

LETTERHEAD

PROGRAM OF WORKS BILL OF QUANTITIES REPAIR 2020-CAR-BAGUIO CITY-005

School : STO TOMAS NATIONAL HIGH SCHOOL			Date:			
School I.D 305279			Budget Allocation: PHP 1,858,088.97			
Region : CAR			Engineering and Administrative Overhead:			
Division BAGUIO CITY			Approved Budget for the Contract: PHP 1,858,088.97			
Project Title			Completion Period: 150 CD			
: REPAIR AND REHABILITATION OF SCHOOL BUILDING (4CL)			Minimum Required Manpower:			
			General Foreman		Welder	Carpenter
			Helper		Mason	Painter
Plan :			Minimum Required Equipment:			
Location :STO TOMAS,BAGUIO CITY			Hand Tools		Welding Machine	
			One-Bagger Mixer		Bar Cutter	
ITEM NO.	Item Description	% of Total	Unit	Quantity	Total Cost	Remarks
	I. DIRECT COST					
	GENERAL REQUIREMENTS		lot	1.00		
	BLDG 1: DEPED BLDG 2STY 4 CL (7X8M)					
1.000	Earthworks		cu.m	0.38		
2.000	Concreting Works		cu.m	10.93		
3.000	Rebar Works		kg	1,033.96		
4.000	Formworks		bdft	1,868.00		
5.000	Masonry Works		sqm	402.68		
6.000	Doors and Windows		lot	1.00		
8.000	Roofing Works		lot	1.00		
9.000	Ceiling and Carpentry Works		bdft	3,585.53		
10.000	Electrical Works		lot	1.00		
12.000	Sanitary Works		lot	1.00		
13.000	Painting Works		sqm	1,108.36		
14.000	Tile Works		sqm	168.00		
	Sub-Total					
	II. INDIRECT COST _____% of (I-General Requirements)					
	Overhead Expenses (8%)					
	Contingencies (3%)					
	Miscellaneous (1%)					
	Contractor's Profit (_____%)					
	Sub-Total					
	III. TAX 5% of (I+II)					
	Sub-Total					
	IV. TOTAL CONSTRUCTION COST (I + II + III)	100.00%				

Prepared By:

Contractor's Name and Signature

Letterhead

PROGRAM OF WORKS DETAILED COST ESTIMATE

PROJECT : REPAIR AND REHABILITATION OF SCHOOL BUILDING (4CL)
SCHOOL : STO TOMAS NATIONAL HIGH SCHOOL
LOCATION : STO TOMAS, BAGUIO CITY
OWNER : DEPARTMENT OF EDUCATION

ITEM NO.	DESCRIPTION	UNIT	QTY	UNIT COST		TOTAL COST		GRAND TOTAL
				MATERIAL	LABOR	MATERIAL	LABOR	
	GENERAL REQUIREMENTS							
	Mobilization/Temporary Structures, Utilities and Services/Demobilization	lot	1.00					
	Safety and Health	lot	1.00					
	Project Billboard	lot	1.00					
	Sub-total							
	BLDG 1: DEPED BLDG 2STY 4 CL (7X8M)							
1.0000	Earthworks							
1.0200	Structural Excavation	cu.m	0.38					
1.0300	Backfilling and Compaction	cu.m	0.25					
1.0400	Gravel Bedding G-1	cu.m	0.01					
	Sub-total							
2.0000	Concreting Works							
	Column Footing	cu.m	0.11					
2.0200	Portland Cement	bag	2.00					
2.0400	Crushed Gravel 1"	cu.m	0.25					
2.0500	Washed Sand	cu.m	0.25					
	Columns	cu.m	2.30					
2.0200	Portland Cement	bag	21.00					
2.0300	Crushed Gravel 3/4"	cu.m	2.50					
2.0500	Washed Sand	cu.m	1.25					
	Second Floor Slab	cu.m	6.80					
2.0200	Portland Cement	bag	62.00					
2.0300	Crushed Gravel 3/4"	cu.m	7.00					
2.0500	Washed Sand	cu.m	3.50					
	Roof Beams	cu.m	1.71					
2.0200	Portland Cement	bag	16.00					
2.0300	Crushed Gravel 3/4"	cu.m	1.75					
2.0500	Washed Sand	cu.m	1.00					
	Sub-total							
3.0000	Rebar Works							
	Column Footing	kg	14.80					
	Columns	kg	273.80					
	Second Floor Slab	kg	449.36					
	Roof Beams	kg	296.00					
3.0900	Deformed Round Bars, Grade 33	kg	1,033.96					
3.1200	G.I. Tie Wire	kg	21.00					
	Sub-total							
4.0000	Formworks							
	Columns	sqm	43.32					
4.0100	Coco Lumber or Equivalent	bd.ft	737.00					
4.0300	Plywood Ordinary, 1/2" x 4' x 8'	pc	12.00					
4.0400	CWN, Assorted	kg	11.00					
	Suspended Slab	sqm	56.00					
4.0100	Coco Lumber or Equivalent	bd.ft	952.00					
4.0300	Plywood Ordinary, 1/2" x 4' x 8'	pc	15.00					
4.0400	CWN, Assorted	kg	14.00					
	Roof Beams	sqm	10.50					
4.0100	Coco Lumber or Equivalent	bd.ft	179.00					
4.0300	Plywood Ordinary, 1/2" x 4' x 8'	pc	3.00					
4.0400	CWN, Assorted	kg	3.00					
	Sub-total							
5.0000	Masonry Works							
	Masonry Wall	sqm	111.56					
5.0200	CHB 6" thk	pc	1,395.00					
2.0200	Portland Cement	bag	56.00					
2.0500	Washed Sand	cu.m	5.00					
5.0400	10mm x 6m RSB	kg	148.00					
3.1200	G.I. Tie Wire	kg	3.00					
	Plastering	sqm	223.12					
2.0200	Portland Cement	bag	74.00					
2.0500	Washed Sand	cu.m	8.00					
	Floor Topping	sqm	68.00					
2.0200	Portland Cement	bag	45.00					
2.0500	Washed Sand	cu.m	5.00					
	Sub-total							
6.0000	Doors and Windows							
6.0200	Removal of Window with Jamb	sq.m	26.82					
	Refurbishment of Steel Doors	set	2.00					
6.0320	D-1, Steel Door 0.90m x 2.10m on Steel Door Jamb complete with Accessories (Inclg lockset)	set	2.00					
6.1400	Steel Encased Clear Glass Window with Grilles	sq.ft	222.22					
6.1200	Aluminum Casement Window	sq.m	15.12					
6.1510	Window Grille (WG - 1)	set	4.00					
6.1520	Window Grille (WG - 2)	set	4.00					
	Sub-total							

8.0000	Roofing Works								
8.0100	Removal of Roofing Sheets	sq m	178.37						
8.0200	Removal of Ridge Roll	pc	5.00						
8.0300	Removal of Flashing	pc	12.00						
8.0400	Removal of Gutter	pc	10.00						
8.0500	Removal of Fascia Board	pc	12.00						
8.0600	G.I. Long-Span Roofing, Corrugated, Pre-Painted, 1220mm x 0.4mm BMT	lm	302.40						
8.0700	G.I. Ridge Roll, Preformed, Pre-Painted, 0.610m x 2.440m x 0.6mm BMT	pc	10.00						
8.0800	G.I. Flashing, Preformed, Pre-Painted, 0.610m x 2.440m x 0.4mm BMT	pc	12.00						
8.1000	Teckscrow 2-1/2"	pc	1,426.97						
8.1100	Blind Rivets	pc	220.00						
8.1300	Roof Sealant	L	4.00						
	Sub-total								
9.0000	Ceiling and Carpentry Works								
	Trusses and Members								
9.0070	Removal of Wooden Truss/ Beams	bd.ft	1,119.00						
9.0080	Removal of Purlins	bd.ft	662.00						
9.1700	Rough Lumber, Sun Dried, Tanguile or Equivalent	bd.ft	1,780.00						
4.0400	CWN, Assorted	kg	25.00						
9.1900	Wood Preservative	L	10.00						
7.1810	Machine Bolts (10 mm dia.)	pc	210.00						
7.1600	Anchor Bolt with Nuts and Washer, 12mmØ x 50mm x 150mm	pc	28.00						
9.2200	Concrete Nails	kg	10.00						
	Girder, Solid Bridging and Floor Joist								
9.2400	Removal and Reinstallation of T&G Flooring	sqm	56.00						
9.2500	Removal of Girders, Floor Joist	bd.ft	518.38						
9.1700	Rough Lumber, Sun Dried, Tanguile or Equivalent	bd.ft	528.75						
4.0400	CWN, Assorted	kg	10.00						
9.2200	Concrete Nails	kg	5.00						
	Interior Ceiling	sq.m	224.00						
9.0100	Removal of Ceiling	sq.m	168.00						
9.0200	Plywood, Ordinary 1/4" x 4' x 8'	pc	76.00						
9.1700	Rough Lumber, Sun Dried, Tanguile or Equivalent	bd.ft	979.00						
9.2100	Finishing Nails	kg	5.00						
4.0400	CWN, Assorted	kg	18.00						
9.2200	Concrete Nails	kg	5.00						
9.1900	Wood Preservative	L	6.00						
	Exterior Ceiling								
9.0100	Removal of Ceiling	sq.m	51.20						
8.1500	Flat Sheets, Pre-Painted, Ordinary, 0.915m x 2.440m x 0.4mm thk	pc	18.00						
9.1700	Rough Lumber, Sun Dried, Tanguile or Equivalent	bd.ft	224.00						
9.1400	25mm x 25mm x 300mm Wood slats @25mm clear spacing ceiling ventilation (provide stainless steel wire mesh inside)	pc	6.00						
9.2100	Finishing Nails	kg	1.00						
4.0400	CWN, Assorted	kg	5.00						
9.2200	Concrete Nails	kg	1.00						
9.1900	Wood Preservative	L	2.00						
	Blackboard	sqm	17.28						
9.1700	Rough Lumber, Sun Dried, Tanguile or Equivalent	bd.ft	73.79						
9.2000	Lawanit, 1/4" thk	pc	6.00						
9.2100	Finishing Nails	kg	1.00						
9.2200	Concrete Nails	kg	1.00						
4.0400	CWN, Assorted	kg	2.00						
	Sub-total								
10.0000	Electrical Works								
	Roughing-ins								
10.0100	Electrical Conduit uPVC, 15mmØ	pc	96.00						
10.0500	RSC 25mmØ	pc	1.00						
10.0900	Entrance Cap 25mm dia.	pc	1.00						
10.1200	Junction Box, 4" x 4" G.I.	pc	30.00						
10.1300	Utility Box, 2" x 4" G.I.	pc	30.00						
10.1400	Grounding Rod, 2.4m x 16mm dia.	pc	1.00						
	Wires & Fixtures								
10.1600	3.5 mm² THHN Wire, Stranded	m	864.00						
10.1800	14.0 mm² THHN Wire, Stranded	m	10.00						
10.2700	Duplex Convenience Outlet, Grounding Type, 20A, 250V	set	12.00						
10.2900	Single Pole Wall Switch in One Switch Plate (10 AMP, 230V)	set	3.00						
10.3100	2 Single Pole Wall Switches in One Switch Plate (10 AMP, 230V)	set	5.00						
10.3200	3 Single Pole Wall Switches in One Switch Plate (10 AMP, 230V)	set	2.00						
10.3620	FL 2 x 40W Industrial Type	set	23.00						
10.5600	Incandescent Bulb 50W	set	3.00						
10.5700	Ceiling Receptacle 3-1/2"Ø	pc	3.00						
10.3800	Panel Box, Flush Type, 8 Branches	set	1.00						
10.4410	Circuit Breaker, 60A 2P	set	1.00						
10.4100	Circuit Breaker, 20A 2P	set	6.00						
10.5500	Electrical Tape	pc	4.00						
10.5100	Fire Alarm Bell, Vibrating Type	set	1.00						
	Sub-total								
12.0000	Sanitary Works								
12.0600	PVC Sanitary Pipe 3"Ø x 3.0m	pc	12.00						
12.1000	PVC Sanitary Elbow 90° x 3"Ø	pc	12.00						
12.3000	PVC Cement	can	2.00						
	Sub-total								

13.0000	Painting Works						
	Concrete Surfaces	sqm	854.48				
13.0100	Neutralizer	gal	11.00				
13.0200	Latex, Flat	gal	35.00				
13.0400	Latex, Semi Gloss	gal	35.00				
13.0300	Masonry Putty	gal	43.00				
13.0500	Acri Color	qrt	9.00				
	Wood Surfaces and Handrail	sqm	253.88				
13.0600	Enamel, Flatwall	gal	13.00				
13.0800	Enamel, Semi Gloss	gal	13.00				
13.0700	Glazing Putty	gal	11.00				
13.0900	Paint Thinner	L	7.00				
	Sub-total						
14.0000	Tile Works						
	Classroom Flooring	sqm	168.00				
14.0600	Unglazed Floor Tiles 40cm x 40cm	pc	1,050.00				
14.0300	Tile Adhesive 25 kg/bag	bag	31.00				
14.0500	Tile Grout 5 kg/bag	bag	13.00				
	Sub-total						
	DIRECT COST						
	INDIRECT COST % of (I-Gen Requirements)						
	TAX 5% of (I + II)						
	TOTAL CONSTRUCTION COST (I + II + III)						

Prepared By:

Contractor's Name and Signature