



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

BILL OF QUANTITIES

PROJECT: REPAIR AND IMPROVEMENT OF ONE DUPLEX UNIT AT FACULTY VILLAGE					
ABC: ₱ 1,309,858.52					
COLLEGE/UNIT/CAMPUS: FACULTY VILLAGE					
Item No.	Description	Unit	Quantity	Unit Price (Pesos)	Amount (Pesos)
I	SITE CLEARING AND MOBILIZATION (Pesos _____ _____ and _____ centavos)				
II	CARPENTRY WORKS (Pesos _____ _____ and _____ centavos)				
III	ELECTRICAL WORKS (Pesos _____ _____ and _____ centavos)				
IV	STEEL TRUSSES AND ROOFING WORKS (Pesos _____ _____ and _____ centavos)				
V	PAINTING AND MISCELLANEOUS WORKS (Pesos _____ _____ and _____ centavos)				
GRAND TOTAL					_____
Write grand total in words					_____ _____ _____

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 ONE DUPLEX UNIT AT FACULTY VILLAGE

GENERAL NOTES:

1. The project should be finished in 75 calendar days.
2. Site inspection is a must. Verify actual site condition.
3. This set of specifications shall govern the methods of construction and the kinds of materials to be used for the proposed project shown in the plans and detailed drawings.
4. All parts of the construction shall be finished with first class workmanship, to the fullest talent and meaning of the plans and these specifications, and to the entire satisfaction of the project inspector and the end-user.

B. Technical Description

I. Site Clearing and Mobilization

A. Mobilization/Demobilization

Provide the following:

1. Billboard with project information
2. Bunkhouse with office
3. Temporary comfort rooms
4. Site temporary enclosure may be blue sack or any suitable materials that may enclose the workplace.
5. Demobilization includes cleaning up of site, clearing, hauling and disposal of waste and construction debris.

B. Dismantling works

1. This work includes dismantling of all ceiling boards, joists, electrical wires and lighting fixtures except at the extensions and garages. Electrical wires and fixtures must be dismantled with utmost care.
2. This work will also include dismantling of all wooden trusses and roofing sheets, senepa and flushings.

C. Hauling and Clearing of Debris

1. This work includes proper handling, turnover and disposal of debris and fixtures.
2. All dismantled electrical wires, electrical fixtures and all other fixtures and roofing sheets must be turned-over to PPS.
3. All dismantled wooden trusses in good condition must be turned over to PPS and subjected to inspection prior to disposal.
4. Concrete debris must be placed in a secure container before hauling.
5. The area should be cleared/cleaned before and after 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.

II. Carpentry Works

A. Ceiling Works

1. This work includes removal and replacement of ceiling for eaves, living room, comfort rooms, bedrooms, and kitchen of the duplex unit.
2. Use 25mm x 25mm x 0.60mm thick wall angle.
3. Use 1" concrete nail for fastening wall angle at concrete.
4. Use 19mm x 50mm x 0.60mm thick J-furring as ceiling joist, parallel to the longer sides of the room spaced at 60mm middle on center.
5. Use 12mm x 38mm x 1.0mm thick C-channel as ceiling joist, parallel to shorter sides of the room spaced at 60mm middle on center.
6. Use 12mm x 38mm x 0.55mm thick C-channel for ceiling hanger every 800mm middle on center.
7. Use ¼" thick x 1.20m x 2.40m fiber cement board for ceiling boards.
8. This work also includes installation of 1" x 2" KD cornice on all the ceiling perimeters.

B. Doors

1. This includes dismantling of all existing doors of the duplex unit.
2. Installation of the following doors.
 - a. 2.00 sets of D-1 1.0m x 2.10m Panel Door with 50mm x 125mm KD door jamb complete with accessories and heavy duty knob type lockset
 - b. 4.00 sets of D-2 0.80m x 2.10m Flush door with 50mm x 125mm KD door jamb complete with accessories and heavy duty knob type lockset
 - c. 2.00 sets of D-3 0.60m x 2.10 uPVC door with louver, door jamb and installation accessories and heavy duty knob type lockset
 - d. 2.00 sets of D-4 0.90m x 2.10m Panel door with 50mm x 125mm KD door jamb complete with accessories and heavy duty knob type lockset
3. This work also includes restoration and repainting of all damaged walls.

III. Electrical Works

1. Roughing-in
2. This work includes replacement of existing lighting power supply line.
3. Installation of new lighting fixtures and switches in accordance with the plan. Use Firefly, OMNI or approved equal.
4. Installation of new wiring devices and PVC orange conduit pipes. Use THHN copper conductor wire 99.99% copper and fire retardant.
5. Tap to the existing source.

IV. Steel Trusses and Roofing Works

A. Steel 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 and two (2) coats of black quick dry enamel.
3. Use necessary tools and equipment.
4. Use 2 - 2" x 2" x 1/4" thick angle bar for top chords, bottom chords and king posts.
5. Use 2 - 1.50" x 1.50" x 1/4" thick angle bar for web members.
6. Use 6mm thick gusset plates on all joints.
7. Use 50mm x 150mm x 1.50mm thick CEE purlins spaced at 0.60m on center.
8. Use 12mm thick base plates.
9. All joint connections should be fully welded.
10. Use 10mm sag rods with nut and washer on the midspan of trusses.

B. Roofing Works

1. Adopt gauge 26 (6mm) thick colored rib-type longspan roofing sheet.
2. Adopt gauge 26 (6mm) colored ridge roll.
3. Adopt gauge 26 (6mm) thick colored flushing.
4. Adopt Baguio Green color for the color of roofing sheets, ridge roll and flushing.
5. All attachment for roofing sheets and ridge roll shall be 2.5" teckscrew for metal.
6. Provide water sealant for all attachments. Water sealant should be provided for both inside and outside surface of the teckscrew head.

C. Installation of Fascia Board

1. Use 12mm x 305mm x 3680mm fiber cement fascia board.
2. Provide colored metal sheets/ flushing as cladding for fascia boards.

V. Painting and Miscellaneous Works

1. This work includes painting of the whole structure both interior and exterior including the newly installed doors, ceiling, steel windows and roofing.
2. For painting of cornice and doors:
 - a. Countersink nail heads for putty application.
 - b. Sand rough surfaces until smooth, then dirt off before painting.
 - c. Surface to be painted should be clean and dry, free from dust, dirt and other foreign matter.
 - d. Apply one coat of white flatwall enamel. Allow to dry overnight.
 - e. Repair minor surface imperfections with glazing putty. Let dry then sand.
 - f. Apply at least two coats of quick dry enamel in the desired color. Allow an overnight intercoating interval.
3. For painting of metals especially steel windows.
 - a. For recoating prepainted galvanized surfaces in good condition, sand slightly then wipe the surface with before applying paint.
 - b. Remove all loose paint film to sound surface.
 - c. Spot prime bare substrate.
 - d. Apply epoxy primer by brush or spray. Allow to dry for 24 hours. Apply suitable putty in imperfections.
 - e. Apply at least two coats of Quick Dry Enamel in the desired color.
4. For repainting of concrete especially the interior and exterior walls.
 - a. Scrape all loose, scaling, flaking, peeling paint as necessary. Make sure the surface is clean, dry, and good weather persists prior to painting.
 - b. For repainting concrete with chalky old paint, use chalk blocker as surface conditioner. in case of mildew infestation, treat with a bleach solution (1:3

laundry bleach to water, respectively) by swabbing or brushing. To ensure proper treatment, let stand for 24 hours before cleaning off residue. Let it dry.

- c. Apply skim coat as primer. Repair minor imperfections using suitable putty. Let it dry, then sand.
- d. Apply at least two coats of pre-mix waterproofing elastomeric paint.

Note: Color of paint will depend upon the preference of the end-user. Paints and its accessories should be Boysen 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.
- 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. 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.