



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

ADMN-QF-09

## BILL OF QUANTITIES

REPAIR AND IMPROVEMENT OF COLLEGE OF ARTS AND SCIENCES BUILDING					
ABC: ₱ 4,500,000.00					
Bill of Quantities					
COLLEGE/UNIT/CAMPUS: CAS					
Item No.	Description	Unit	Quantity	Unit Price (Pesos)	Amount (Pesos)
I	PRELIMINARY WORKS AND EARTHWORKS (Pesos _____ _____ and _____ centavos)				
II	MASONRY/TILE WORKS (Pesos _____ _____ and _____ centavos)				
III	CARPENTRY WORKS (Pesos _____ _____ and _____ centavos)				
IV	MISCELLANEOUS WORKS (Pesos _____ _____ and _____ centavos)				
V	PLUMBING WORKS (Pesos _____ _____ and _____ centavos)				
VI	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: \_\_\_\_\_  
 \_\_\_\_\_  
 (Signature over Printed Name)  
 Position: \_\_\_\_\_  
 Construction Company/Contractor: \_\_\_\_\_

## **CAVITE STATE UNIVERSITY**

### **SCOPE OF WORK:**

#### **A. REPAIR AND IMPROVEMENT OF COLLEGE OF ARTS AND SCIENCES BUILDING**

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

1. The project should be finished in 120 calendar days.
2. Actual site inspection is a must. Verify the actual condition of the site, since there is an existing structure.

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

##### **I. Preliminary Works and Earthworks**

###### **A. Mobilization / Demobilization**

Provide the following:

1. Billboard with project information
2. Bunkhouse with temporary office
3. Temporary comfort rooms
4. Site temporary enclosure may be blue sack or any suitable materials that may enclose the workplace.
5. It includes cleaning up of site, clearing, hauling and disposal of waste and construction debris before and after the construction work at least six meters away from the building line. Notify the end-user regarding the properties that need to be hauled away from the site prior to construction. All waste materials shall be disposed of by the contractor at his expense.
6. Restoration of any damages shall also be done before exiting the area.

###### **B. Dismantling Works**

1. This work includes dismantling of all existing tiles, fixtures and ceiling at all comfort rooms and all doors and other windows. Dismantled items should be inspected first before disposal. All unwanted debris of construction works should be disposed of properly.

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

###### **A. Masonry Works**

1. Provide retouching works on walls by plastering of affected areas by the improvement works.
2. Masonry works should be plastered plain cement.

###### **B. Tile Works**

Supply and installation of the following:

1. Ceramic colored tiles 12" x 24" for walls and 16" x 16" for floors of comfort rooms. Tiles must be installed for the entire floors and walls. Accent using decorative tiles shall be provided.
2. Tiles must be installed by using tile adhesive and finished with appropriate tile grout.
3. Use granite slab for all counters.
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 all comfort rooms and three storage rooms (elevator shaft).
  - a. Use cement board 1/4" thick for the ceiling board.
  - b. Use metal furring as ceiling joist/runner.
  - c. Provide decorative wooden molding to all ceiling corners.

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

###### **A. Supply and installation of the following:**

1. Doors
  - a. 4 sets of Powder coated aluminum swing type door with two panel 1/4" thick glass panel on powder coated standard aluminum door jamb with complete accessories with fixed glass window and fixed transom.
  - b. 6 sets of Pre-painted steel flush doors, complete with all accessories.
  - c. 45 sets of Pre-painted steel flush door with 1/4" thick clear glass view window complete with all accessories.
  - d. 18 sets of Phenolic door panel, complete with hinges, barrel bolt and all other accessories
2. Windows (Hallway @ 2nd & third floor)
  - a. 4 sets of Aluminum casement window (1.20 m. x 1.30 m.) with 1/4" thk. colored

- glass on colored powder coated aluminum framing.
  - 3. Glass board
    - a. 17 sets of Magnetic glass board (see existing).
  - 4. Stair nosing
    - a. 64 pcs of rubber stair nosing (400 mm)
- B. Replacement of door lock and all accessories of four units glass door at ground floor.
- C. Repair of existing steel casement window at west side (ground floor).
- D. Conversion of elevator shaft into three storage rooms.
  - a. Provide 2" x 4" & 2" x 3" tubular (2.0) with 18mm. thick polypropylene plastic board flooring.
  - b. All joint connections should be fully welded.
  - c. Apply two coats of epoxy primer and two coats of quick dry enamel paint.
  - d. Plastering and painting of existing walls is included.
  - e. Supply and installation of electrical lighting
    - i. 3 (9W) LED bulb with switch.
  - f. Supply and installation of 3 sets of powder coated aluminum swing type door with 1/4" thick colored glass panel on powder coated standard aluminum door jamb with complete accessories.

## V. Plumbing Works

- A. Water Supply Line
  - 1. This includes removal and replacement of all water supply line
  - 2. Adopt PPR pipes and fittings for water lines.
    - a. 1" and 1/2" Ø for water line.
    - b. Provide gate valve for every comfort room.
  - 3. Tapping to the source is included.
  - 4. No pipe should be embedded without testing it to leak.
- B. Sewer Line
  - 1. Adopt PVC heavy duty orange pipes and fittings.
  - 2. Declogging of existing sewer lines is included.
- C. Fixtures
  - 1. Provide the following for the comfort rooms:
    - a. Brass floor drain
    - b. Colored tank type water closet (18 sets)
    - c. Colored under the counter lavatory (12 sets)
    - d. Colored urinal (9 sets)

Note: All fixtures must be HCG, American Std, Toto or approved equivalent

  - e. Heavy duty hand held spray set for every cubicle and heavy duty faucet for lavatory.

## VI. Painting Works

- 1. This work includes repainting of the hallway ceiling and stairway from Ground to Third Floor.
  - 2. Application of paint to the area affected by the repair and improvement and all ceiling at comfort rooms.
  - 3. Treat the surface with concrete neutralizer. Mix one part with 16 parts water by volume.
  - 4. Apply Latex flat as primer. Repair minor surface imperfections with a suitable putty. Let dry, then sand.
  - 5. Apply at least two coats of colored dirt resistant semi gloss latex paint ( factory mixed)
- 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.
- E. The plans, detailed drawings and these specifications shall be considered as complementing each other, so that what is mentioned or shown in one, although not mentioned or shown in the other, shall be considered as appearing on both. **In case of conflict between the two,**

**generally, the scope of work prevails.**

- F.** Resident site engineer is a must for the projects to be undertaken by the contractor of the university. In cases where there are electrical works, it is required that an electrical engineer or a master electrician be a part of the contractor's team to supervise all electrical works. Likewise, master plumbers must supervise plumbing works. It can be considered when only one person is the master plumber and master electrician at the same time as long as his major duty is supervision of both fields. Safety engineer is a must as per DOLE requirement. **Note: All key personnel should be included in the list of personnel for submission.**
- G.** In cases of participation in two or more projects, the set of workers and foreman shall be different per project, however, the set of engineers and equipment may be reused.
- H.** Construction safety and health program as well as construction schedule (PERT/CPM/S-Curve) shall be provided by the winning bidder.
- I.** All public utilities used by the winning contractor in the construction of the project, such as electricity, water, telephone, etc., shall be for the sole account of the contractor.
- J.** 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.