



## Scope of Works and Specifications

Project Title: **Repair and Upgrading of Diagnostic Laboratory (3m x 5m)**  
Project Owner: **Philippine Fiber Industry Development Authority RO-XI**  
Project Location: **DRFES, Bago Oshiro, Tugbok District, Davao City**

This project encloses the proposed repair and upgrade of the Diagnostic Laboratory in DRFES, Bago Oshiro, Tugbok District, Davao City, by means of improving the old stockroom into an extended Diagnostic Lab (DL) room equipped with new doors, ceiling, selected walls, and electrical lay-outs.

### I. GENERAL CONDITION

This specification intends to cover the complete construction of the project as specified in the scope of works and specifications as per approved plans and designs.

#### SCOPE OF WORKS

The work to be executed under this project shall include the supply of labor, materials, tools, and equipment necessary for the completion of the project.

Demolition of dilapidated ceiling, selected wall wooden panelboards, and windows

- Removal of old ceiling and selected wall wooden panel boards
- Removal of dilapidated windows
- Disposal of waste materials to designated scrap area

Concrete Works

- Scarification of concrete flooring
- Finishing of concrete flooring and smoothing of surface
- Disposal of waste materials to designated scrap area

Glass Works

- Installation of fixed glass wall (Analoc frame) and pocket sliding glass door (Analoc Frame)
- Installation of fixed glass window (Analoc frame)

### II. WORKMANSHIP

1. No changes to the alteration in the plans are to be made without the consent or authority of the owner. If any change or omission occurs, the contractor must provide an estimate of the work.
2. Any work or part of the work inferior and/or defective in workmanship and quality required by a reasonable interpretation of the plan and specification shall be torn down or removed immediately and replaced per the plans and specifications of the owner's satisfaction.

### III. DEMOLITION WORKS

- a. Removal of old ceiling and selected wall wooden panels



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**PHILIPPINE FIBER INDUSTRY DEVELOPMENT AUTHORITY**

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- Old ceiling shall be removed along with the selected wall wooden panels, and disposed of to designated scrap area
- b. Removal of dilapidated windows
  - Dilapidated windows shall be removed and disposed of to designated scrap area

**IV. TERMITES CONTROL**

- Application of termite control shall be performed right after site preparation and prior to major structural works.

**V. CARPENTRY WORKS**

- PVC panel boards shall be used for ceiling and selected wall area, riveted using 1/8 x 1/2 inches blind rivets.
- This work shall also include the installation of two (2) sets of pocket sliding glass door and fixed glass wall. An anteroom shall be provided to ensure the cleanliness of the controlled environment by providing a barrier to cross-contamination.

**VI. CONCRETE WORKS**

- All works under this subject/item shall be subjected to the general conditions and the entire (conditions) constructions. Under this includes concreting of post footings and all other works indicated in the plans as being concrete.
- All concrete works shall be done in accordance with the standard specifications for concrete and reinforced concrete, as adopted in Philippines, and the American Institute of Steel Construction specification as revised to the latest edition.
- a. Concreting
  - Works include Finishing of concrete floor and smoothing of surface as specified on the structural design plan using Class "B" Mixture.
  - Before concrete is deposited, all dust chips and other construction debris and extraneous matters should be removed. Concrete poured and immediately after depositing shall be thoroughly compacted.
  - The internal floor corners shall be rounded off (filleted) to as part of requisite ascetic protocol. Rounded corners are easier to clean and less prone to accumulating dust or debris.
  - The concrete floor shall be applied with elastomeric membrane

**VII. ELECTRICAL WORKS**

- Electrical works shall include the installation of 3 units of 12 watts LED lights. Two (2) units inside the laboratory and one (1) unit ins the anteroom.
- The light circuit shall be controlled by a double pole switch, surface flush type positioned inside the anteroom.
- Four (4) 3-gang outlets shall be installed inside the laboratory.
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All works for this project, except as hereinafter specified, shall be done with the use of high-quality products.

The contractor shall supply all labor, materials, tools staging, and necessary equipment and shall perform all works.





BAGONG PILIPINAS



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The contractor shall store his materials in one place in the building to be kept neat and clean, care being taken in the storage of PVC materials, cement, adhesives, electrical materials, etc.

Upon completion of all the works, the contractor shall remove any spots from all finished works. He shall present his work to the Project Engineer In-Charge of construction, free from blemishes and rubbish generated by his workers.

All materials shall be delivered to the building site in unbroken packages, bearing the marks of the specified brands. No alteration of specified materials with the other brands shall be allowed.



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**PROJECT: REPAIR AND UPGRADING OF DIAGNOSTIC LABORATORY (3m x 5m)**

**LOCATION: DRFES, Bago Oshiro, Tugbok District, Davao City**

**BILL OF MATERIALS**

**A. Dismantling/Removal of dilapidated windows and floor finishing**

Item No.	Description	Quantity	Unit	Unit Price	Cost
1	Labor for floor dismantling	1	lot		
2	Labor for window dismantling	1	lot		
				<b>Cost</b>	

**B. Termites Control**

Item No.	Description	Quantity	Unit	Unit Price	Cost
1	Labor and materials for Termites Control	1	lot		
				<b>Cost</b>	

**C. Installation of glass wall, door, and fixed window**

Item No.	Description	Quantity	Unit	Unit Price	Cost
1	Pocket Sliding Door, Analoc frame (80x50in)	2	set		
2	Fixed Glass Wall, Analoc frame (100x55in, 50x20in)	2	set		
3	Fixed Glass Window, Analoc frame (44x24in)	3	set		
				<b>Material Cost</b>	
				<b>Labor Cost</b>	

**D. Refurbishing/Modifying of Storage Room into Fusarium Wilt Laboratory**

Item No.	Description	Quantity	Unit	Unit Price	Cost
1	PVC Ceiling, 25 cm	20	sheet		
2	PVC Panel Connector, 8mm x 2.9m	7	pcs		
3	PVC Board (wall), 4'x8'	6	sheet		
4	Blind Rivets, 1/8 x 1/2 inches	1	box		
5	Rubber-based adhesive	12	pack		
6	Cement	12	bags		
7	Sand	3	cubic m.		
8	Concrete Nails	2	kg		
9	Elastomeric membrane (sealer and filler)	2	container		
10	Skim Coat	2	container		
				<b>Material Cost</b>	
				<b>Labor Cost</b>	



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E. Installation of wiring connections for the Fusarium Wilt Laboratory

Item No.	Description	Quantity	Unit	Unit Price	Cost
1	12watts LED Lights, with receptacle	3	set		
2	#12/2 AWG THHN wire, NM-B	50	m		
3	Double pole switch, surface flush type	1	set		
4	3-gang outlet	4	set		
5	Wire staples, 3/4", 100pcs/box	1	box		
5	Electrical tape, big (0.16mmx19mmx16m)	2	pcs		
				<b>Material Cost</b>	
				<b>Labor Cost</b>	

Materials

Labor

Mobilization

**Direct Cost**

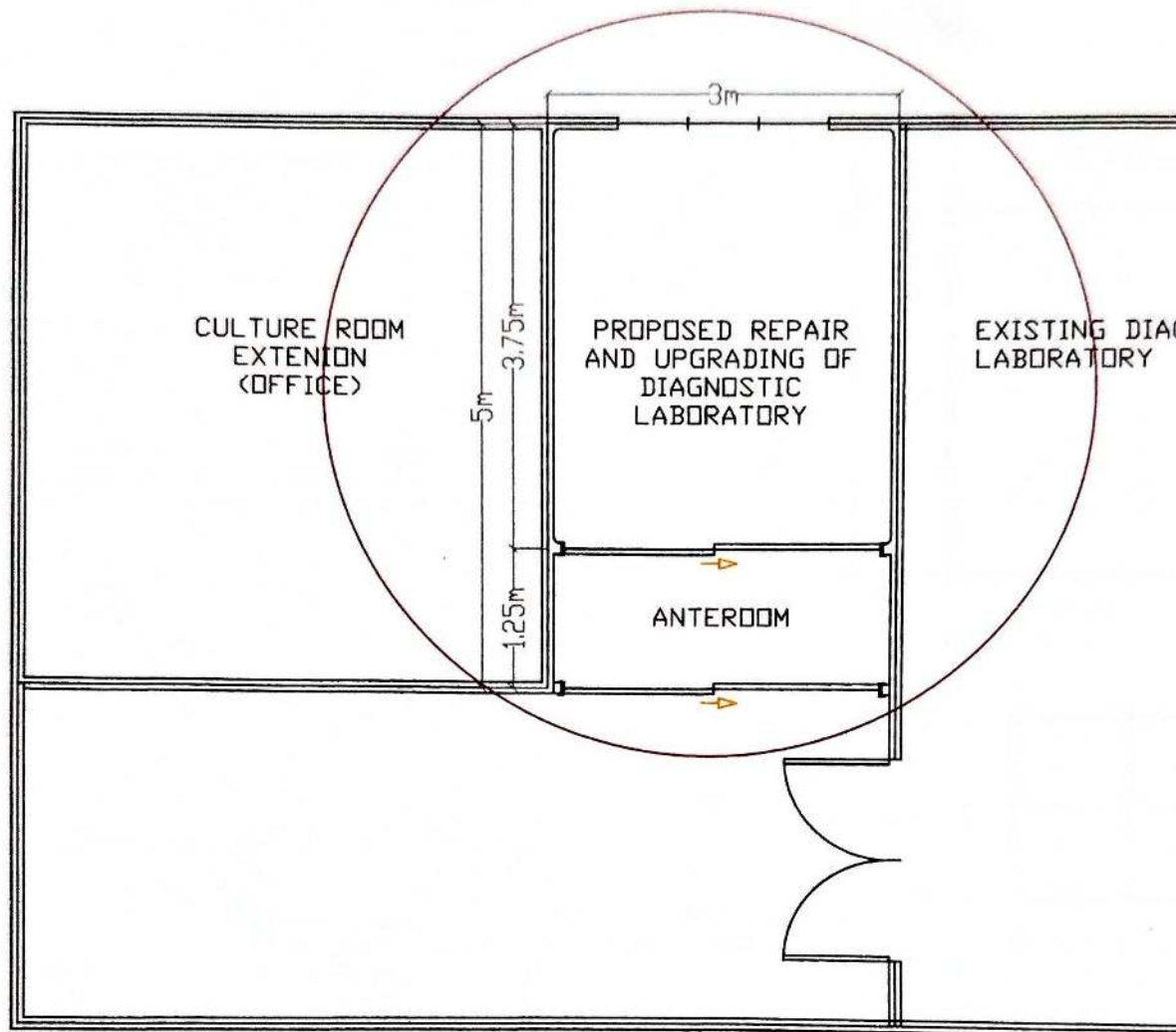
Overhead Cost & Mark-up

Contractor's Profit


VAT

**In-direct Cost**

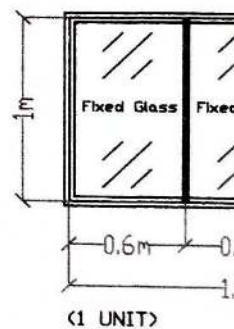
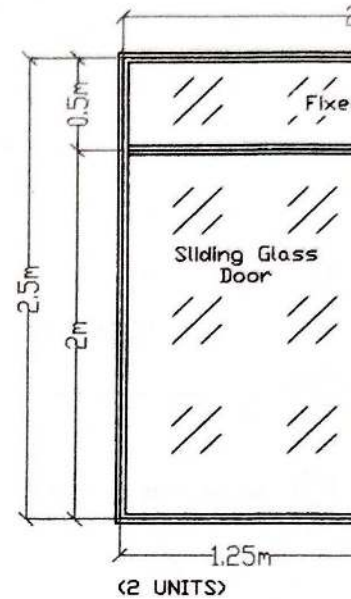
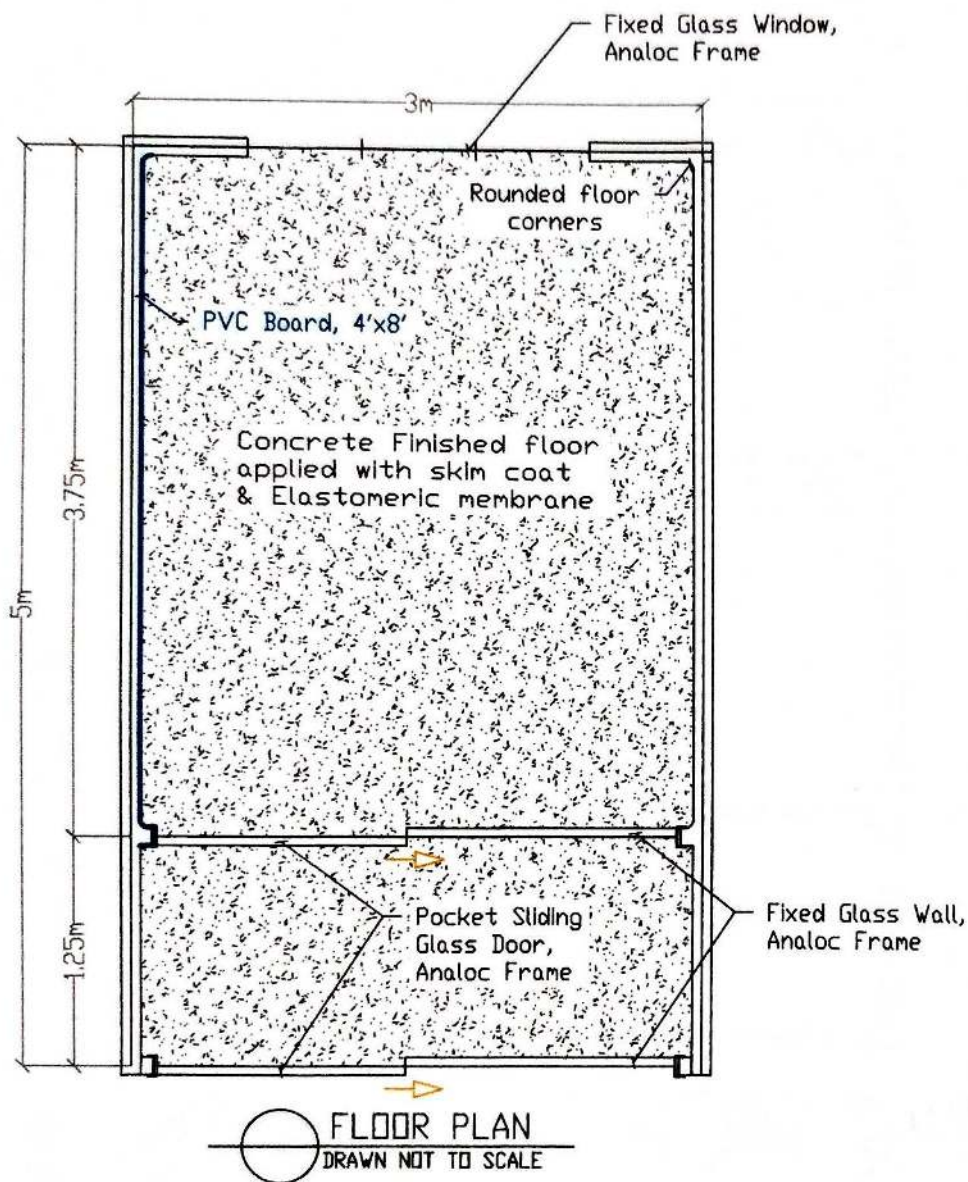
**TOTAL COST**



FLOOR PLAN  
DRAWN NOT TO SCALE


OWNER	PROJECT TITLE/LOCATION	SHEET CONTENT	DRAWN/PREPARED BY	REVIEWED & RECOMMENDED BY	RECOMMENDING APPROVING
 <b>PHILIPPINE FIBER INDUSTRY DEVELOPMENT AUTHORITY</b> REGIONAL OFFICE XI AND XII 2F GB CAM BUILDING, MONTEVERDE ST. DAVAO CITY	REPAIR AND UPGRADING OF DIAGNOSTIC LABORATORY (3M X 5M) ORFES, BAGO CASHING, TURBICK DISTRICT, DAVAO CITY	AS SHOWN	ENGR. MELROSE R. P. EMBIADO PDOI <small>PRC License No. 90111111 Valid until March 11, 2027</small>	ENGR. NOVELYN T. CORPUZ ENGINEER II <small>PRC License No. 00078565 Valid until November 13, 2025</small>	MARIA GINA OIC, RESEA



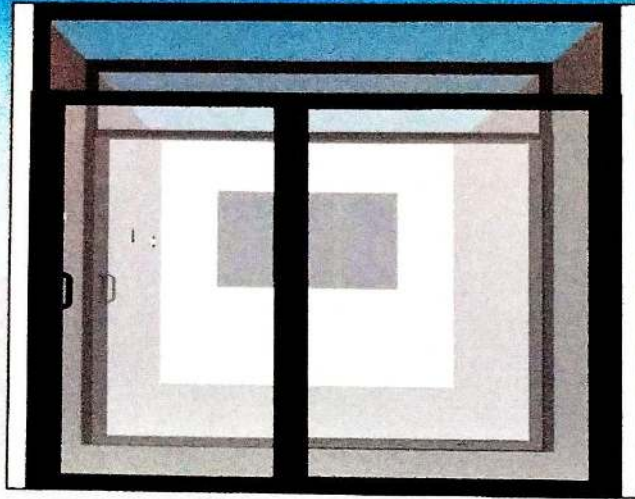


DOOR AND WINDOW  
DRAWN NOT TO SCALE

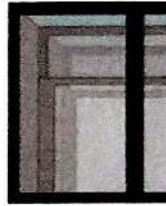
OWNER	PROJECT TITLE/LOCATION	SHEET CONTENT	DRAWN/PREPARED BY	REVIEWED & RECOMMENDED BY	RECOMMENDING APPROV
<b>PHILIPPINE FIBER INDUSTRY DEVELOPMENT AUTHORITY</b> REGIONAL OFFICE XI AND XII 2F GB CAM BUILDING, MONTEVERDE ST., DAVAO CITY	REPAIR AND UPGRADING OF DIAGNOSTIC LABORATORY (5m x 5m) DRPES, BAGO CANTERO, TUSBOK DISTRICT, DAVAO CITY	AS SHOWN	ENGR. MELROSE M. P. EMBIADO P.D.	ENGR. NOVELYN T. CORPUZ ENGINEER II	MARIA GINA OIC, RESEARCH
			PRC License No. 0611151 Validity: March 11, 2027	PRC License No. 0007866 Validity: November 19, 2025	

OWNER		PROJECT TITLE/LOCATION		SHEET CONTENT		DRAWN/PREPARED BY		REVIEWED & RECOMMENDED BY		RECOMMENDING APPROV	
	PHILIPPINE FIBER INDUSTRY DEVELOPMENT AUTHORITY REGIONAL OFFICE XI AND XII 2F GB CAM BUILDING, MONTERVERDE ST., DAVAO CITY	REPAIR AND UPGRADING OF DIAGNOSTIC LABORATORY 3M x 5M CHPES, Bando Campes, Tubigon DISTRICT, DAVAO CITY	AS SHOWN	ENGR. MELROSE R. P. EMBIADO		ENGR. NOVELYN T. CORPUZ				MARIA GINA OIC, ROSALES	
				PRO I		ENGINEER II					
				PREPARED BY: DRILLIST DATE: MARCH 1, 2017		PREPARED BY: 007766 DATE: MARCH 13, 2015					

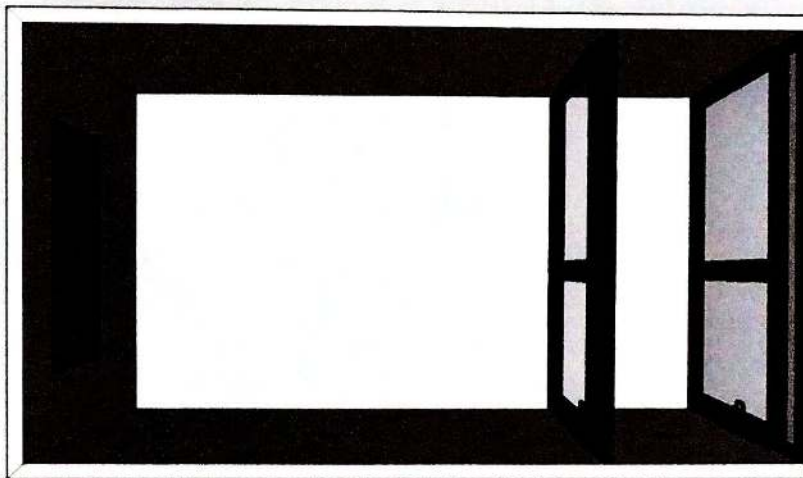




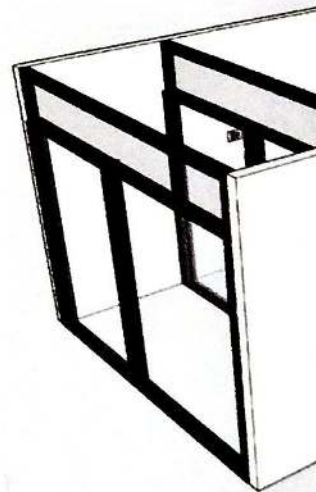
FRONT ELEVATION  
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R  
D



TOP VIEW  
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R  
D

OWNER	PROJECT TITLE/LOCATION	SHEET CONTENT	DRAWN/PREPARED BY:	REVIEWED BY:	RECOMMENDATION APPROVAL:
	PHILIPPINE FIBER INDUSTRY DEVELOPMENT AUTHORITY 3/F DAPCAI BLDG DEPARTMENT OF AGRICULTURE ELLIPTICAL ROAD, DILIMAN, QUEZON CITY	REPAIR AND UPGRADING OF DIAGNOSTIC LABORATORY (3M x 5M)  DRFES, BAGO OSHIRO, TUGBOK DISTRICT, DAVAO CITY	AS SHOWN	ENGR. MELROSE ROTE P. EMBIADO PROJECT DEVELOPMENT OFFICER I	ENGR. NOVELYN T. CORPUZ ENGINEER II
				PRC LICENSE No. 0011151 VALIDITY: MARCH 11, 2027	PRC LICENSE No. 0007556 VALIDITY: NOVEMBER 19, 2025
					MARIA GIN... OIC, RESE...