
VI	RAFTER AND ROOFING WORKS (Pesos _____ _____ and _____ centavos)				
VII	PLUMBING WORKS (Pesos _____ _____ and _____ centavos)				

VIII	ELECTRICAL WORKS (Pesos _____ _____ and _____ centavos)				
IX	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. CONSTRUCTION OF RETAINING WALL AND SHOWER ROOM AT SALUYSOY RESORT**

##### GENERAL NOTES:

1. The project should be finished for 60 calendar days.
2. Site inspection is a must to verify its existing condition.
3. Provide the following:
  - Billboard
  - Bankhouse with office
  - Temporary comfort rooms
  - Site temporary enclosure may be blue sack or any suitable materials that may enclose the workplace.
4. The area should be cleared/cleaned before and after the construction work at least ten meters away from the building line. Unusable used formworks, excessive soil fill, and all other unwanted debris of construction works should be disposed properly.

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

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

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

1. Excavation for column/ wall footing, open canal and sewer lines.

##### **II. Concrete Works**

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

1. This work includes concrete works within the specified grid such as column/ wall footings, column, slab beams, retaining wall, stairs, roof beams and other concrete components needed to complete the structure.
2. Strength of concrete to be adopted shall be 3500 psi at 28 days.
3. Concrete work should be plastered plain cement.
4. Provide necessary tools and equipment needed for concrete works.

###### B. Steel Reinforcement

1. Use deformed bar grade 40. See plan for sizes of bars needed.

##### **III. Masonry Works**

1. All concrete and masonry works should be plastered plain cement.
2. Pebbles #5 (white) for the whole floor area and stairs.
3. Construction of open canal with grating is included. (20 meters)

##### **IV. Carpentry Works**

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

##### **V. Miscellaneous Works**

1. Supply and installation of all doors needed to complete the project (see plan).
  - 2 sets of pre-painted steel door complete with all accessories including door lock with indicator
  - 6 sets of stainless door with 1" x 1" stainless tubular framing and gauge #18 stainless sheet; complete with all accessories including door lock and stainless hinges
2. Supply and installation of windows needed to complete the project (see plan).
  - 2 sets of aluminum awning window complete with all accessories with ¼" thick clear glass on colored powder coated finish with aluminum framing
  - 2 sets of jalousie window complete with all accessories with ¼" thick clear glass on colored powder coated finish aluminum framing
3. Stainless railing/grills for terrace and stairs
  - Provide 1.5mm thick stainless tubing for railings. Use 2" and 1" tubing.
4. Steel grating for open canal
  - Provide ¼" x 1 ½" angle bar with 16mm Ø RSB

##### **VI. Rafter and Roofing Works**

###### A. Trusses

1. See plan for sizes of bars and other details for the installation of steel rafter.
2. This work also includes painting of two (2) coats of epoxy primer.
3. Provide necessary tools and equipment.
4. Use CEE purlins ga. 16, 2" x 6" at 0.60m on center.
5. Use CEE purlins 2" x 6" and 2"x 4" fascia board.

###### B. Roofing

1. Adopt gauge 26 (0.5mm) rib type pre-painted roof sheet.

2. Adopt gauge 26 (0.5mm) pre-fabricated and pre-painted fascia cover and flushing.
3. Use old roofing sheet for the two roofing eaves.
4. All attachment for roofing sheet and ridge roll shall be 2 ½" teck screw for metal.
5. Provide water sealant for all attachment. Water sealant should be provided for both inside and outside surface of teck screw head.

#### VII. Plumbing Works

1. Adopt PPR pipes and fittings for water line.
2. Tapping to source is included.
3. Provide one unit stop valve.
4. Adopt PVC heavy duty orange pipes and fittings (Sanimold type with O-ring or its equivalent) for sewer line system
  - Use 3" Ø for all floor drains
5. Supply and installation of the following:
  - a. Provide brass floor drain (8 pcs)
  - b. Heavy duty shower and valve (6 sets)
  - c. Provide heavy duty faucet for every cubicle.

#### VIII. Electrical Works

- A. Supply and installation of the following:
  1. Conductors and PVC conduits/ junction box/ utility box from main panel to sub panels/ outlets.
    - Use PVC conduit orange pipe
    - Utility and junction boxes should be PVC and deep type
    - THWN stranded wires with sizes indicated on the plan (Use phelp dodge or its approved equal).
  2. Electrical fixtures/ switches/ outlets and other electrical devices
    - Switches and outlets (Bticino, National or approved equal)
    - 7 sets of LED bulb 9W
    - 2 sets of waterproof outlets
  3. Testing and commissioning of electrical system

#### IX. Painting Works (Painting of the whole new structure)

##### A. Wood

1. Apply one coat of flatwall enamel white. Allow to dry overnight.
2. Repair minor surface imperfection with glazing putty. Let dry for 3-4 hours then sand.
3. Apply two coats of semi-gloss enamel in the desired color. Allow an overnight inter coating interval.

##### B. Metal

1. Apply zinc chromate primer by brush or spray. Allow to dry for 24 hours. Apply suitable putty on imperfections. Sand to a smooth finish.
2. Apply 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. Repair minor surface imperfections with a suitable putty. Let dry, then sand. Spot coat with top coat color.
3. Apply two coats of colored elastomeric paint or factory mixed dirt resistant semi-gloss latex. Apply with brush or roller.

**Note: Color of paint will depend upon the preference of the end-user. Paints and its accessories to be used shall be Boysen brand or approved equal.**

- 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. 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. **Note: In the event that discrepancies on plans and scope of work occur, generally, the scope of work prevails.**
- E. 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.