

6-118-149

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

Project Title: **COMPLETION OF BU POLANGUI COMPUTER SCIENCE
AND ENGINEERING BUILDING**
Location: **BU Polangui Campus, Polangui, Albay**
ABC: **Php 19,300,000.00**
Duration: **240 Calendar Days**

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

This program of work covers all necessary items needed for the completion of BU Polangui Campus Computer Science and Engineering Building. Such work will cover the Ground Floor construction of additional concrete pathway, transformer platform, & drainage line canal; complete renovation of comfort rooms; replacement of old existing ceilings; and repainting. On the Second Floor, this program of work will cover the construction & completion of classrooms, laboratories, storage rooms, faculty rooms/offices, corridors, and comfort rooms.

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. CIVIL WORKS

A. SITE WORKS

1.00 lot

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

This item of work also includes excavation, backfill, filling materials, compaction, and gravel beddings needed for:

<i>a. 2.0 m Concrete Pathwalk [Bounded by gridlines (5 to 6) and (B' to F')] in the Ground Floor]</i>	
Excavation	92.40 m ³
Filling Materials and Compaction	83.72 m ³
Gravel Bedding (Material & Labor)	14.17 m ³
<i>b. Drainage Line Canal with Steel Grating</i>	
Excavation	70.69 m ³
Backfilling and Compaction	10.97 m ³
Gravel Bedding (Material & Labor)	16.63 m ³
<i>c. Transformer Platform</i>	
Excavation	20.90 m ³
Backfilling and Compaction	17.42 m ³
Gravel Bedding (Material & Labor)	2.09 m ³

This item of work also includes demolition/dismantling and disposal as follows:

<i>a. Demolition and disposal of walls [Along gridline 2' (D to E); B' (5 to 6); and F' (5 to 6) in the Ground Floor; Along gridline 2' (D to E), and 1 (D to E) in the Second Floor]</i>	
Wall Area	15.16 m ²
<i>b. Dismantling and disposal of existing old ceiling in the Ground Floor</i>	
Ceiling Area	1,223.72 m ²

c. <i>Dismantling and disposal of existing tiles in the Ground Floor</i>	
Male, Female, and PWD Comfort Rooms	227.83 m ²
Porch Damaged Tiles	10.00 m ²
d. <i>Chipping works, removal and disposal of old plumbing fixtures and fittings in the Ground Floor</i>	
Labor & Misc. items	1.00 lot
e. <i>Dismantling and disposal of existing foldable partitions in the Ground Floor</i>	
Labor & Misc. items	2.00 units
f. <i>Dismantling of existing doors in the Comfort Rooms Electrical Room, Janitor's Room, and Storage Room in the Ground Floor</i>	
Labor	16.00 sets

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

B. CONCRETE WORKS **212.54 m³**

This item of work includes pouring of concrete (compressive strength, $f_c=25\text{MPa}$) for structural members comprising of wall footings, columns, beams, suspended slabs, transformer platform, and pathwalk.

GROUND FLOOR	19.24 m³
a. Concrete Pathwalk [Bounded by gridlines (5 to 6) and (B' to F')]	6.16 m ³
b. Slanted Canopy [Along gridlines B' (3' to 6), & F' (3' to 6)]	2.28 m ³
c. Wall Footing	3.36 m ³
d. Transformer Platform	7.44 m ³

SECOND FLOOR	193.29 m³
a. 4" Concrete Topping [Entire Second Floor]	150.38 m ³
b. Columns [Bounded by gridlines (4' to 6) & (A to H)]	6.98 m ³
c. Beams [Lintel beams, and beams bounded by gridlines (4 to 6) and (A to H)]	18.25 m ³
d. Concrete Gutter, and Slanted Canopy [Bounded by gridlines (4 to 6) and (A to H)]	17.69 m ³

Concrete topping at the top of the porch shall be sloped towards the drain.

This item of work also includes the rental of 1-bagger concrete mixers, concrete vibrators, plate compactor and other equipments necessary to finish the work.

All surfaces must be plain cement finished.

All materials shall be so delivered, stored and handled as to prevent the inclusion of foreign materials and the damage of materials by water or breakage.

Packaged materials shall be so delivered and stored in original packages until ready for use.

All materials delivered shall be of the respective qualities as specified.

Water to be used in gauging concrete shall be free of oil, acid, alkali, vegetable matter or other deleterious substance and shall be reasonably clear and clean. The use of sea or blackish water is not allowed.

Cements shall be of any standard commercial brand in standard 40kg bag. No re-bagged cement shall be used.

Fine aggregates used in the composition of concrete mortar, grout or plaster should consist of sand or other inert materials with similar characteristics or a combination thereof, having clean, hard, strong, durable, uncoated grains and free from injurious amount of dust, lumps, soft or flaky particles and shall not contain more than 5 percent of clay. In exposed work fine aggregates shall be free from any substance, which will discolor the concrete surface.

Coarse aggregate shall consist of crushed stones, gravel or other approved inert materials with similar characteristics or a combination thereof, having clean, hard, strong, durable, uncoated particles, free from injurious amount of soft, elongated and laminated pieces organic or other matter.

Coarse aggregate shall be well graded as to size, ranging from 6mm up to size which will readily pass between all reinforcing bars and between reinforcements and forms, but not to exceed 25mm in size for reinforced beams, floor slabs, columns, etc. and may range up to 50mm for less highly reinforced parts of structure such as footing.

Gravel under concrete slab shall be river run gravel with a maximum size of 50mm. A minimum size of 12.50mm.

Placing concrete- concrete shall be rapidly handled from the mixing site to forms and deposited as early as possible in its final position without loss of ingredients. Concrete shall be spaded and worked by hand to assure close contact to surfaces of forms and reinforcement. Concrete shall not be dropped freely