



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

## BILL OF QUANTITIES

COMPLETION OF BAHAY ALUMNI ABC: ₱ 7,593,737.17 COLLEGE/UNIT/CAMPUS: MAIN CAMPUS			Bill of Quantities		
Item No.	Description	Unit	Quantity	Unit Price (Pesos)	Amount (Pesos)
I	MOBILIZATION/DEMOBILIZATION (Pesos _____ _____ and _____ centavos)				
II	EARTHWORKS (Pesos _____ _____ and _____ centavos)				
III.	CONCRETE WORKS (Pesos _____ _____ and _____ centavos)				
IV.	MASONRY WORKS (Pesos _____ _____ and _____ centavos)				
V.	MISCELLANEOUS WORKS (Pesos _____ _____ and _____ centavos)				
VI.	TRUSSES AND ROOFING WORKS (Pesos _____ _____ and _____ centavos)				
VII.	CEILING INSTALLATION (Pesos _____ _____ and _____ centavos)				
VIII.	TILE INSTALLATION (Pesos _____ _____ _____)				

	and _____ centavos)				
IX.	PAINTING WORKS (Pesos _____ _____ _____ and _____ centavos)				
X.	ELECTRICAL WORKS (Pesos _____ _____ _____ and _____ centavos)				
XI.	PLUMBING WORKS (Pesos _____ _____ _____ and _____ centavos)				
XII.	FORMWORKS (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 BAHAY ALUMNI**

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

1. The project should be finished for 180 calendar days.
2. Actual site inspection is a must. There is an existing structure.

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

##### **I. Mobilization and Demobilization**

- a. The scope involves mobilization and demobilization of equipment/manpower upon the start and completion of the project.
- b. Included in the scope is clearing the site before and after the construction. All unuseable formworks, excessive soil fill and all other unwanted debris in the site should be disposed properly.
- c. Securing the site by putting temporary enclosure to ensure the safety of the workers and other personnel
- d. Installation of signage (billboard) for project information

##### **II. Earthworks**

###### **A. Excavation**

1. Total volume of excavation = 91.91 cu.m.
2. The excavation includes the following:
  - wall footing
  - foundation for stiffener, remaining columns and stair foundation
  - preparation of soil for slab on fill
  - septic tank and catch basin
  - sewer pipe / water supply line and electricals ( see plan or ask engineer for details)

###### **B. Gravel fill**

1. This scope involves hauling, spreading, leveling and compacting of 0.05 m. thick gravel fill on prepared earth soil compacted bedding
2. Provide 0.05 m. gravel fill on slab on fill, catch basin and septic tank
3. See plans for details

###### **C. Additional fill & soil poisoning**

1. The area should be treated with termite proofing.
2. The area of soil to be treated = 306 sq.m.

##### **III. Concrete Works**

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

1. Concrete works include columns, footings, stiffener columns, slab, beams, stairs, roof , gutter, lavatory counters, ledge/canopy and all other concrete components needed to complete the structure.
  - Provide lintel beams for the opening of windows and doors. Use 0.15m x 0.20 m reinforced with 10 mm bars.
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 necessary tools and equipment needed for steel works.

##### **IV. Masonry Works**

###### **A. CHB laying**

1. Installation of CHB reinforced with 10 mm 0 deformed bar spaced at 0.60 m. on center every three layers.
  - CHB 4" for partition walls.
2. Masonry works should be plastered plain cement.

## **V. Miscellaneous Works**

A. The works include installation of the following doors:

1. Door 1 - 2 sets (See plan for details)
2. Door 2 - 1 set (See plan for details)
3. Door 3 - 2 sets (See plan for details)
4. Door 4 - 1 set (See plan for details)
5. Door 5 - 10 sets (See plan for details)
6. Door 6 - 3 sets (See plan for details)
7. Door 7 - 2 sets (See plan for details)
8. Door 8 - 8 sets (See plan for details)
9. Door 9 - 1 Lot (See plan for details)

B. The works also include the installation of the following windows:

1. Window 1 - 2 sets (See plan for details)
2. Window 2 - 5 sets (See plan for details)
3. Window 3 - 2 sets (See plan for details)
4. Window 4 - 2 sets (See plan for details)
5. Window 5 - 5 sets (See plan for details)
6. Window 6 - 1 set (See plan for details)
7. Window 7 - 3 sets (See plan for details)
8. Window 8 - 10 sets (See plan for details)
9. Window 9 - 4 sets (See plan for details)
10. Window 10 - 1 set (See plan for details)
11. Window 11 - 1 set (See plan for details)
12. Window 12 - 2 sets (See plan for details)

C. Also included are installation of stair railing for both stairs (adopt the design of Admin Bldg's stair railings)

D. See plan for details

## **VI. Steel Trusses and Roofing**

A. Trusses:

1. See plans for sizes of bar and other details for the installation of steel trusses.
2. This work also includes painting of two (2) coats of epoxy primer.
3. Provide necessary tools and equipment.
4. All joint connections should be fully welded.
5. Use indicated sizes of steel bars/sheet for trusses, gusset plates, cross bracing, sag rod, purlins and base plate
6. See plan for details

B. Roofing:

1. Adopt gauge 26 (0.5 mm.) rib type pre-painted roof sheet.
2. Adopt gauge 26 x 18 (0.5 mm.) pre-fabricated and pre-painted ridge roll.
3. All attachment for roofing sheet and ridge roll shall be 2 1/2" teckscrew for metal.
4. Provide water sealant for all attachment (water sealant should be provided for both inside and outside surface of teckscrew head).

## **VII. Ceiling Works**

Provide ceiling works for ground and second floor including eaves

1. Use 1/4" x 4" x 8" marine plywood for ground and second floor ceiling
2. Use metal furring as ceiling runner and ceiling joist at 0.40 m. on center both ways.
3. Provide decorative wooden molding to all ceiling perimeter and corners.
4. Provide 3/16" x 1" flat bar coated with primer and paint for ceiling hanger every 1.20 m. both ways.
5. Use pre-painted spandrel 4" for the whole area of eaves.
6. Provide ceiling ventilation for every 3 meters and all corners of the eaves.

## **VIII. Tiles Installation**

A. Supply and installation of the following:

1. Granite colored tiles (locally-made) 0.60 m. x 0.60 m. for the whole area of ground and second floors of the building. Tiles must be accented with dark colors.

2. Granite colored tiles (locally-made) 0.30 m. x 0.60 m. for all toilets of the building
  - Unglazed granite tiles for flooring
  - Glazed granite tiles for walls
3. Granite tiles with groove for the stairs.
4. Consult the end user for color preference of tiles.

**IX. Painting Works (PAINTING OF THE WHOLE BUILDING)**

**A. Wood/Steel**

1. Apply flat wall enamel by brush or spray. Allow to dry for 24 hours. Apply suitable putty on imperfections, then, sand.
2. Apply at least two coats of Quick Dry Enamel in the desired color.

**B. Concrete**

1. Treat the surface with concrete neutralizer. Mix one part with 16 parts water by volume.
2. Apply Latex flat as primer. Repair minor surface imperfections with a suitable putty. Let dry, then sand.
3. Apply at least two coats of colored dirt resisting semi gloss latex paint ( factory mixed).  
**Note:** Color of paint will depend upon the preference of the end-user. Paints and its accessories should be BOYSEN or approved equal.

**X. Electrical Works**

1. Supply and Installation of panel board and circuit breakers. **Note:** Bolt-on type, Nema Standard should be used.
2. 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.
3. Supply and Installation of electrical fixtures/switches/outlets and other electrical devices.
  - a) Switches (Bticino, National or its equivalent)
  - b) Convenience outlets (Bticino, National or its equivalent)
  - c) 2-T8 LED Fluorescent Lamp with diffuser ( 32 sets)
  - d) 1-T8 LED fluorescent lamp with diffuser (63 sets)
  - e) LED Pin Light 10 watt with case (30 sets)
  - f) Emergency Light (26 sets)
  - g) Auxiliary Fan (11 sets)
4. Provide and install 25 kva generator set 3 phase, 230 volts
5. Construction of service entrance post
6. Consult plan for details and extent of works.
7. Tap to the source.

**XI. Plumbing Works**

**A. Water Supply Line**

1. Adopt PPR pipes and fittings for water line.
2. Tapping to the 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 fittings (Sanimold type with O-ring or its equivalent) for ventilation, downspout and the whole sewer line system including septic vault fittings.
  - a) Use 4" Ø for drainage and down spout.
  - b) Use 2" Ø and 3" Ø for lavatory.
2. Provide one unit septic tank.
3. Provide catch basin with reinforced concrete pipes (See details).

**C. Fixture**

Supply and Installation of the following:

1. Lavatory Sets with Heavy Duty Faucet & accessories (15 sets)

2. Urinals Set with control valve and accessories (3 sets)
3. Water Closet with complete accessories Including bidet (17 sets)
4. Heavy Duty Faucet (13 sets)
5. Floor Drain (12 sets)

**XII. Formworks**

1. Provide necessary formwork and scaffolding for the completion of the project.
- C.** See plans/consult the end-user and project inspector for details and extent of work. The silence of specification, 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.