

LETTER HEAD

PROGRAM OF WORK BILL OF QUANTITIES						
REPAIR 2019 - CAR - BAGUIO CITY - 010						
School : STO. TOMAS ELEMENTARY SCHOOL				Date: SEPTEMBER 20, 2019		
School I.D : 136391				Budget Allocation: PHP 6,256,912.93		
Region : CAR				Engineering and Administrative Overhead: PHP 0.00		
Division : BAGUIO CITY				Approved Budget for the Contract: PHP 6,256,912.93		
Project Title :				Completion Period: 120 calendar days		
: PROPOSED REPAIR AND REHABILITATION OF VARIOUS SCHOOL BUILDING (14CL)				Minimum Required Manpower:		
				Project Engineer Material Engineer Electrician		
				General Foreman Welder Carpenter		
				Helper Mason Painter		
Plan :				Minimum Required Equipment:		
Location : STO. TOMAS, BAGUIO CITY				Various 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						
Marcos Pre-Fab. Bldg. #1 2sty-4classroom - Principal's Office						
1.000	Earthworks		cu.m	6.22		
2.000	Concreting Works		cu.m	3.91		
3.000	Rebar Works		kg	211.78		
5.000	Masonry Works		sq.m	3.97		
6.000	Doors and Windows		lot	1.00		
7.000	Steel Works		kgs	349.11		
8.000	Roofing Works		sq.m.	193.14		
9.000	Ceiling and Carpentry Works		sq.m.	511.32		
10.000	Electrical Works		lot	1.00		
11.000	Plumbing Works		lot	1.00		
12.000	Sanitary Works		lot	1.00		
13.000	Painting Works		sq.m.	794.48		
14.000	Tile Works		sq.m.	167.70		
Bagong Lipunan Building (2 Storey - 10 Classrooms)						
1.000	Earthworks		cu.m.	17.80		
2.000	Concreting Works		cu.m.	9.23		
3.000	Rebar Works		lot	1.00		
5.000	Masonry Works		sq.m.	37.92		
6.000	Doors and Windows		lot	1.00		
7.000	Steel Works		lot	1.00		
8.000	Roofing Works		sq.m.	474.32		
9.000	Ceiling and Carpentry Works		sq.m.	1,117.22		
10.000	Electrical Works		lot	1.00		
11.000	Plumbing Works		lot	1.00		
12.000	Sanitary Works		lot	1.00		
13.000	Painting Works		sq.m.	2,263.13		
14.000	Tile Works		sq.m.	426.96		
Sub-Total						
II. INDIRECT COST ____% of (I)						
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
(Name of Firm)

LETTER HEAD

PROGRAM OF WORK

DETAILED COST ESTIMATE

REPAIR 2019 - CAR - BAGUIO CITY - 010

PROJECT

: PROPOSED REPAIR AND REHABILITATION OF VARIOUS SCHOOL BUILDING (14CL)

SCHOOL

: STO. TOMAS ELEMENTARY 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	
A	GENERAL REQUIREMENTS	lot	1.00					
	Mobilization/Temporary Structures, Utilities and Services/Demobilization	lot	1.00					
	Safety and Health	lot	1.00					
	Project Billboard	lot	1.00					
	Sub-total							

Marcos Pre-Fab. Bldg. #1 2sty-4classroom - Principal's Office

1.0000	Earthworks	cu.m	6.22					
1.0200	Structural Excavation	cu.m	6.22					
1.0400	Gravel Bedding G-1	cu.m	2.04					
	Sub-total							
2.0000	Concreting Works	cu.m	3.91					
	Drainage Canal / Water Tank Foundation	cu.m	3.91					
2.0200	Portland Cement	bag	36.00					
2.0400	Crushed Gravel 1"	cu.m	4.00					
2.0500	Washed Sand	cu.m	2.00					
	Sub-total							
3.0000	Rebar Works	kg	211.78					
3.0900	Deformed Round Bars, Grade 33	kg	211.78					
3.1200	G.I. Tie Wire	kg	2.00					
	Sub-total							
5.0000	Masonry Works	sq.m	3.97					
	Plastering	sq.m	3.97					
2.0200	Portland Cement	bag	2.00					
2.0500	Washed Sand	cu.m	1.00					
	Sub-total							
6.0000	Doors and Windows	lot	1.00					
6.0100	Removal of Door with Jamb	set	6.00					
6.0200	Removal of Window with Jamb	sq.m	39.69					
6.0320	D-1, Steel Door 0.90m x 2.10m on Steel Door Jamb complete with Accessories (Incldg lockset)	set	6.00					
6.0500	PVC Door with Complete Accessories	set	1.00					
6.1200	Aluminum Casement Window	sq.m	39.69					
6.1510	Window Grille (WVG - 1)	set	8.00					
6.1520	Window Grille (WVG - 2)	set	9.00					
6.1530	Window Grille (WVG - 3)	set	3.00					
	Sub-total							
7.0000	Steel Works	kgs	349.11					
7.1000	L 50 x 50 x 5mm	kg	349.11					
7.1100	Steel Plate 1.20m x 2.40m x 6mm thk	pc	0.50					
7.1600	Anchor Bolt with Nuts and Washer, 12mmØ x 50mm x 150mm	pc	16.00					
7.3600	Welding Rod	kg	7.00					
	Sub-total							
8.0000	Roofing Works	sq.m.	193.14					
8.0100	Removal of Roofing Sheets	sq m	193.14					
8.0300	Removal of Flashing	pc	21.00					
8.0400	Removal of Gutter	pc	12.00					
8.0500	Removal of Fascia Board	pc	7.00					
8.0600	G.I. Long-Span Roofing, Corrugated, Pre-Painted, 1220mm x 0.4mm BMT	lm	213.00					
8.0800	G.I. Flashing, Preformed, Pre-Painted, 0.610m x 2.440m x 0.4mm BMT	pc	4.00					
8.1400	Gutter, Pre-Painted, Ordinary, 0.610m x 2.440m x 0.4mm thk	pc	12.00					
8.1000	Teckscrew 2-1/2"	pc	1,931.00					
8.1100	Blind Rivets	pc	160.00					
8.1300	Roof Sealant	L	2.00					
	Sub-total							
9.0000	Ceiling and Carpentry Works	sq.m.	511.32					
	Interior and Exterior Ceiling	sq.m.	315.00					
9.0080	Removal of Purlins	bd.ft	90.72					
9.0100	Removal of Ceiling	sq.m	315.00					
9.1700	Rough Lumber, Sun Dried, Tanguile or Equivalent	bd.ft	1,377.00					
9.0500	Plywood, Marine 1/4" x 4' x 8'	pc	158.00					
4.0400	CWVN, Assorted	kg	25.00					
9.2200	Concrete Nails	kg	10.00					
9.2100	Finishing Nails	kg	9.00					
9.1400	25mm x 25mm x 300mm Wood slats @25mm clear spacing ceiling ventilation (provide stainless steel wire mesh inside)	pc	6.00					
9.1430	Fascia Board, Fiber Cement 12" x 8'	pc	12.00					

	Wall Partition	sq.m.	58.80					
9.0090	Removal of Partition	sq.m	58.80					
9.1700	Rough Lumber, Sun Dried, Tanguile or Equivalent	bd.ft	257.00					
9.0200	Plywood, Ordinary 1/4" x 4' x 8'	pc	41.00					
9.2100	Finishing Nails	kg	3.00					
9.2200	Concrete Nails	kg	3.00					
4.0400	CWN, Assorted	kg	5.00					
	Blackboard	sq.m.	11.52					
9.1700	Rough Lumber, Sun Dried, Tanguile or Equivalent	bd.ft	74.00					
9.2000	Lawanit, 1/4" thk	pc	4.00					
9.2100	Finishing Nails	kg	1.00					
4.0400	CWN, Assorted	kg	2.00					
9.2200	Concrete Nails	kg	1.00					
	Second Floor T & G Flooring	sq.m.	126.00					
	Removal of Existing T&G Flooring	sq.m.	126.00					
4.0400	CWN, Assorted	kg	25.00					
9.1500	Rough Lumber, Sun Dried, Yakal or Equivalent	bd.ft	1,859.76					
9.2100	Finishing Nails	kg	15.00					
9.2300	T&G 3/4" x 4"	bdft	780.64					
	Sub-total							
10.0000	Electrical Works	lot	1.00					
	Roughing-ins							
10.0100	Electrical Conduit uPVC, 15mmØ	pc	35.00					
10.0490	RSC 20mmØ	pc	1.00					
10.0800	Entrance Cap 20mm dia.	pc	1.00					
10.1200	Junction Box, 4" x 4" G.I.	pc	27.00					
10.1300	Utility Box, 2" x 4" G.I.	pc	16.00					
10.1400	Grounding Rod, 2.4m x 16mm dia.	pc	1.00					
	Wires & Fixtures							
10.1600	3.5 mm² THHN Wire, Stranded	m	500.00					
10.2700	Duplex Convenience Outlet, Grounding Type, 20A, 250V	set	16.00					
10.2900	Single Pole Wall Switch in One Switch Plate (10 AMP, 230V)	set	3.00					
10.3200	3 Single Pole Wall Switches 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	2.00					
10.3620	FL 2 x 40W Industrial Type	set	24.00					
10.3610	FL 1 x 40W Industrial Type	set	3.00					
10.3310	Safety Switch 30A 2P	set	1.00					
10.5500	Electrical Tape	pc	7.00					
	Sub-total							
11.0000	Plumbing Works	lot	1.00					
11.0200	Water Closet 1.6gpf with Accessories	set	1.00					
11.0510	Faucet	set	1.00					
11.0610	Lavatory, Including Fittings and Accessories	set	1.00					
11.1000	PP-R Pipe 3/4"Ø x 4.0m	pc	2.00					
11.1500	PP-R Coupling, 3/4"Ø	pc	4.00					
11.2100	PP-R Elbow 90° x 3/4"Ø	pc	4.00					
11.3800	Gate Valve, 3/4"Ø	pc	2.00					
11.4410	S.S. Floor Drain 4" x 4"	set	2.00					
11.4500	Mirror	sq.ft	4.00					
	Water Tank 12 drums with stand Water Tank-accessories	unit	2.00					
	Sub-total							
12.0000	Sanitary Works	lot	1.00					
12.0600	PVC Sanitary Pipe 3"Ø x 3.0m	pc	20.00					
12.0700	PVC Sanitary Pipe 2"Ø x 3.0m	pc	2.00					
12.1000	PVC Sanitary Elbow 90° x 3"Ø	pc	8.00					
12.1100	PVC Sanitary Elbow 90° x 2"Ø	pc	2.00					
12.2700	PVC P-Trap 2"	pc	1.00					
12.3000	PVC Cement	can	5.00					
	Sub-total							
13.0000	Painting Works	sq.m.	794.48					
	Concrete Surfaces	sq.m.	340.25					
13.0100	Neutralizer	gal	5.00					
13.0200	Latex, Flat	gal	14.00					
13.0400	Latex, Semi Gloss	gal	14.00					
13.0300	Masonry Putty	gal	29.00					
13.0500	Acri Color	qrt	4.00					
	Wood Surfaces	sq.m.	454.23					
13.0600	Enamel, Flatwall	gal	23.00					
13.0800	Enamel, Semi Gloss	gal	23.00					
13.0700	Glazing Putty	gal	19.00					
13.0900	Paint Thinner	L	12.00					
	Sub-total							
14.0000	Tile Works	sq.m.	167.70					
	T&B Wall	sq.m.	8.40					
14.0110	Glazed Wall Tiles 20cm x 20cm	pc	210.00					
14.0300	Tile Adhesive 25 kg/bag	bag	2.00					
14.0500	Tile Grout 5 kg/bag	bag	1.00					
	T&B Flooring	sq.m.	4.50					
14.0210	Unglazed Floor Tiles 20cm x 20cm	pc	113.00					
14.0300	Tile Adhesive 25 kg/bag		1.00					
14.0500	Tile Grout 5 kg/bag	bag	1.00					

	First Floor Tiles	sq.m.	154.80				
14.0220	Unglazed Floor Tiles 60cm x 60cm	pc	452.00				
14.0300	Tile Adhesive 25 kg/bag	bag	28.00				
14.0500	Tile Grout 5 kg/bag	bag	12.00				
	Sub-total						
Bagong Lipunan Building (2 Storey - 10 Classrooms)							
1.0000	Earthworks	cu.m.	17.80				
1.0200	Structural Excavation	cu.m	17.80				
1.0400	Gravel Bedding G-1	cu.m	3.15				
	Sub-total						
2.0000	Concreting Works	cu.m.	9.23				
	Drainage Canal / Water Tank Foundation	cu.m.	9.23				
2.0200	Portland Cement	bag	84.00				
2.0400	Crushed Gravel 1"	cu.m	9.23				
2.0500	Washed Sand	cu.m	4.62				
	Sub-total						
3.0000	Rebar Works	lot	1.00				
3.0900	Deformed Round Bars, Grade 33	kg	401.87				
3.1200	G.I. Tie Wire	kg	8.04				
	Sub-total						
5.0000	Masonry Works	sq.m.	37.92				
	Catch Basin Walls Plastering	sq.m.	25.92				
2.0200	Portland Cement	bag	5.00				
2.0500	Washed Sand	cu.m	0.41				
	Extention of Drainage Canal at First Floor along hallway	sq.m.	12.00				
2.0200	Portland Cement	bag	9.00				
2.0500	Washed Sand	cu.m	0.71				
5.0300	CHB 4" thk	pc	150.00				
	Sub-total						
6.0000	Doors and Windows	lot	1.00				
6.0320	D-1, Steel Door 0.90m x 2.10m on Steel Door Jamb complete with Accessories (Inclgd lockset)	set	10.00				
	D-2, Steel C.R. Door 0.70m x 2.1m on Steel Door Jamb with complete Accessories (Inclgd. Lockset)	set	2.00				
6.1200	Aluminum Casement Window	sq.m	91.32				
6.1510	Window Grille (WG - 1)	set	30.00				
6.1520	Window Grille (WG - 2)	set	10.00				
	Sub-total						
7.0000	Steel Works	lot	1.00				
7.1000	L 50 x 50 x 5mm	kg	387.90				
7.1100	Steel Plate 1.20m x 2.40m x 6mm thk	pc	0.50				
7.1600	Anchor Bolt with Nuts and Washer, 12mmØ x 50mm x 150mm	pc	16.00				
7.3600	Welding Rod	kg	8.00				
	Sub-total						
8.0000	Roofing Works	sq.m.	474.32				
8.0100	Removal of Roofing Sheets	sq m	474.32				
8.0200	Removal of Ridge Roll	pc	20.00				
8.0400	Removal of Gutter	pc	40.00				
8.0500	Removal of Fascia Board	pc	36.00				
8.0600	G.I. Long-Span Roofing, Corrugated, Pre-Painted, 1220mm x 0.4mm BMT	lm	532.00				
8.0700	G.I. Ridge Roll, Preformed, Pre-Painted, 0.610m x 2.440m x 0.6mm BMT	pc	21.00				
8.0800	G.I. Flashing, Preformed, Pre-Painted, 0.610m x 2.440m x 0.4mm BMT	pc	47.00				
8.1000	Teckscrew 2-1/2"	pc	4,256.00				
8.1100	Blind Rivets	pc	2,000.00				
8.1300	Roof Sealant	L	5.00				
8.1400	Gutter, Pre-Painted, Ordinary, 0.610m x 2.440m x 0.4mm thk	pc	42.00				
	Sub-total						
9.0000	Ceiling and Carpentry Works	sq.m.	1,117.22				
	Interior Ceiling	sq.m.	528.00				
9.0100	Removal of Ceiling	sq.m	528.00				
9.1700	Rough Lumber, Sun Dried, Tanguile or Equivalent	bd.ft	2,308.00				
9.0500	Plywood, Marine 1/4" x 4' x 8'	pc	184.00				
9.2100	Finishing Nails	kg	11.00				
9.2200	Concrete Nails	kg	4.00				
4.0400	CWN, Assorted	kg	42.00				
	Exterior Ceiling	sq.m.	132.62				
9.1700	Rough Lumber, Sun Dried, Tanguile or Equivalent	bd.ft	580.00				
9.0500	Plywood, Marine 1/4" x 4' x 8'	pc	47.00				
9.2100	Finishing Nails	kg	3.00				
9.2200	Concrete Nails	kg	3.00				
4.0400	CWN, Assorted	kg	11.00				
9.1900	Wood Preservative	L	19.00				
9.1420	Fascia Board, Fiber Cement 10" x 12'	pc	0.00				
9.1400	25mm x 25mm x 300mm Wood slats @25mm clear spacing ceiling ventilation (provide stainless steel wire mesh inside)	pc	10.00				
	Partition Wall	sq.m.	159.00				
9.0090	Removal of Partition	sq.m	159.00				
9.1700	Rough Lumber, Sun Dried, Tanguile or Equivalent	bd.ft	695.00				
9.0200	Plywood, Ordinary 1/4" x 4' x 8'	pc	111.00				
9.2100	Finishing Nails	kg	7.00				
9.2200	Concrete Nails	kg	3.00				
4.0400	CWN, Assorted	kg	13.00				
9.1900	Wood Preservative	L	22.00				

	Backboard	sq.m.	57.60					
9.1700	Rough Lumber, Sun Dried, Tanguile or Equivalent	bd.ft	366.00					
9.2000	Lawanit, 1/4" thk	pc	20.00					
9.2100	Finishing Nails	kg	2.00					
4.0400	CWN, Assorted	kg	7.00					
9.2200	Concrete Nails	kg	2.00					
	Second Floor T&G Flooring	sq.m.	240.00					
9.1700	Rough Lumber, Sun Dried, Tanguile or Equivalent	bd.ft	2,479.68					
9.2300	T&G 3/4" x 4"	bdf	1,968.00					
9.2100	Finishing Nails	kg	10.00					
4.0400	CWN, Assorted	kg	30.00					
	Sub-total							
10.0000	Electrical Works	lot	1.00					
	Roughing-ins							
10.0100	Electrical Conduit uPVC, 15mmØ	pc	85.00					
10.0300	Electrical Conduit uPVC, 32mmØ	pc	1.00					
10.1000	Entrance Cap 32mm 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	40.00					
10.1400	Grounding Rod, 2.4m x 16mm dia.	pc	1.00					
	Wires & Fixtures							
10.1600	3.5 mm² THHN Wire, Stranded	m	1,500.00					
10.1900	30.0 mm² THHN Wire, Stranded	m	10.00					
10.2700	Duplex Convenience Outlet, Grounding Type, 20A, 250V	set	40.00					
10.3100	2 Single Pole Wall Switches in One Switch Plate (10 AMP, 230V)	set	4.00					
10.3200	3 Single Pole Wall Switches in One Switch Plate (10 AMP, 230V)	set	10.00					
10.3620	FL 2 x 40W Industrial Type	set	60.00					
10.3610	FL 1 x 40W Industrial Type	set	14.00					
10.3900	Panel Box, Flush Type, 12 Branches	set	2.00					
10.4100	Circuit Breaker, 20A 2P	set	6.00					
10.4300	Circuit Breaker, 40A 2P	set	6.00					
10.4600	Circuit Breaker, 100A 2P	set	1.00					
10.5500	Electrical Tape	pc	20.00					
	Sub-total							
11.0000	Plumbing Works	lot	1.00					
11.0200	Water Closet 1.6gpf with Accessories	set	6.00					
11.0610	Lavatory, Including Fittings and Accessories	set	2.00					
11.0900	PP-R Pipe 1"Ø x 4.0m	pc	15.00					
11.1100	PP-R Pipe 1/2"Ø x 4.0m	pc	25.00					
11.1500	PP-R Coupling, 3/4"Ø	pc	6.00					
11.2000	PP-R Elbow 90° x 1"Ø	pc	7.00					
11.2200	PP-R Elbow 90° x 1/2"Ø	pc	30.00					
11.2500	PP-R Tee, 1"Ø	pc	10.00					
11.3700	Gate Valve, 1"Ø	pc	2.00					
11.3900	Check Valve, Horizontal, 1"Ø	pc	1.00					
11.4200	Teflon Tape	roll	5.00					
11.4410	S.S. Floor Drain 4" x 4"	set	10.00					
11.4500	Mirror	sq.ft	8.00					
	Water Tank 12 drums with stand Water Tank-complete accessories	unit	2.00					
	Sub-total							
12.0000	Sanitary Works	lot	1.00					
12.0100	Catch Basin	unit	8.00					
12.0110	Three Chamber Septic Vault	unit	1.00					
12.0500	PVC Sanitary Pipe 4"Ø x 3.0m	pc	25.00					
12.0600	PVC Sanitary Pipe 3"Ø x 3.0m	pc	40.00					
12.0700	PVC Sanitary Pipe 2"Ø x 3.0m	pc	15.00					
12.0900	PVC Sanitary Elbow 90° x 4"Ø	pc	20.00					
12.1000	PVC Sanitary Elbow 90° x 3"Ø	pc	36.00					
12.1410	PVC Sanitary Elbow 1/8 x 2"Ø	pc	12.00					
12.1300	PVC Sanitary Elbow 1/8 x 4"Ø	pc	5.00					
12.2000	PVC Sanitary Wye Reducer 4" x 2"	pc	3.00					
12.2600	PVC P-Trap 4"	pc	2.00					
12.2700	PVC P-Trap 2"	pc	2.00					
12.3000	PVC Cement	can	20.00					
	Sub-total							
13.0000	Painting Works	sq.m.	2,263.13					
	Concrete Surface	sq.m.	1,215.90					
13.0100	Neutralizer	gal	35.00					
13.0200	Latex, Flat	gal	35.00					
13.0400	Latex, Semi Gloss	gal	35.00					
13.0300	Masonry Putty	gal	41.00					
13.0500	Acri Color	qrt	11.00					
	Wood Surface	sq.m.	1,032.23					
13.0600	Enamel, Flatwall	gal	23.00					
13.0800	Enamel, Semi Gloss	gal	35.00					
13.0700	Glazing Putty	gal	35.00					
13.0900	Paint Thinner	L	35.00					
	Steel Surface	sq.m.	15.00					
13.0800	Enamel, Semi Gloss	gal	1.00					
13.1210	Primer, Red Oxide	gal	1.00					
	Sub-total							

14.0000	Tile Works	sq.m.	426.96					
	T & B Flooring	sq.m.	9.36					
14.0210	Unglazed Floor Tiles 20cm x 20cm	pc	234.00					
14.0300	Tile Adhesive 25 kg/bag	bag	2.00					
14.0500	Tile Grout 5 kg/bag	bag	1.00					
	First Floor Tile Flooring	sq.m.	240.00					
2.0200	Portland Cement	bag	20.64					
2.0500	Washed Sand	cu.m	4.56					
14.0220	Unglazed Floor Tiles 60cm x 60cm	pc	667.00					
14.0300	Tile Adhesive 25 kg/bag	bag	44.00					
14.0500	Tile Grout 5 kg/bag	bag	18.00					
	Stairs, Landing & Hallway Flooring	sq.m.	177.60					
	Unglazed Floor Tiles 30cm x 30 cm	pc	1,974.00					
14.0300	Tile Adhesive 25 kg/bag	bag	32.00					
14.0500	Tile Grout 5 kg/bag	bag	14.00					
	Sub-total							
	I DIRECT COST							
	II INDIRECT COST _____% of (I)							
	III TAX 5% of (I + II)							
	IV TOTAL CONSTRUCTION COST (I + II + III)							

Prepared by:

CONTRACTOR

(Name of Firm)