

"EXTENSION OF FABRICATION LABORATORY (FAB LAB)"

Key Personnel Required

Electrical Engineer, Prof. Electronics Engineer, Mechanical Engineer, Materials & Safety Engineer/First Aider

**A. BUILDING COST**

Item No.	SCOPE OF WORKS/ DESCRIPTION	% Weight	Qty	Unit	Unit Cost	Total Amount (PhP)
<b>1.0</b>	<b>GENERAL REQUIREMENTS</b>					
	Includes Professional fees for sign and seal of plans, final inspection and certificates and completion, as-built plans (architectural, structural, electrical, sanitary/plumbing, mechanical and electronics), testing and commissioning of installed equipments, occupancy permits, materials testing, water & electricity, temporary facilities and enclosures, safety and health requirements.					
1.1	Permits (Building and Occupancy Permits Processing & Fire code fees, Sign and Seal, As-Built Plans,		1.00	lot		
1.2	Material Testing		1.00	lot		
1.3	Water and Electricity		1.00	lot		
1.4	Health and Safety Requirements (PPE, uniform & signages)		1.00	lot		
<b>Sub-total (Work Item Cost)</b>						<b>0%</b>
<b>2.0</b>	<b>SITE WORK</b>					
	Includes supply of necessary materials and manpower for clearing and hauling of debris /removed materials and excavated soil, backfilling (approved filling material), foundation bed (gravel/ boulders), and termite proofing.					
2.1	Temporary Facilities (Site enclosure and Materials storage)		1.0	lot		
2.2	Mobilization/Demob, Clearing and Layout		1.0	lot		
2.3	Excavation & Backfilling		1.0	lot		
2.4	Gravel/Boulder Fill (Foundation bed), Structural Fill		1.0	lot		
2.5	Termite Proofing		1.0	lot		
<b>Sub-total (Work Item Cost)</b>						
<b>3.0</b>	<b>CONCRETE WORKS</b>					
	Includes supply of materials, labor and necessary equipment for the concreting of foundations, grade beams and wall footings, ground floor slabs and steps on fill, columns, second floor beams and slabs, lintel beams and ledges/canopies, including rebars and formworks.					
3.1	Footings and tie beams/grade beams			cu.m.		
3.2	Columns from footing to 2nd floor beams and stiffener columns			cu.m.		
3.3	2nd Floor Beams and Slabs			cu.m.		
3.4	Ground Floor Slab on Fill Socalo, Catch basins			cu.m.		
<b>Sub-total (Work Item Cost)</b>						
<b>4.0</b>	<b>MASONRY WORK</b>					
	Includes laying or installation of CHB on exterior and interior walls/ partitions with size and thickness as specified in the plans including rebars and mortar.					
4.1	6" CHB			sqm		
4.2	4" CHB			sqm		
<b>Sub-total (Work Item Cost)</b>						
<b>5.0</b>	<b>METAL WORKS</b>					
	Includes Fabrication and installation of steel roof framing as per plan and specifications, stairs, handrails and railings					
5.1	Roof Framing			sq.m.		
5.2	Stairs, Handrails and Railings, Window Grills		1.00	lot		
<b>Sub-total (Work Item Cost)</b>						
<b>6.0</b>	<b>MOISTURE AND THERMAL PROTECTION</b>					
	Includes supply and installation of prepainted longspan roofing and accessories including insulation, integral and cementitious waterproofing for roof deck and rear balcony slab and other areas as per plan and materials					
6.1	Metal Roofing & Insulation			sq.m.		
<b>Sub-total (Work Item Cost)</b>						

	analok frame with heavy duty lockset					
	W-4 (0.90 x0.90) Sliding Glass Window-6mm thk Brown Glass on 2.0mm thk analok frame with heavy duty lockset				set	
	W-5 (0.90 x 2.70) Sliding Glass Window-6mm thk Brown Glass on 2.0mm thk analok frame with heavy duty lockset				set	
	W-6 (1.20 x2.80) Fixed Glass Window-6mm thk Brown Glass on 2.0mm thk analok frame				set	
	W-7 (2.10x2.40) Fixed Glass Window-6mm thk Brown Glass on 2.0mm thk analok frame				set	
	W-8 (0.60x0.60) Awning Glass windows - 6mm thk bronze glass on 2.0mm thk. analok frame.				set	
	W-9(0.60x.60) Vent type Window (metal louvers)				set	
	W-10 Vent Type window as prer specifications				set	
	W-11 Vent Type window as prer specifications				set	
	W-12 Vent Type window as prer specifications				set	
	W-13 Louver type window				set	
<b>Sub-total</b>						-
<b>7.2</b>	<b>Doors</b>					
	Supply and installation of doors to include door hardwares as locks, hinges and door stoppers and door jambs for wooden doors.					
	D-1 Metal Door (2.6m W x 2.10mH, 4 panels) Ga. 18 plain G.I. Sheet on 2x4 Tubular Framing				set	
	D-2 Double Swing Metal type door with accoustic fiber, including jamb and hardwares (2.4x2.10)				unit	
	D-3 Metal type door including jamb and hardwares (0.80x2.10)				sq.m.	
	D-4 Flush Hollow Core Door, both sides marine plywood, automotive lacquer finish, including jamb and hardwares				sq.m.	
	D-5 Metal type door including jamb and hardwares (1.00x2.10)				sq.m.	
	D-6 Metal type door including jamb and hardwares (0.80x2.10)				units	
	D-7 Metal type door including jamb and hardwares (0.80x1.60)				units	
<b>Sub-total</b>						
<b>Sub-total (Work Item Cost)</b>						-
<b>8.0</b>	<b>CARPENTRY</b>					
	Supply and installation of ceiling framing and boards					
8.1	Dropped Ceiling (Cement Fiber Board Ceiling) at second floor lecture room.			-	sq.m.	
8.2	Welding Booth Partitions (Double wall Metal Cladding on metal framing)				sq.m.	
8.3	Interior Partion (Double wall Marine Plywood on metal framing)					

and lighting fixtures, including homeruns and testing as per plan and specifications,						
10.1	Fixtures and devices					
10.2	Panel Board-		1.00	lot		
10.3	Conduits and Boxes:		1.00	set		
<b>Sub-total (Work Item Cost)</b>						
<b>Sub-total</b>						
<b>Sub-total</b>						
11.0	<b>MECHANICAL WORKS</b>					
	Fume Extraction system as per plans and pecifications					
11.1	Welding Fume Extractor		1.00	unit		
11.2	Plasma Cutter Fume Extractor		1	unit		
<b>Sub-total (Work Item Cost)</b>						
12	<b>PLUMBING</b>					
Supply and installation of of all rough-in and embedded works for plumbing, fixtures and hardwares as per plan and						
12.1	Sanitary Pipes and Fittings, Downspouts and Drainage lines as per plan		1.00	lot		
12.2	Cold Water Line		1.00	lot		
12.3	Fixtures and Hardwares		1.00	lot		
<b>Sub-total (Work Item Cost)</b>						
13.0	<b>ELECTRONIC WORKS</b>					
	Includes installation of roughing-ins for Fire detection and Alarm system, Data, Telephone and CCTV network cables					
13.1	Roughing-ins and UTP cable		1	lot		
<b>Sub-total (Work Item Cost)</b>						
<b>TOTAL PROJECT COST</b>						
<b>BREAKDOWN OF PROJECT COST:</b>						
	<b>DIRECT COST</b>	<b>Materials</b>				
		<b>Labor</b>				
		<b>Equipment</b>				
		<b>TOTAL</b>				
	<b>INDIRECT COST</b>	<b>O.C.M. &amp; Profit</b>				
		<b>Tax</b>				
		<b>TOTAL</b>				
<b>TOTAL PROJECT COST</b>						

Total bid cost in words:

\_\_\_\_\_

Submitted by:

\_\_\_\_\_  
Contractor/Bidder

\_\_\_\_\_  
Owner/ Authorized Representative

\_\_\_\_\_  
Address

\_\_\_\_\_  
Date