



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

BILL OF QUANTITIES

REPAIR AND IMPROVEMENT OF FOUR UNITS GREEN HOUSES			Bill of Quantities		
ABC: ₱ 1,885,404.71					
COLLEGE/UNIT/CAMPUS: MAIN CAMPUS					
Item No.	Description	Unit	Quantity	Unit Price (Pesos)	Amount (Pesos)
I	DISMANTLING & CHIPPING WORKS (Pesos _____ _____ and _____ centavos)				
II	CONCRETE & MASONRY WORKS (Pesos _____ _____ and _____ centavos)				
III	MISCELLANEOUS WORKS (Pesos _____ _____ and _____ centavos)				
IV	CARPENTRY WORKS (Pesos _____ _____ and _____ centavos)				
V	TRUSSES AND ROOFING WORKS (Pesos _____ _____ and _____ centavos)				
VI	PLUMBING WORKS (Pesos _____ _____ and _____ centavos)				

VII	ELECTRICAL WORKS (Pesos _____ _____ and _____ centavos)				
VIII	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 UNITS GREEN HOUSES

GENERAL NOTES:

1. The project should be finished for 60 calendar days.
2. Site inspection is a must to verify its existing condition.

B. Technical Description

I. Dismantling and Chipping Works

1. The area should be cleared before and after the construction works at least six meters away from the building line. Unusable used formworks and all other unwanted debris of construction works should be disposed properly.
2. Dismantling of all existing trusses/roofing and columns.
3. Chipping of existing pedestal column.

II. Concrete and Masonry Works

1. Provide concrete pathwalk with 4" CHB zocalo around the perimeter of the building
W = 1.0 m Thickness: 0.10 m.
2. Concreting of pedestal columns.
3. Retouching of all chips and cracks.
- Repair all CHB walls
4. Concrete and masonry works should be plastered plain cement.

III. Miscellaneous Works

A. Supply and installation of the following:

1. Polyethylene sheet ga #5 for dome type roofing.
2. Three layers of greenhouse net with nylon rope and fishing twine for roofing and two layers for the perimeter with 16mm RSB frame and plastic screen (amazon) with aluminum profile for fixed.

- ###### **B. Remove and replace all dilapidated G.I. pipe post/frames and doors.**
- Provide heavy duty hinges and barrel bolts.

IV. Carpentry Works

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

V. Trusses and Roofing Works

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 and two (2) coats of quick dry enamel black.
3. Provide necessary tools and equipment.
4. All joint connections should be fully welded.
5. Use Galvanized CEE purlins ga. 16, 2" x 4" at 0.60 m. on center.
6. Use Galvanized CEE purlins ga. 16, 2" x 4" for fascia board.

B. Roofing

1. Polyethylene sheet ga #5 for dome type roofing
2. Adopt aluminum profile for clip/fixed.

VI. Plumbing Works

1. Supply and installation of water lines
 - Used PPR pipes and fittings
 - Supply and installation of six heavy duty faucet for every greenhouse.

VII. Electrical Works

A. Supply and installation of the following for every green house building:

1. One set of circuit breaker
 - Panel board, 4 branches
 - 1-30 AT, 100 AF Main breaker
 - 1-15AT, 1-20AT/100AF
2. Conductors and PVC conduits/ junction box/ utility box/ convenience outlet/ light outlet

- PVC conduit orange pipe
 - Utility and junction boxes should be PVC and deep type
 - THWN stranded wires with sizes indicated on the plan
3. Electrical fixtures/switches/outlets and other electrical devices
- Switches and convenience outlet (Bticino, National or approved equivalent)
 - LED bulb 12 W (3 sets)
 - Convenience outlet (3 sets)

B. Other matters concerning electrical works

1. Testing/commissioning of electrical system

VIII. **Painting Works**

A. Painting of the whole trusses, purlins and framing

1. Apply rust remover to all existing pipes affected by rust.
2. Apply epoxy primer by brush or spray. Allow to dry for 24 hours. Apply suitable putty on imperfections, then, sand.
3. Apply at least two coats of Quick Dry Enamel in the desired color.

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

- IX. 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 used or employed.