



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

BILL OF QUANTITIES

REPAIR AND IMPROVEMENT OF FOUR-STOREY CLASSROOM AT SILANG CAMPUS ABC: ₱ 4,427,416.93 COLLEGE/UNIT/CAMPUS: CvSU SILANG CAMPUS					
Item No.	Description	Unit	Quantity	Unit Price (Pesos)	Amount (Pesos)
I	EARTHWORKS (Pesos _____ _____ and _____ centavos)				
II	CONCRETE AND MASONRY WORKS (Pesos _____ _____ and _____ centavos)				
III	CARPENTRY WORKS (Pesos _____ _____ and _____ centavos)				
IV.	ROOFING WORKS (Pesos _____ _____ and _____ centavos)				
V.	MISCELLANEOUS WORKS (Pesos _____ _____ and _____ centavos)				
VI.	ELECTRICAL WORKS (Pesos _____ _____ and _____ centavos)				
VII.	PAINTING 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. REPAIR AND IMPROVEMENT OF FOUR-STOREY CLASSROOM AT SILANG CAMPUS

GENERAL NOTES:

1. The project should be finished in 120 calendar days.
2. Actual site inspection is a must.
3. 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. Mobilization/Demobilization

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.

B. Dismantling and Chipping Works

1. This work includes removing all C-purlins at grid 2 to 4 & J to K.
2. Chipping of slab and beams to plant stiffener columns and roof beams.

II. Concrete and Masonry Works

A. Cast-in-place concrete

1. Concrete works include stiffener columns and beams.
2. Strength of concrete to be adopted shall be 3,500 psi
3. Concrete works should be plain cement finished.

B. Steel reinforcement

1. Use deformed bar grade 40.
2. Provide necessary tools and equipment needed for steel works.
3. See plan for details and extent of work.

C. Masonry Works

1. Provide CHB 4" for interior/partition walls.
2. Masonry works should be plastered plain cement .

III. Carpentry Works

1. Provide necessary form lumber and scaffolding needed for the completion of the project.
2. Provide ceiling works for the whole area of roof deck.
 - a. Use cement board for all comfort rooms.
 - b. Use light steel frame for all ceiling runner and ceiling joist at 0.40 m. on center both ways.
 - c. Provide decorative wooden molding to all ceiling perimeter and corners.
 - d. Provide rod suspension hanger for every 1.20 m. both ways.
3. Provide ceiling works for the whole eaves.
 - a. Use pre-painted spandrel 4" for the whole area of eaves.
 - b. Provide pre-painted spandrel with hole as ceiling ventilation for every 1 meter and all corners of the eaves.

IV. Roofing Works

Supply and installation of the following:

A. Purlins:

- a. Use 2" x 4" (1.8) @ 0.60 m. on center for purlins @ grid 2 to 4/J to K.
- b. This work also includes painting of two (2) coats of epoxy primer and two (2) coats of QDE paint.
- c. Provide necessary tools and equipment.
- d. All joint connections should be fully welded.

B. Roofing:

- a. Adopt gauge 26 (0.5 mm.) pre-painted curved type sheet. (see existing)
- b. Remove and replace all stainless gutters, adopt gauge 26 (0.5 mm) stainless gutter. (see existing)
- c. Adopt gauge 26 (0.5 mm.) prefabricated and pre-painted flushing. (see existing)
- d. All attachment for roofing sheet and ridge roll shall be 4" teck screw for metal.
- e. Provide water sealant for all attachment (water sealant should be provided for both inside and outside surface of teck screw head).
- f. This work also includes painting of two (2) coats of roof paint for the whole area of roofing.

V. Miscellaneous Works

Supply and installation of the following:

- A. Doors
 - a. 8 sets D-1 Pre painted Steel door, complete with heavy duty accessories.
 - b. 9 sets D-2 Pre painted Steel door with view window, complete with heavy duty accessories.
 - c. 3 sets D-3 Flush door, complete with heavy duty accessories with painted finish.
- B. Windows
 - a. 25 sets W-1 Aluminum casement window; complete with heavy duty accessories; 1/4" thick clear glass on 3/16" thick framing and jalousie window above.
 - b. 4 sets W-2 Aluminum casement window; complete with heavy duty accessories; 1/4" thick clear glass on 3/16" thick framing and jalousie window above.
- C. PVC Accordion Partition Wall with heavy duty rod suspension hanger.
 - a. 8 sets Heavy duty PVC Accordion Partition Wall.
- D. 4. Repair/reinstallation of downspout.

VI. Electrical Works

- A. Supply and Installation of panel board and circuit breakers. See schedule of loads and electrical plans for details and specifications.
Note: Bolt-on type, Nema Standard should be used.
- B. 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 and RSC/IMC metal conduit.
 - b. Utility and junction boxes should be PVC and deep type.
 - c. THHN and THW copper stranded wire, Phelps Dodge or approved equal.
-Refer to the Schedule of loads for size and color coding of conductor wires.
-THW type of conductor wires for outdoor installation.
- C. 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. 2-18W LED fluorescent lamp w/ diffuser (36 sets)
 - d. 1-18W LED fluorescent lamp w/ diffuser (14 sets)
 - e. 9W LED Pin light (11 sets).
 - f. Heavy duty twinhead emergency light (5 sets)
 - g. 16" Orbit fan, ceiling mounted (18 units)
- D. Tap to the existing source (see E2 to E4 for reference).

VII. Painting Works

- A. This includes painting of the whole structure both exterior and interior and the whole roofing.
- B. Wood
 - a. Apply two coats of polyurethane varnish sealer. Allow to dry overnight.
 - b. Repair minor surface imperfections with glazing putty.
 - c. Apply at least two coats of polyurethane varnish topcoat. Allow an overnight interval.
- C. Metal
 - a. Apply epoxy primer by brush or spray. Allow to dry for 24 hours. Apply a suitable putty on imperfections. Sand to smooth finish.
 - b. Apply two coats of Quick Dry Enamel in the desired color.
- D. Concrete
 - a. Treat the surface with concrete neutralizer. Mix one part with 16 parts water by volume.
 - b. Repair minor surface imperfections with a suitable putty. Let dry, then sand. Spot coat with top coat color.
 - c. 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 Boyesen 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. 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.

- F.** 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.
- G.** Construction safety and health program as well as construction schedule (PERT/CPM/S-Curve) shall be provided by the winning bidder.
- H.** 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.