



Department of Science and Technology  
 Philippine Science High School  
 Central Mindanao Campus  
 Nangka, Balo-i, Lanao del Norte

## UPGRADING OF PERIMETER FENCE AND GUARD HOUSE

### BILL OF QUANTITIES - COST ESTIMATES

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL AMOUNT (Php)
<b>1.0</b>	<b>GENERAL REQUIREMENTS</b>				
a	Mobilization/Temp. Facilities	1	lot		
b	Safety and Health	1	lot		
				<b>Total 1.0</b>	
<b>2.0</b>	<b>CIVIL , ARCHITECTURAL WORKS Fronting Highway, L=231m ; Span= 68</b>				
a	Removal of existing steel angle bars / grilles; to include labor, consumables,/ demolition. Chipping, etc.	39.0	Span		
b	Plain Cement plaster finishing, to include all labor, materials, consumables, tools, eqpt. , etc.	495.0	sqm		
c	Supply and lay/file of CHB, 4" . To include labor, materials such as CHB, cement, sand, forms, consumables, tools etc.	247.5	sqm		
d	R.Concrete, 3000 psi, including labor, materials, embedments, excavation, backfilling, formworks, etc.	24.8	cum		
e	Steel Bars, Def., Assorted, including labor, materials, consumables, etc.	3,515.4	kgs		
f	Tubular Steel, 2" x 4" x 0.80mm , includes supply and installation, painting with Epoxy Paint, etc.	231.0	pcs		
g	Angle bar Framing, 1"x1"x1/4 , to include welding, installation, painting with Epoxy paint, etc	44.0	pcs		
h	Repair Steel Gate No. 2, to include welding, repair of hinges, rollers, locks, etc. and removal of existing paint and repainting with Epoxy paint	1.0	lot		

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL AMOUNT (Php)
i	Steel Gate No. 3 (New) ; Supply of labor, materials, tools, equipment, consumables, etc . Per drawing and specifications. To include attachment to existing concrete columns.	1.0	lot		
j	Repair Steel Gate No. 1, to include welding, repair of hinges, rollers, locks, etc. and removal of existing paint and repainting with Epoxy paint	1.0	lot		
k	Fabrication and installation of Bill Board Steel Frame per drawing and specifications	1.0	lot		
				<b>Total 2.0</b>	
<b>3.0</b>	<b>CIVIL , ARCHITECTURAL WORKS , South Side, L=316m ; Span= 93</b>				
a	R.Concrete, 3000 psi, including labor, materials, embedments, excavation, backfilling, formworks, tools, equipment, etc.	71.3	cum		
b	Supply and Install all Steel Bars, Def., Assorted, including labor, materials, consumables, tools, etc.	12,622.0	kgs		
c	Supply and lay/file of CHB, 4" . To include labor, materials such as CHB, cement, sand, forms, consumables, tools etc.	334.8	sqm		
d	Plain Cement plaster finishing, to include all labor, materials, consumables, tools, eqpt. , etc.	669.6	sqm		
e	Labor	1.0	lot		
				<b>Total 3.0</b>	
<b>4.0</b>	<b>CIVIL , ARCHITECTURAL WORKS , West Side, Length = 135 + 181 m ; Span = 39 + 60</b>				
a	R.Concrete, 3000 psi, including labor, materials, embedments, excavation, backfilling, formworks, tools, equipment, etc.	75.9	cum		
b	Supply and Install all Steel Bars, Def., Assorted, including labor, materials, consumables, tools, etc.	13,843.4	kgs		
c	Supply and lay/file of CHB, 4" . To include labor, materials such as CHB, cement, sand, forms, consumables, tools etc.	367.2	sqm		
d	Plain Cement plaster finishing, to include all labor, materials, consumables, tools, eqpt. , etc.	734.4	sqm		
e	Labor	1.0	lot		
				<b>Total 4.0</b>	

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL AMOUNT (Php)
<b>5.0</b>	<b>MAIN GATE GUARD HOUSE, LOUNGING AREA</b>				
<b>A</b>	<b>CIVIL / CONCRETE / MASONRY WORKS</b>				
1	Excavation Works	20	cu.m		
2	Backfilling Works	30	cu.m		
3	Demolition Works	1	lot		
4	Cement	400	bags		
5	Gravel, 3/4"	20	cu.m		
6	Sand	20	cu.m		
7	CHB , 4"	700	pcs		
8	CHB , 6"	485	pcs		
9	Tiles, 0.60m x 0.60m	350	pcs		
10	Steel Bars, Def., Assorted	1536	kgs		
11	Consumables, tie wires, nails, etc.	1	lot		
12	Canyon Stone	10	sqm		
13	Labor	1	lot		
<b>B</b>	<b>ARCHITECTURAL / CARPENTRY WORKS</b>				
1	Lumber, 2 " X 2" X 10'	200	pcs		
2	Plywood , 1/4 "	10	pcs		
3	Assorted Nails	25	kls		
4	HARDILITE	65	pcs		
5	METAL FURRING	150	pcs		
6	Consumables, etc	1	lot		
7	FLUSH DOOR , Complete with Jambs and Hardwares	1	sets		
8	PANEL DOOR, Complete with Jambs and Hardwares	2	sets		
9	PVC DOOR , Complete with Jambs and Hardwares	2	sets		
10	SUN BREAKER	18	sets		
11	STAINLESS RAILINGS	39	lm		
12	Labor	1	lot		
<b>C</b>	<b>ELECTRICAL MATERIALS</b>				
1	Bulb, Led, GE, 10 W , with socket	24	pcs		
2	Switch , 3-gang	1	pcs		
3	Switch, Single pole	3	pcs		
4	Thumbler Switch,	2	pcs		
5	Convenience outlet, 2-gang	4	pcs		
6	Electrical Wires, Assorted	1	lot		
7	Flexible Conduit, 1/2" dia.	150	meters		
8	Panel Board, 15-branches	1	sets		
9	Consumables, etc.	1	lot		
10	Labor	1	lot		
<b>D</b>	<b>PLUMBING MATERIALS</b>				
1	Watercloset, with complete accessories	2	sets		

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL AMOUNT (Php)
2	Lavatory, with complete accessories	2	sets		
3	URINAL, with complete accessories	1	sets		
4	PVC pipes, fittings, consumables, etc.	1	lot		
5	Labor	1	lot		
<b>E</b>	<b>PAINTING WORKS</b>				
1	Paint, ENAMEL ( GLOSS WHITE)	10	GALS		
2	Paint, FLAT WALL LATEX (SEMI GLOSS)- WHITE	20	gals		
3	Paint, Metal Primer	4	GALS		
4	TINTING COLOR ( OIL), assorted	15	QUART		
5	Consumables, etc.	1	lot		
6	SKIM COAT	20	BAGS		
7	Labor	1	lot		
<b>F</b>	<b>ROOFING WORKS</b>				
1	Roofing Sheet, Rib-type, Colored, 0.80mm , including accessories	200	LM		
2	Fascia Panel, 2.4 m	27	PCS		
3	Gutter, 12" x 2.4 m	27	PCS		
4	Jalou Plus Window	8	PANELS		
5	Flat Bar, 1" x 1/8"	10	pcs		
6	Angle Bar, 1" x1" x 1/8"	20	pcs		
7	Tubular Steel, Rafter, 0.05 X 0.175 X 1.5mm	10	PCS		
8	Purlins, 0.80 mm X 0.05 X 0.75, C-PURLIN	60	PCS		
9	Consumables	1	lot		
10	Labor	1	lot		
				<b>Total 5.0</b>	
<b>6.0</b>	<b>GUARD QUARTERS</b>				
<b>A</b>	<b>CIVIL / CONCRETE / MASONRY WORKS</b>				
1	Excavation Works	10	cum		
2	Backfilling Works	8	cum		
3	Cement	400	bags		
4	Gravel, 3/ 4" dia.	45	cum		
5	Sand	24	cum		
6	CHB , 4 "	2000	pcs		
7	CHB , 6 "	600	pcs		
8	Tiles, 0.60m x 0.60 m , supply and install including all consumables, etc	300	pcs		
9	Steel Bars, Def. Assorted	1317	kgs		
10	CANYON STONE	9	sqm		
11	Labor	1	lot		
<b>B</b>	<b>CARPENTRY WORKS</b>				
1	Lumber, 2 " X 2" X 10'	200	pcs		

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL AMOUNT (Php)
2	Plywood, 1/4 " ordinary	10	pcs		
3	Plywood, Marine, 1/2"	4	pcs		
4	C.W. Nails, assorted	45	pcs		
5	HARDILITE	30	pcs		
6	METAL FURRING	80	pcs		
7	FLUSH DOOR, icluding Jambs, hardwares	2	sets		
8	PANEL DOOR, icluding Jambs, hardwares	2	sets		
9	PVC DOOR, icluding Jambs, hardwares, e	2	sets		
10	PLYBOARD, 3/4"	10	pcs		
11	Cabinet Hardwares, etc.	1	lot		
12	Labor	1	lot		
<b>C</b>	<b>ELECTRICAL WORKS</b>				
1	Bulb, LED, , GE	20	pcs		
2	Bulb Socket	20	pcs		
3	SWITCH, 3-gang	1	pcs		
4	Swith, Single pole	2	pcs		
5	Switch, 2 THUMBLER	4	pcs		
6	Convenience Outlet, 2-gang	9	pcs		
7	Electrical Wire, 3.5 MM2 THW	500	meters		
8	Electrical Wire 5.5 MM2 THW	500	meters		
9	Flexible Conduit, 1/2" dia.	250	meters		
10	Panel Board, 15-branches	1	set		
11	Junction boxes, tapes, Consumables, etc.	10	lot		
12	Labor	1	lot		
<b>D</b>	<b>PLUMBING WORKS</b>				
1	Watercloset	1	sets		
2	Lavatory	1	sets		
3	Kitchen Sink	1	sets		
4	Urinal	1	sets		
5	PVC, 4" dia x 3 mtrs PVC	6	pcs		
6	PVC. 2" dia. X 3 mtrs PVC	40	pcs		
7	Eslon Bue upvc, 1/2" DIA.	20	PCS		
8	Fittings, Faucets, consubales, etc.	1	lot		
9	Labor	1	lot		
<b>E</b>	<b>PAINTING WORKS</b>				
1	Paint, ENAMEL ( GLOSS WHITE)	10	GALS		
2	Paint, FLAT WALL LATEX (SEMI GLOSS)-W	50	gals		
3	Paint, Primer	4	GALS		
4	TINTING COLOR ( OIL), assorted	30	QUART		
5	Consumables, brush, etc.	1	lot		
6	Skm Coat	30	bags		
7	Labor	1	lot		
<b>F</b>	<b>STEEL WORKS, ROOFING, ETC.</b>				

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL AMOUNT (Php)
1	Roofing, RIB type, 0.8mm thk	90	lm		
2	Roof GUTTER, colored, 12"	6	PCS		
3	Fascia Sheet, colored,	10	PCS		
4	Jalou Plus	19	sets		
5	Tubular Stee, Rafter, 0.05 X 0.175 X 1.5 MM	10	PCS		
6	Steel C-Purlins, .8 MM THK X 0.05 X 0.75	30	PCS		
7	Flat Bar, 1" x 1/8"	5	pcs		
8	Angle Bars, 1" x1" x 1/8"	5	pcs		
9	WELDING ROD	3	boxes		
10	RIVET AND TEXSCREW	1	lot		
11	Consumables, paints, etc.	1	lot		
12	Labor	1	lot		
				<b>Total 6.0</b>	
<b>7.0</b>	<b>GUARD POST (6-units)</b>				
1	Earthworks / Fill	1	lot		
2	Cement	48	bags		
3	Gravel, 3/ 4" dia.	6	cu.m		
4	Sand	6	cu.m		
5	G.I. PIPE, 2" dia. , SCH. 40	12	pcs		
6	Steel Bars, 12 mm dia.	12	pcs		
7	Steel Bars, 10 mm dia.	6	pcs		
8	Lumber, 2 " X 2" X 10'	18	pcs		
9	Plywood, 1/4"	6	pcs		
10	Nails, Assorted, etc.	1	lot		
11	Roofing Sheet, colored, 0.80mm	60	lm		
12	Tubular Steel, 0.05 X 0.175 X 1.5 mm	24	pcs		
13	Steel Purlins ,.8 mm THK X 0.05 X 0.75	12	pcs		
14	Consumables	1	lot		
15	Paint, consumables, etc.	1	lot		
16	Louvers , Metal, colored	42	sets		
17	Labor	6	units		
				<b>Total 7.0</b>	
<b>8.0</b>	<b>PERIMETER LIGHTING</b>				
a	Lighting Fixture, enclosed, Led, 20w, water proof	95	sets		
b	Breaker, 20A, Waterproof	15	sets		
c	Electrical Wire, 5.5mm2 THW	1800	meters		
d	HDEP pipe. 3/4"	900	meters		
e	Consumables, Jboxe, etc.	1	lot		
f	Labor	1	lot		
				<b>Total 8.0</b>	

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL AMOUNT (Php)
S U M M A R Y					
1.0	GENERAL REQUIREMENTS				
2.0	CIVIL , ARCHITECTURAL WORKS Fronting Highway, L=231m ; Span= 68				
3.0	CIVIL , ARCHITECTURAL WORKS , South Side, L=316m ; Span= 93				
4.0	CIVIL , ARCHITECTURAL WORKS , West Side, Length = 135 + 181 m ; Span = 39 + 60				
5.0	MAIN GATE GUARD HOUSE, LOUNGING AREA				
6.0	GUARD QUARTERS				
7.0	GUARD POST (6-units)				
8.0	PERIMETER LIGHTING				
				Grand Total	

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**CONTRACTOR**

\_\_\_\_\_  
**Authorized Signatory**  
**Over Printed Name**

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**Date**