

(LETTERHEAD)

PROGRAM OF WORKS
BILL OF QUANTITIES
REPAIR 2019 - CAR - BAGUIO CITY - 008

School	IRISAN NATIONAL HIGH SCHOOL		Date:			
School I.D	305280		Budget Allocation:	PHP 5,116,747.87		
Region	CAR		Eng'g and Administrative Overhead:	PHP 0.00		
Division	BAGUIO CITY		Approved Budget for the Contract:	PHP 5,116,747.87		
Project Title	REPAIR/REHABILITATION OF VARIOUS SCHOOL BUILDINGS - 16 CLASSROOMS		Completion Period	150 calendar days		
			Minimum Required Manpower:			
			Project Engineer	Painter		
			General Foreman	Mason		
			Carpenter	Helpers		
Location	BARANGAY IRISAN ,BAGUIO CITY		Minimum Required Equipment:			
			Various Power Tools			
			Various Hand Tools			
ITEM NO.	Item Description	% of Total	Unit	Quantity	Total Cost	Remarks
	I. DIRECT COST					
	GENERAL REQUIREMENTS		lot	1.00		
BUILDING NO. 3, DEPED BUILDING - 4 CLASSROOMS (7 X 8M)						
4.000	Formworks		lot	1.00		
5.000	Masonry Works		sq.m.	26.24		
6.000	Doors and Windows		lot	1.00		
7.000	Steel Works		lot	1.00		
8.000	Roofing Works		sq.m.	183.08		
9.000	Ceiling and Carpentry Works		sq.m.	148.33		
10.000	Electrical Works		lot	1.00		
12.000	Sanitary Works		lot	1.00		
13.000	Painting Works		sq.m.	1,083.20		
14.000	Tile Works		sq.m.	101.17		
BUILDING NO. 8, DEPED BUILDING - 8 CLASSROOMS (7 X 8M)						
4.000	Formworks		lot	1.00		
5.000	Masonry Works		sq.m.	56.00		
6.000	Doors and Windows		lot	1.00		
7.000	Steel Works		lot	1.00		
8.000	Roofing Works		sq.m.	379.72		
9.000	Ceiling and Carpentry Works		sq.m.	372.37		
10.000	Electrical Works		lot	1.00		
12.000	Sanitary Works		lot	1.00		
13.000	Painting Works		sq.m.	1,869.55		
14.000	Tile Works		sq.m.	209.04		
BUILDING NO. 11, DEPED BUILDING - 4 CLASSROOMS (7 X 8M)						
4.000	Formworks		lot	1.00		
5.000	Masonry Works		sq.m.	22.56		
6.000	Doors and Windows		lot	1.00		
7.000	Steel Works		lot	1.00		

8.000	Roofing Works		sq.m.	164.22		
9.000	Ceiling and Carpentry Works		sq.m.	134.75		
10.000	Electrical Works		lot	1.00		
12.000	Sanitary Works		lot	1.00		
13.000	Painting Works		sq.m.	1,018.07		
14.000	Tile Works		sq.m.	105.19		
	Sub-Total					
	II INDIRECT COST __% of (I-Gen. Reqmts.)					
	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:

CONTRACTOR

(Name of Firm)

(LETTERHEAD)

PROGRAM OF WORKS
DETAILED COST ESTIMATE

PROJECT: **REPAIR/REHABILITATION OF VARIOUS SCHOOL BUILDINGS - 16 CLASSROOMS**
SCHOOL: **IRISAN NATIONAL HIGH SCHOOL**
LOCATION: **BARANGAY IRISAN ,BAGUIO CITY**
OWNER: **DEPARTMENT OF EDUCATION**

ITEM NO.	DESCRIPTION	UNIT	QTY	UNIT COST		TOTAL COST		GRAND TOTAL
				MATERIAL	LABOR	MATERIAL	LABOR	
A	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							
BUILDING NO. 3, DEPED BUILDING - 4 CLASSROOMS (7 X 8M)								
4.000	Formworks	lot	1.00					
4.010	Coco Lumber (Scaffoldings)	bd.ft	246.00					
4.040	CWN, Assorted	kg	24.60					
	Sub-total							
5.000	Masonry Works	sq.m.	26.24					
5.010	Demolition of Masonry Wall	sq.m	10.40					
	Plastering (Class A @ 20mm thick)	sq.m.	26.24					
2.020	Portland Cement	bag	9.00					
2.050	Washed Sand	cu.m	0.68					
	Sub-total							
6.000	Doors and Windows	lot	1.00					
6.010	Removal of Door with Jamb	set	6.00					
6.020	Removal of Window with Jamb	sq.m	22.50					
6.031	D-1, (1.00m x 2.10m) Steel Door Type Hinged Door and Fixed Glass Transom on 50mm x 50mm x 6mm Steel Jamb/ Frame and Barrel bolt- type Knob	set	6.00					
6.130	Sliding Aluminum Window	sq.m	40.80					
	Sub-total							
7.000	Steel Works	lot	1.00					
	Trusses and Purlins	lot	1.00					
7.081	L 75 x 75 x 6mm	kg	478.66					
7.090	L 50 x 50 x 6mm	kg	1,246.38					
7.102	L 40 x 40 x 5mm	kg	99.72					
7.012	LC 150 x 65 x 20 x 2.0mm	kg	1,532.49					
7.360	Welding Rod	kg	38.00					
	Window Grilles	lot	1.00					
7.105	Flat Bar 1" x ¼"	kg	148.06					
7.250	Square Bar 12mm□	pc	102.00					
7.360	Welding Rod	kg	8.00					
13.121	Primer, Red Oxide	gal	2.00					
	Sub-total							

8.000	Roofing Works	sq.m.	183.08					
8.010	Removal of Roofing Sheets	sq m	183.08					
8.020	Removal of Ridge Roll	pc	9.00					
8.030	Removal of Flashing	pc	9.00					
8.050	Removal of Fascia Board	pc	6.00					
8.060	G.I. Long-Span Roofing, Corrugated, Pre-Painted, 1220mm x 0.4mm BMT	lm	184.00					
8.070	G.I. Ridge Roll, Preformed, Pre-Painted, 0.610m x 2.440m x 0.6mm BMT	pc	9.00					
8.080	G.I. Flashing, Preformed, Pre-Painted, 0.610m x 2.440m x 0.4mm BMT	pc	9.00					
	Spanish Gutter, Preformed, Pre-Painted, 0.5m x 2.440m	pc	9.00					
8.100	Teckscrew 2-1/2"	pc	2,196.96					
8.110	Blind Rivets	pc	432.00					
8.130	Roof Sealant	L	10.00					
	Sub-total							
9.000	Ceiling and Carpentry Works	sq.m.	148.33					
	Ceiling	sq.m.	125.29					
9.010	Removal of Ceiling	sq.m	125.29					
9.020	Plywood, Ordinary 1/4" x 4' x 8'	pc	44.00					
9.170	Rough Lumber, Sun Dried	bd.ft	575.59					
9.220	Concrete Nails	kg	7.00					
4.040	CWN, Assorted	kg	10.50					
9.140	25mm x 25mm x 300mm Wood slats @25mm clear spacing ceiling ventilation (provide stainless steel wire mesh inside)	pc	10.00					
9.210	Finishing Nails	kg	7.00					
	Blackboard	sq.m.	23.04					
9.180	S4S Lumber, Kiln Dried, Tanguile	bd.ft	148.00					
9.200	Lawanit, 1/4" thk	pc	8.00					
9.210	Finishing Nails	kg	2.00					
9.220	Concrete Nails	kg	2.00					
4.040	CWN, Assorted	kg	4.00					
	Sub-total							
10.000	Electrical Works	lot	1.00					
	Roughing-ins							
10.010	Electrical Conduit uPVC, 15mmØ	pc	59.00					
10.049	RSC 20mmØ	pc	1.00					
10.080	Entrance Cap 20mm dia.	pc	1.00					
10.120	Junction Box, 4" x 4"	pc	20.00					
10.130	Utility Box, 2" x 4"	pc	26.00					
	Wires & Fixtures							
10.160	3.5 mm² THHN Wire, Stranded	m	1,436.00					
10.270	Duplex Convenience Outlet, Grounding Type, 20A, 250V	set	20.00					
10.310	2 Single Pole Wall Switches in One Switch Plate (10 AMP, 230V)	set	6.00					
10.362	FL 2 x 40W Industrial Type	set	28.00					
10.380	Panel Box, Flush Type, 8 Branches	set	1.00					

10.410	Circuit Breaker, 20A 2P	set	7.00					
10.440	Circuit Breaker, 50A 2P	set	1.00					
10.540	Wall Fan, 60W, 230V, 60Hz	set	10.00					
10.550	Electrical Tape	pc	5.00					
	Sub-total							
12.000	Sanitary Works	lot	1.00					
12.050	PVC Sanitary Pipe 4"Ø x 3.0m	pc	15.00					
12.090	PVC Sanitary Elbow 90° x 4"Ø	pc	12.00					
12.300	PVC Cement	can	2.00					
	Sub-total							
13.000	Painting Works	sq.m.	1,083.20					
	Concrete surfaces	sq.m.	678.05					
13.010	Neutralizer	gal	2.00					
13.020	Latex, Flat	gal	76.00					
13.030	Masonry Putty	gal	20.00					
	Paint Brush	pc	5.00					
	Paint Roller with Pan	set	5.00					
	Sand Paper	pcs	68.00					
	Wood Surfaces	sq.m	317.70					
13.060	Enamel, Flatwall	gal	40.00					
13.070	Glazing Putty	gal	16.00					
13.090	Paint Thinner	L	10.00					
	Paint Brush	pc	3.00					
	Paint Roller with Pan	set	10.00					
	Sand Paper	pcs	32.00					
	Metal Surfaces	sq.m	87.45					
13.060	Enamel, Flatwall	gal	5.00					
13.080	Enamel, Semi Gloss	gal	5.00					
13.090	Paint Thinner	L	3.00					
	Paint Brush	pc	5.00					
	Sand Paper	pcs	9.00					
	Sub-total							
14.000	Tile Works	sq.m.	101.17					
	Concrete Chipping	sq.m.	101.17					
	Unglazed Floor Tiles 0.40 x 0.40m	pcs	633.00					
14.050	Tile Grout 5 kg/bag	bag	8.00					
14.030	Tile Adhesive 25 kg/bag	bag	19.00					
2.020	Portland Cement	bag	26.00					
2.050	Washed Sand	cu.m	5.06					
	Sub-total							
BUILDING NO. 8, DEPED BUILDING - 8 CLASSROOMS (7 X 8M)								
4.000	Formworks	lot	1.00					
4.010	Coco Lumber (Scaffoldings)	bd.ft	600.00					
4.040	CWN, Assorted	kg	60.00					
	Sub-total							
5.000	Masonry Works	sq.m.	56.00					
5.010	Demolition of Masonry Wall	sq.m	18.05					
	Plastering (Class A @ 20mm thick)	sq.m.	56.00					
2.020	Portland Cement	bag	20.00					
2.050	Washed Sand	cu.m	1.46					
	Sub-total							

6.000	Doors and Windows	lot	1.00					
6.010	Removal of Door with Jamb	set	11.00					
6.020	Removal of Window with Jamb	sq.m	48.60					
6.031	D-1, (1.00m x 2.10m) Steel Door Type Hinged Door and Fixed Glass Transom on 50mm x 50mm x 6mm Steel Jamb/ Frame and Barrel bolt- type Knob	set	11.00					
6.130	Sliding Aluminum Window	sq.m	64.80					
	Sub-total							
7.000	Steel Works	lot	1.00					
	Trusses and Purlins	lot	1.00					
7.081	L 75 x 75 x 6mm	kg	992.78					
7.090	L 50 x 50 x 6mm	kg	2,585.08					
7.102	L 40 x 40 x 5mm	kg	206.83					
7.012	LC 150 x 65 x 20 x 2.0mm	kg	3,178.49					
7.360	Welding Rod	kg	40.00					
	Window Grilles	lot	1.00					
7.105	Flat Bar 1" x ¼"	kg	235.55					
7.250	Square Bar 12mm□	pc	162.00					
7.360	Welding Rod	kg	13.00					
13.121	Primer, Red Oxide	gal	4.00					
	Sub-total							
8.000	Roofing Works	sq.m.	379.72					
8.010	Removal of Roofing Sheets	sq m	379.72					
8.020	Removal of Ridge Roll	pc	17.00					
8.030	Removal of Flashing	pc	9.00					
8.050	Removal of Fascia Board	pc	16.00					
8.060	G.I. Long-Span Roofing, Corrugated, Pre-Painted, 1220mm x 0.4mm BMT	lm	380.00					
8.070	G.I. Ridge Roll, Preformed, Pre-Painted, 0.610m x 2.440m x 0.6mm BMT	pc	17.00					
8.080	G.I. Flashing, Preformed, Pre-Painted, 0.610m x 2.440m x 0.4mm BMT	pc	9.00					
	Spanish Gutter, Preformed, Pre-Painted, 0.5m x 2.440m	pc	9.00					
8.100	Teckscrew 2-1/2"	pc	4,556.64					
8.110	Blind Rivets	pc	1,056.00					
8.130	Roof Sealant	L	16.00					
	Sub-total							
9.000	Ceiling and Carpentry Works	sq.m.	372.37					
	Ceiling	sq.m.	332.05					
9.010	Removal of Ceiling	sq.m	332.05					
9.020	Plywood, Ordinary 1/4" x 4' x 8'	pc	115.00					
9.170	Rough Lumber, Sun Dried	bd.ft	1,525.45					
9.220	Concrete Nails	kg	18.90					
4.040	CWN, Assorted	kg	28.00					
9.140	25mm x 25mm x 300mm Wood slats @25mm clear spacing ceiling ventilation (provide stainless steel wire mesh inside)	pc	16.00					
9.210	Finishing Nails	kg	18.90					

	Blackboard	sq.m.	40.32					
9.180	S4S Lumber, Kiln Dried, Tanguile	bd.ft	259.00					
9.200	Lawanit, 1/4" thk	pc	14.00					
9.210	Finishing Nails	kg	3.50					
9.220	Concrete Nails	kg	7.00					
4.040	CWN, Assorted	kg	3.50					
	Sub-total							
10.000	Electrical Works	lot	1.00					
	Roughing-ins							
10.010	Electrical Conduit uPVC, 15mmØ	pc	95.00					
10.049	RSC 20mmØ	pc	1.00					
10.080	Entrance Cap 20mm dia.	pc	1.00					
10.120	Junction Box, 4" x 4"	pc	48.00					
10.130	Utility Box, 2" x 4"	pc	42.00					
	Wires & Fixtures							
10.160	3.5 mm² THHN Wire, Stranded	m	2,297.60					
10.270	Duplex Convenience Outlet, Grounding Type, 20A, 250V	set	32.00					
10.310	2 Single Pole Wall Switches in One Switch Plate (10 AMP, 230V)	set	10.00					
10.362	FL 2 x 40W Industrial Type	set	48.00					
10.380	Panel Box, Flush Type, 8 Branches	set	1.00					
10.410	Circuit Breaker, 20A 2P	set	7.00					
10.450	Circuit Breaker, 70A 2P	set	1.00					
10.540	Wall Fan, 60W, 230V, 60Hz	set	32.00					
10.550	Electrical Tape	pc	10.00					
	Sub-total							
12.000	Sanitary Works							
12.050	PVC Sanitary Pipe 4"Ø x 3.0m	pc	25.00					
12.090	PVC Sanitary Elbow 90° x 4"Ø	pc	30.00					
12.300	PVC Cement	can	4.00					
	Sub-total							
13.000	Painting Works	sq.m.	1,869.55					
	Concrete surfaces	sq.m.	1,105.46					
13.010	Neutralizer	gal	4.00					
13.020	Latex, Flat	gal	123.00					
13.030	Masonry Putty	gal	32.00					
	Paint Brush	pc	7.00					
	Paint Roller with Pan	set	7.00					
	Sand Paper	pcs	111.00					
	Wood Surfaces	sq.m	614.30					
13.060	Enamel, Flatwall	gal	77.00					
13.070	Glazing Putty	gal	31.00					
13.090	Paint Thinner	L	20.00					
	Paint Brush	pc	5.00					
	Paint Roller with Pan	set	18.00					
	Sand Paper	pcs	62.00					
	Metal Surfaces	sq.m	149.79					
13.060	Enamel, Flatwall	gal	8.00					
13.080	Enamel, Semi Gloss	gal	8.00					
13.090	Paint Thinner	L	4.00					
	Paint Brush	pc	9.00					
	Sand Paper	pcs	15.00					
	Sub-total							

14.000	Tile Works	sq.m.	209.04					
	Concrete Chipping	sq.m.	209.04					
	Unglazed Floor Tiles 0.40 x 0.40m	pcs	1,307.00					
14.050	Tile Grout 5 kg/bag	bag	16.00					
14.030	Tile Adhesive 25 kg/bag	bag	38.00					
2.020	Portland Cement	bag	53.00					
2.050	Washed Sand	cu.m	10.45					
	Sub-total							
BUILDING NO. 11, DEPED BUILDING - 4 CLASSROOMS (7 X 8M)								
4.000	Formworks	lot	0.00					
4.010	Coco Lumber (Scaffoldings)	bd.ft	215.00					
4.040	CWN, Assorted	kg	3.87					
	Sub-total							
5.000	Masonry Works	sq.m.	22.56					
5.010	Demolition of Masonry Wall	sq.m	11.35					
	Plastering (Class A @ 20mm thick)	sq.m.	22.56					
2.020	Portland Cement	bag	8.00					
2.050	Washed Sand	cu.m	0.59					
	Sub-total							
6.000	Doors and Windows	lot	1.00					
6.010	Removal of Door with Jamb	set	4.00					
6.020	Removal of Window with Jamb	sq.m	25.20					
6.031	D-1, (1.00m x 2.10m) Steel Door Type Hinged Door and Fixed Glass Transom on 50mm x 50mm x 6mm Steel Jamb/ Frame and Barrel bolt- type Knob	set	6.00					
6.130	Sliding Aluminum Window	sq.m	33.60					
	Sub-total							
7.000	Steel Works	lot	1.00					
	Trusses and Purlins	lot	1.00					
7.081	L 75 x 75 x 6mm	kg	429.35					
7.090	L 50 x 50 x 6mm	kg	1,117.98					
7.102	L 40 x 40 x 5mm	kg	89.45					
7.012	LC 150 x 65 x 20 x 2.0mm	kg	1,374.62					
7.360	Welding Rod	kg	20.00					
	Window Grilles	lot	1.00					
7.105	Flat Bar 1" x ¼"	kg	127.87					
7.250	Square Bar 12mm□	pc	84.00					
7.360	Welding Rod	kg	7.00					
13.121	Primer, Red Oxide	gal	3.00					
	Sub-total							
8.000	Roofing Works	sq.m.	164.22					
8.010	Removal of Roofing Sheets	sq m	164.22					
8.020	Removal of Ridge Roll	pc	8.00					
8.030	Removal of Flashing	pc	9.00					
8.050	Removal of Fascia Board	pc	12.00					
8.060	G.I. Long-Span Roofing, Corrugated, Pre-Painted, 1220mm x 0.4mm BMT	lm	165.00					

8.070	G.I. Ridge Roll, Preformed, Pre-Painted, 0.610m x 2.440m x 0.6mm BMT	pc	8.00					
8.080	G.I. Flashing, Preformed, Pre-Painted, 0.610m x 2.440m x 0.4mm BMT	pc	9.00					
	Spanish Gutter, Preformed, Pre-Painted, 0.5m x 2.440m	pc	8.00					
8.100	Teckscrew 2-1/2"	pc	1,971.00					
8.110	Blind Rivets	pc	600.00					
8.130	Roof Sealant	L	6.00					
	Sub-total							
9.000	Ceiling and Carpentry Works	sq.m.	134.75					
	Ceiling	sq.m.	111.71					
9.010	Removal of Ceiling	sq.m	72.61					
9.020	Plywood, Ordinary 1/4" x 4' x 8'	pc	25.00					
9.170	Rough Lumber, Sun Dried	bd.ft	333.58					
9.220	Concrete Nails	kg	4.55					
4.040	CWN, Assorted	kg	6.50					
9.140	25mm x 25mm x 300mm Wood slats @25mm clear spacing ceiling ventilation (provide stainless steel wire mesh inside)	pc	8.00					
9.210	Finishing Nails	kg	4.55					
	Blackboard	sq.m.	23.04					
9.180	S4S Lumber, Kiln Dried, Tanguile	bd.ft	148.00					
9.200	Lawanit, 1/4" thk	pc	8.00					
9.210	Finishing Nails	kg	2.00					
9.220	Concrete Nails	kg	2.00					
4.040	CWN, Assorted	kg	4.00					
	Sub-total							
10.000	Electrical Works	lot	1.00					
	Roughing-ins							
10.010	Electrical Conduit uPVC, 15mmØ	pc	48.00					
10.049	RSC 20mmØ	pc	1.00					
10.080	Entrance Cap 20mm dia.	pc	1.00					
10.120	Junction Box, 4" x 4"	pc	24.00					
10.130	Utility Box, 2" x 4"	pc	20.00					
	Wires & Fixtures							
10.160	3.5 mm² THHN Wire, Stranded	m	1,148.80					
10.270	Duplex Convenience Outlet, Grounding Type, 20A, 250V	set	16.00					
10.310	2 Single Pole Wall Switches in One Switch Plate (10 AMP, 230V)	set	4.00					
10.362	FL 2 x 40W Industrial Type	set	24.00					
10.380	Panel Box, Flush Type, 8 Branches	set	1.00					
10.410	Circuit Breaker, 20A 2P	set	6.00					
10.440	Circuit Breaker, 50A 2P	set	1.00					
10.540	Wall Fan, 60W, 230V, 60Hz	set	8.00					
10.550	Electrical Tape	pc	5.00					
	Sub-total							
12.000	Sanitary Works							
12.050	PVC Sanitary Pipe 4"Ø x 3.0m	pc	12.00					
12.090	PVC Sanitary Elbow 90° x 4"Ø	pc	10.00					
12.300	PVC Cement	can	2.00					
	Sub-total							

13.000	Painting Works	sq.m.	1,018.07					
	Concrete surfaces	sq.m.	660.35					
13.010	Neutralizer	gal	2.00					
13.020	Latex, Flat	gal	74.00					
13.030	Masonry Putty	gal	19.00					
	Paint Brush	pc	5.00					
	Paint Roller with Pan	set	5.00					
	Sand Paper	pcs	67.00					
	Wood Surfaces	sq.m	277.50					
13.060	Enamel, Flatwall	gal	35.00					
13.070	Glazing Putty	gal	14.00					
13.090	Paint Thinner	L	9.00					
	Paint Brush	pc	2.00					
	Paint Roller with Pan	set	8.00					
	Sand Paper	pcs	28.00					
	Metal Surfaces	sq.m	80.22					
13.060	Enamel, Flatwall	gal	5.00					
13.080	Enamel, Semi Gloss	gal	5.00					
13.090	Paint Thinner	L	3.00					
	Paint Brush	pc	5.00					
	Sand Paper	pcs	9.00					
	Sub-total							
14.000	Tile Works	sq.m.	105.19					
	Concrete Chipping	sq.m.	105.19					
	Unglazed Floor Tiles 0.40 x 0.40m	pcs	658.00					
14.050	Tile Grout 5 kg/bag	bag	8.00					
14.030	Tile Adhesive 25 kg/bag	bag	19.00					
2.020	Portland Cement	bag	27.00					
2.050	Washed Sand	cu.m	5.26					
	Sub-total							
I.	DIRECT COST							
II.	INDIRECT COST __% of (I-Gen. Requirements)							
III.	TAX 5% of (I + II)							
IV.	TOTAL CONSTRUCTION COST (I + II + III)							

Prepared:

CONTRACTOR
(Name of Firm)