

Republic of the Philippines
BICOL UNIVERSITY
PHYSICAL DEVELOPMENT AND MANAGEMENT OFFICE
Legazpi City

Project Title: **REPAIR OF BUTC MARINE WORKSHOP BUILDING**
Location: **BUTC, Brgy. Tayhi, Tabaco City**
ABC: **₱ 6,455,850.00**
Duration: **120 C.D.**

SCOPE OF WORK & TECHNICAL SPECIFICATIONS

GENERAL CONDITIONS

All works to be undertaken shall be in accordance with the plans and working drawings. It includes the furnishing of all materials, labor and equipment with supervision necessary for the complete construction of the said project.

The plans, detailed drawings and this scope of work shall be considered as complementing with each other, so that what is mentioned or shown on one, although not mentioned or shown in another, shall be considered as appearing in both. In case of conflict between the two, the same should be referred to the designing Architect/Engineer.

ITEMS OF WORK INCLUDED

I. GENERAL REQUIREMENTS 1.00 lot

This item of work includes the provisions for Project Sign Boards, Temporary Utilities and Enclosure, and Construction Safety and Health Programs.

II. SITEWORKS 1.00 lot

This item of work includes the clearing of site and disposal of waste materials, before and after construction. The contractor shall submit the waste material prior to demobilization.

This item of work also includes dismantling and disposal of the following items:

1. Onduline Roofing	1,201.15 m ²
2. Ceiling boards and ceiling joists	1,100.00 m ²
3. Electrical wirings	1.00 lot
4. Dry wall partition	192.50 m ²
5. Comfort Rooms' Floor and Wall Tiles	129.93 m ²
6. Doors	30.00 sets
7. Windows	19.00 sets
8. Plumbing Fixtures	22.00 sets

Also included in this item of work is the rental of hauling truck as necessary to finish the work.

III. ROOFING WORKS 1,201.15 m²

This item of work includes the furnishing and installation of pre-painted 0.6mm thk. long-span corr. G.I sheet, pre-painted Ga #24 G.I flashing, 10mm thk. P.E double film roof heat insulation, tekscrew and roof sealant.

Laying should start from the opposite end direction of the prevailing monsoon wind.

Laying of long-span roofing shall conform with the manufacturer's specifications.

Apply sufficient amount of colored roof sealant to ensure leak free roofing.

All works shall be done in such a manner that will ensure a strong and lasting leak proof installation.

Each course shall be started in such a manner that the vertical joints are broken. Top sheets shall be laid with the side corrugation down, with a side lap of at least two corrugations. Each sheet laid shall be secured to the purlins with riveted straps.

Straps shall be gauged #24, 25mm wide with corners chipped off at the riveting ends. They shall be cut sufficiently long and punched at correct distance to fit the rivet holes and allow for bending around the required size purlins. One strap shall be placed at each alternate corrugation at the gutter line.

The lower end of each sheet shall be riveted to the sheet beneath such rivets to alternate with rivets engaging the straps. Side laps shall be riveted with two lines of rivets staggered and spaced as directed by the Engineer.

The intersection of all walls with roof and wherever necessary shall be flashed with G.I. gauge #24 not less than 200 mm high unless otherwise shown on the detail drawings or full size details, and all connections shall be made watertight.

Please refer to the plan for the complete details.

IV. CEILING WORKS**1,079.30 m²**

This item of work includes the installation of ceiling for faculty room, classrooms, storage rooms, and allied subjects area for goods using 3.5 mm thk. x 4' x 8' ficem boards, 0.4mm thk. double metal furring spaced at 600 mm o.c. bothways, 0.5mm thk. x 25mm x 25mm wall angles, 0.7mm carrying channel, blind rivets, s-furring clips, hangers, and Manholes w/ hangers, and Manholes w/ Metal Frames,50x50cm

This item of work also includes the installation of ceiling eaves, corridors, comfort rooms, electrical room, and janitor room using 6 mm thk. x 4' x 8' ficem boards, 1 1/2" x 1 1/2" x 1/16" thk. angle bar ceiling joists spaced at 600 mm o.c. bothways, 200mm x 2400mm x 54pcs PVC ceiling vent, 1" flat head screw, 5/16" expansion bolts, hangers, spaced at 1.2m o.c., plastic screens, epoxy primer paint, and Manhole w/ Metal Frames,50x50cm.

A. Ficem Board on Metal Furring	593.62 m ²
B. Ficem Board on Angle Bars	485.68 m ²

This item of work also includes the installation of 2" x 4" x 2 mm thk. C-channel on 100mm and 200mm x 200mm x 6mm thk. steel plate coated with epoxy primer paint, and 10mm Ø anchor bolts w/ nuts and washers. The installation will run throughout the main building area except on areas with sloped ceilings.

This item of work also includes rental of welding machine, cut-off machine, use of E-70 welding rod and acetylene with oxygen, and all other equipments needed to complete welding works.

Use bolts and or nails for wall angles.

Use 3/8" dia x 3/4" blind rivets and hangers rods, 0.4mm thk metal furring may be used as hangers rods.

It is necessary to use hacksaw blade for cutting rods and wall angles.

All materials shall be of approved high quality

Please refer to the plan for the complete details.

V. PAINTING WORKS**1,000.00 m²**

This item of work includes repainting of existing C-purlins using red oxide paint, and paint thinner.

Use only premium quality paint.

Use old newspaper, sandpapers and rugs as necessary.

The painting contractor shall supply all labor, tool and equipment necessary and shall perform all painting and finishing works as shown in the schedule of painting and other surfaces to render ready to use.

Painting materials shall be stored in one place in the building to be kept neat and clean.

Before any painting is done all surfaces shall be cleaned, smoothed and free from dust. Dirt, grease, mortar, rust and other foreign substances and all parts where paint remover has been used shall be washed off with paint or laquer thinner.

All paints shall be spread evenly and carefully.

No painting shall be done on outside work extremely cold, frosty, foggy or damp weather.

VI. DOORS AND WINDOWS**49.00 sets**

This item of works includes the fabrication and installation of the following doors and windows:

A. Doors	30.00 sets
D1- 0.90M X 2.45M panel-type swing door w/ clear glass inset & transom in ducco finish	9.00 sets
D2- 0.80M X 2.45M panel-type swing door w/ clear glass inset & transom in ducco finish	2.00 sets
D3- 1.50M X 2.45M panel-type double-swing door w/ clear glass inset & transom in ducco finish	2.00 sets
D3a- 1.50M X 2.2M panel-type double-swing door	7.00 sets
D4- 0.75M X 2.10M panel-type door	2.00 sets
D5- 0.65M X 2.10M panel-type door	2.00 sets
D6- 0.65M X 1.50M Aluminum Door w/ Louvers	6.00 sets
B. Windows	19.00 sets
W1- 0.50M X 4.00M 12mm thk clear glass awning-type window on aluminum frame powdered-coated	2.00 sets
W2- 0.50M X 2.40M 12mm thk clear glass awning-type window on aluminum frame powdered-coated	5.00 sets
W3- 0.50M X 1.75M 12mm thk clear glass awning-type window on aluminum frame powdered-coated	3.00 sets
W4- 0.50M X 3.20M 12mm thk clear glass awning-type window on aluminum frame powdered-coated	2.00 sets
W5- 0.50M X 2.00M 12mm thk clear glass awning-type window on aluminum frame powdered-coated	2.00 sets
W6- 0.50M X 4.20M 12mm thk clear glass awning-type window on aluminum frame powdered-coated	1.00 set
W7- 0.50M X 1.40M 12mm thk clear glass awning-type window on aluminum frame powdered-coated	1.00 set
W8- 0.50M X 3.00M 12mm thk clear glass awning-type window on aluminum frame powdered-coated	3.00 sets
0.50M X 1.25M 12mm thk. Clear glass	5.00 pcs