

(CONTRACTOR'S LETTERHEAD)

PROGRAM OF WORKS **BILL OF QUANTITIES**

REPAIR 2020 - CAR - Baguio City - 012

School	: J.P. RIZAL NATIONAL HIGH SCHOOL	Date:	
School I.D	: 305276	Budget Allocation:	PHP 1,504,705.68
Region	: CAR	Eng'g and Administrative Overhead:	PHP 0.00
Division	: BAGUIO CITY	Approved Budget for the Contract:	PHP 1,504,705.68
Project Title		Completion Period	60
PROPOSED CONSTRUCTION OF COMFORT ROOMS (6 seater)		Minimum Required Manpower:	
		General Foreman	Mason
		Carpenter	Helpers
		Painter	
Location		Minimum Required Equipment:	
Gibraltar, Baguio City		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		
	Construction of Comfort Room (6 seats)					
1.000	Earthworks		lot	1.00		
2.000	Concreting Works		cu.m	22.00		
3.000	Rebar Works		kg	3,127.00		
4.000	Formworks		sq.m	11.00		
5.000	Masonry Works		lot	1.00		
7.000	Steel Works		lot	1.00		
8.000	Roofing Works		sq.m	33.00		
10.000	Electrical Works		lot	1.00		
11.000	Plumbing Works		lot	1.00		
12.000	Sanitary Works		lot	1.00		
6.000	Doors and Windows		set	32.00		
13.000	Painting Works		LOT	1.00		
14.000	Tile Works		sq.m	86.00		
	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)						

Prepared:

Contractor/Representative

PROGRAM OF WORKS

DETAILED COST ESTIMATE

PROJECT: **PROPOSED CONSTRUCTION OF COMFORT ROOMS (6 seater)**
 SCHOOL: : J.P. RIZAL NATIONAL HIGH SCHOOL
 LOCATION: Gibraltar, 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	lot	1.00					
	Safety and Health	lot	1.00					
	Project Billboard (with frame)	lot	1.00					
	Hauling of materials and Haul out of excess excavated materials	lot	1.00					
	Sub-total							
	Construction of Comfort Room							
1.000	Earthworks	lot	1.00					
1.010	Clearing and Grubbing	sq.m	25.00					
1.020	Structural Excavation	cu.m	8.00					
1.030	Backfilling and Compaction	cu.m	7.00					
1.040	Gravel Bedding G-1	cu.m	4.00					
	Sub-total							
2.000	Concreting Works	cu.m	22.00					
2.020	Portland Cement	bag	198.00					
2.030	Crushed Gravel 3/4"	cu.m	22.00					
2.050	Washed Sand	cu.m	11.00					
	Sub-total							
3.000	Rebar Works	kg	3,127.00					
3.050	Deformed Round Bars, Grade 40	kg	3,127.00					
3.120	G.I. Tie Wire	kg	50.00					
	Sub-total							
4.000	Formworks	sq.m	11.00					
4.010	Lumber	bd.ft	1,500.00					
4.020	Plywood Ordinary, 1/4" x 4' x 8'	pc	20.00					
4.040	CWN, Assorted	kg	55.00					
	Sub-total							
5.000	Masonry Works	lot	1.00					
	Masonry Wall 4" Thk.							
5.030	CHB 4" thk	pc	638.00					
2.020	Portland Cement	bag	17.00					
2.050	Washed Sand	cu.m	3.00					
5.040	10mm x 6m RSB	kg	68.00					

3.120	G.I. Tie Wire	kg	2.00					
	Plastering							
2.020	Portland Cement	bag	34.00					
2.050	Washed Sand	cu.m	3.00					
	Sub-total							
7.000	Steel Works	lot	1.00					
	Railings							
7.261	G.I. Pipe 1-½"Ø Sch. 40	kg	9.00					
7.260	G.I. Pipe 2"Ø Sch.40	kg	8.00					
7.360	Welding Rod	pc	4.00					
	Window Grilles/Steel Grating							
7.250	Square Bar 12mm□	pc	28.00					
7.105	Flat Bar 1" x ¼"	kg	12.00					
7.360	Welding Rod	kg	8.00					
	Sub-total							
8.000	Ceiling and Carpentry Works	sq.m.	33.00					
	Interior Ceiling							
7.102	L 40 x 40 x 5mm	kg	100.00					
	6mm Dia. Bolts with Nuts	pcs	36.00					
	1 1/2 inches Lag Screw with Expansion Shield Galvanized TGC Lagscrew with Shield Expansion Anchor Bolt for Concrete Hallow Wall Anchor 4mm	pcs	36.00					
9.080	Metal Carrying Channel (12mm x 38mm x 5m x 0.8mm thk	pc	12.00					
9.090	Fiber Cement Ceiling Board (4.5mm thk)	pc	13.00					
9.100	Metal Double Furring Channel (19mm x 50mm x 3m x 0.5mm thk	pc	38.00					
9.110	Wall Angle 1" x 1" x 10'	pc	8.00					
9.120	Preformed Wire Clip	pc	198.00					
9.130	Rod Suspension Hanger with Adjustment Spring	pc	33.00					
	1" Metal Screw	pc	132.00					
8.110	Blind Rivets	pc	462.00					
	Sub-total							
10.000	Electrical Works	lot	1.00					
	Conduit, Boxes, and Fittings							
10.020	Electrical Conduit uPVC, 20mmØ	pc	4.00					
	20mmØ PVC Adapter	pc	8.00					
	20mmØ locknut and bushing	pc	50.00					

	20mmØ connector	pc	5.00					
10.120	Junction Box, 4" x 4"	pc	3.00					
10.130	Utility Box, 2" x 4"	pc	6.00					
	Wires & Wiring Devices							
10.160	3.5 mm² THHN Wire, Stranded	m	36.00					
10.290	Single Pole Wall Switch in One Switch Plate (10 AMP, 230V)	set	1.00					
10.310	2 Single Pole Wall Switches in One Switch Plate (10 AMP,	set	2.00					
10.550	Electrical Tape	pc	5.00					
	Lighting Fixtures							
10.360	1 -18W, 230V, 60Hz AC, Compact Fluorescent Lighting Fixture with Medium Base	set	8.00					
	Sub-total							
11.000	Plumbing Works	lot	1.00					
	Plumbing Fixtures							
11.010	Water Closet Flange	sets	6.00					
11.020	Water Closet 1.6gpf with	sets	6.00					
11.441	S.S. Floor Drain 4" x 4"	set	12.00					
11.450	Mirror	sq.ft	6.00					
11.430	Tissue Holder	pc	6.00					
11.420	Teflon Tape	roll	6.00					
11.030	Urinal 0.8gpf	sets	2.00					
11.051	1/2" x 4" Stainless Pull Up/Down Faucet	set	6.00					
	Phenolic resin privacy urinal modesty panels partitions complete with accessories	set	2.00					
	Wall mounted stainless shower faucet with control valve	set	6.00					
	13 drums Stainless Water Tank (mirror) with stand	set	2.00					
	Float Valve Big	set	1.00					
	Waterline Works							
11.380	Gate Valve, 3/4"Ø	pc	1.00					
11.110	PP-R Pipe 1/2"Ø x 4.0m	pc	10.00					
11.160	PP-R Coupling, 1/2"Ø	pc	6.00					
11.220	PP-R Elbow 90° x 1/2"Ø	pc	12.00					
11.270	PP-R Tee, 1/2"Ø	pc	12.00					
11.410	Check Valve, Horizontal, 1/2"Ø	pc	1.00					
	PP-R Threaded Adapter	pc	18.00					
	Sub-total							
12.000	Sanitary Works	lot	1.00					
	Sewer Line Works							
12.050	PVC Sanitary Pipe 4"Ø x 3.0m	pc	6.00					
12.070	PVC Sanitary Pipe 2"Ø x 3.0m	pc	10.00					
12.090	PVC Sanitary Elbow 90° x 4"Ø	pc	4.00					
12.110	PVC Sanitary Elbow 90° x 2"Ø	pc	4.00					

12.160	PVC Sanitary Wye 4" x 4"	pc	2.00					
12.200	PVC Sanitary Wye Reducer 4" x 2"	pc	6.00					
12.180	PVC Sanitary Wye 2" x 2"	pc	10.00					
12.220	PVC Sanitary Tee 2" x 2"	pc	10.00					
12.240	Brass Cleanout 4" x 4"	pc	2.00					
12.250	Brass Cleanout 2" x 2"	pc	4.00					
11.270	PP-R Tee, 1/2"Ø	pc	10.00					
11.300	PP-R End Cap, 1-1/4"Ø	pc	5.00					
12.300	PVC Cement	set	5.00					
Three Chamber Septic Vault								
1.020	Structural Excavation	cu.m	6.75					
1.040	Gravel Bedding G-1	cu.m	2.00					
2.020	Portland Cement	bag	39.00					
2.030	Crushed Gravel 3/4"	cu.m	1.50					
2.050	Washed Sand	cu.m	0.75					
3.090	Deformed Round Bars, Grade	kg	158.53					
3.120	G.I. Tie Wire	kg	2.00					
5.020	CHB 6" thk	pc	303.00					
4.010	lumber	bd.ft	33.33					
4.020	Plywood Ordinary, 1/4" x 4' x 8'	pc	2.00					
Plastering (inner side)		sq.m.	19.52					
2.020	Portland Cement	bag	7.00					
2.050	Washed Sand	cu.m	0.50					
15.010	Waterproofing, Cementitious	gal	2.00					
Sub-total								
6.000	Doors and Windows	set	32.00					
	D-1, (0.90m x 2.10m) Steel Door Type Hinged Door on Steel Jamb/ Frame and Barrel bolt- type Knob	set	2.00					
	BD1 (1.4m x 0.60m)Aluminum Door with jamb and complete accessories	sq.m.	5.04					
	Awning Type Analoc Window with 1/4" clear glass	sq.m.	3.24					
Sub-total								
13.000	Painting Works	LOT	1.00					
Concrete Surfaces								
13.010	Neutralizer	gal	6.00					
13.020	Latex, Flat	gal	10.00					
13.040	Latex, Semi Gloss	gal	20.00					
13.030	Masonry Putty	gal	12.00					
	Roller Brush with Pan	set	6.00					
	Paint Brush	pc	4.00					
	Sand paper	PC	150.00					
Wood Surfaces (FiCem Ceiling)								
13.070	Glazing Putty	gal	6.00					
13.060	Enamel, Flatwall	gal	6.00					
13.080	Enamel, Semi Gloss	gal	12.00					
13.090	Paint Thinner	L	4.00					
	Roller Brush with Pan	set	4.00					

	Paint Brush	pc	2.00				
	Sand paper	PC	100.00				
	Steel Surfaces (Primer and Final Coating)						
13.080	Enamel, Semi Gloss	gal	9.00				
13.090	Paint Thinner	L	7.00				
13.121	Primer, Red Oxide	gal	6.00				
	Paint Brush	pc	3.00				
	Sand paper	pc	75.00				
	Sub-total						
14.000	Tile Works	sq.m	86.00				
	Handwashing	sq.m.	5.680				
14.022	Granite Tiles 60cm x 60cm	pc	16.00				
2.020	Portland Cement	bag	2.00				
14.050	Tile Grout 5 kg/bag	bag	1.00				
14.030	Tile Adhesive 25 kg/bag	bag	2.00				
	Wall						
14.010	Ceramic Glazed Tile	sq.m	73.00				
2.020	Portland Cement	bag	23.00				
2.050	Washed Sand	cu.m	2.00				
14.050	Tile Grout 5 kg/bag	bag	9.00				
14.030	Tile Adhesive 25 kg/bag	bag	10.00				
	Flooring						
14.020	Ceramic Unglazed Tile	sq.m	17.00				
2.020	Portland Cement	bag	6.00				
2.050	Washed Sand	cu.m	1.00				
14.050	Tile Grout 5 kg/bag	bag	2.00				
14.030	Tile Adhesive 25 kg/bag	bag	2.00				
	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/Representative