



Republic of the Philippines  
 Department of the Interior and Local Government  
**BUREAU OF FIRE PROTECTION**  
**CORDILLERA ADMINISTRATIVE REGION**  
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PROJECT : **CONSTRUCTION OF PILAR FIRE STATION WITH MEZZANINE**  
 OWNER : **BUREAU OF FIRE PROTECTION**  
 LOCATION : **PILAR, ABRA**  
 AMOUNT : **Php 7,368,421.05**  
 DATE : **March 12, 2022**

## BILL OF QUANTITIES

DESCRIPTION	QTY	UNIT	UNIT COST	AMOUNT
<b>A. GENERAL REQUIREMENTS</b>	1	lot		
1. Mobilization/Demobilization	1	lot		
2. Building permit fees/ Miscellaneous fee	1	lot		
3. Equipment Rentals	1	lot		
4. Electrical Main line connection	1	lot		
5. Water Main line connection	1	lot		
6. Personal Protective Equipment, Medicine and Signage	1	lot		
7. Project Billboard	1	lot		

Direct Cost:

VAT: 5%

Item Cost:

Unit Cost:

Adjusted Item Cost:

<b>B. EXCAVATION WORKS</b>	<b>233.10</b>	<b>cu.m.</b>		
1. Structural excavation with backfill	224.70	cu.m.	250.00	
2. Septic Tank	8.40	cu.m.	250.00	

Direct Cost:

Mark Up:

VAT: 5%

Item Cost:

Unit Cost:

Adjusted Item Cost:

<b>C. SITE DEVELOPMENT</b>	<b>1.00</b>	<b>lot</b>		
1. Flagpole Construction	1.00	lot	5,000.00	
2. Planting/Ground cover/Vegetation	1.00	lot	1,500.00	

Direct Cost:

Labor:

Mark Up:

VAT: 5%

Item Cost:

Unit Cost:

Adjusted Item Cost:

<b>D. FORM WORKS AND SCAFFOLDING</b>	<b>188.5</b>	<b>sq.m</b>		
1. Phenolic Board, 1/2" x 4' x 8'	115	pcs		
2. 2" x 3" x 10' Good Lumber	1000	bd.ft		
3. 2" x 3" x 12' Good Lumber	1200	bd.ft		
4. Steel Forms Rental	1	lot		
5. C.W Nail #4	3	box		
6. C.W Nail #3	3	box		
7. C.W Nail #1 1/2	12	kgs		

**Direct Cost:**  
**Labor:**  
**Mark Up:**  
**VAT:** 5%  
**Item Cost:**  
**Unit Cost:**  
**Adjusted Item Cost:**

<b>E. CONCRETE WORKS:</b>	<b>161.97</b>	<b>cu.m</b>
<b>Footing</b>	<b>26.96</b>	<b>cu.m</b>
<b>Grade Beam</b>	<b>15.96</b>	<b>cu.m</b>
<b>Column</b>	<b>16.87</b>	<b>cu.m</b>
<b>Mezzanine Beams</b>	<b>11.10</b>	<b>cu.m</b>
<b>Roof Beams</b>	<b>16.34</b>	<b>cu.m</b>
<b>Slabs</b>	<b>49.46</b>	<b>cu.m</b>
<b>Stairs, Stair Case Roofing Column &amp; Beams, Canopy, Kitchen Table</b>	<b>5.42</b>	<b>cu.m</b>
<b>Pathwalk/Concrete paving/Driveway/Canal Concrete Cover/Catch Basin</b>	<b>19.86</b>	<b>cu.m</b>
1. Portland Cement	1458	bags
2. Crushed Sand	81	cu.m
3. Crushed Gravel	130	cu.m

**Direct Cost:**  
**Labor:**  
**Mark Up:**  
**VAT:** 5%  
**Item Cost:**  
**Unit Cost:**  
**Adjusted Item Cost:**

<b>F. REINFORCING STEEL BAR WORKS:</b>	<b>20860.03</b>	<b>kgs</b>
<b>Footing</b>	<b>1507.32</b>	<b>kgs</b>
1. 16 mm $\phi$ x 6M Steel Bars	132.72	kgs
2. 16 mm $\phi$ x 7.5M Steel Bars	1374.6	kgs
<b>Grade Beam</b>	<b>2056.32</b>	<b>cu.m</b>
3. 16 mm $\phi$ x 6M Steel Bars	1241.88	kgs
4. 10 mm $\phi$ x 6M Steel Bars	814.44	kgs
<b>Column</b>	<b>5014.22</b>	<b>cu.m</b>
5. 25 mm $\phi$ x 6M Steel Bars	1388.88	kgs
6. 20 mm $\phi$ x 6M Steel Bars	2666.52	kgs
7. 10 mm $\phi$ x 6M Steel Bars	958.82	kgs
<b>Mezzanine Beams</b>	<b>2466.28</b>	<b>cu.m</b>
8. 20 mm $\phi$ x 6M Steel Bars	1836.94	kgs
9. 10 mm $\phi$ x 6M Steel Bars	629.34	kgs
<b>Roof Beams</b>	<b>3440.69</b>	<b>cu.m</b>
10. 25 mm $\phi$ x 6M Steel Bars	416.66	kgs
11. 20 mm $\phi$ x 6M Steel Bars	414.79	kgs
12. 16 mm $\phi$ x 6M Steel Bars	1687.44	kgs
13. 10 mm $\phi$ x 6M Steel Bars	921.80	kgs
<b>Slabs</b>	<b>4879.88</b>	<b>cu.m</b>
14. 12 mm $\phi$ x 6M Steel Bars	4102.46	kgs
15. 10 mm $\phi$ x 6M Steel Bars	777.42	kgs
<b>Stairs, Stair Case Roofing Column &amp; Beams, Canopy, Kitchen Table</b>	<b>1122.36</b>	<b>cu.m</b>
16. 16 mm $\phi$ x 6M Steel Bars	474.00	kgs
17. 12 mm $\phi$ x 6M Steel Bars	426.24	kgs
18. 10 mm $\phi$ x 6M Steel Bars	222.12	kgs
<b>Stairs, Stair Case Roofing Column &amp; Beams, Canopy, Kitchen Table</b>	<b>372.96</b>	<b>cu.m</b>
17. 12 mm $\phi$ x 6M Steel Bars	372.96	kgs
19. Tie Wire #16	272	kgs

Direct Cost:

Labor:

Mark Up:

VAT: 5%

Item Cost:

Unit Cost:

Adjusted Item Cost:

<b>G. MASONRY WORKS</b>	465.46	sq.m.
<b>4"thk CHB Wall</b>	<b>77.33</b>	sq.m
1. C.H.B 4"	1007	pcs
<b>5"thk CHB Wall</b>	<b>388.13</b>	sq.m
2. C.H.B 5"	4952	pcs
3. Cement	661	bags
4. Sand	55	cu.m
5. 10mm dia. X 6.0 RSB	334	kgs
6. G.I Wire # 16	12	kgs

Direct Cost:

Labor:

Mark Up:

VAT: 5%

Item Cost:

Unit Cost:

Adjusted Item Cost:

<b>H. CARPENTRY WORKS ( Cabinets)</b>	1	lot
<b>Built-in /Wall Cabinet Kitchen Area</b>		
1. 3/4" Thk. Plyboard	10	pcs
2. 2" x 3" x 12' S4S Good Lumber	18	pcs
3. 1/2"x2" x 8' K.D	12	pcs
4. Accessories	1	lot
<b>Locker/Closet (5-Units)</b>		
1. 3/4" Thk. Plyboard	20	pcs
2. Assorted Nails	8	kgs
3. Termite Control Application	1	lot
4. Accessories	1	lot

Direct Cost:

Labor:

Mark Up:

VAT: 5%

Item Cost:

Unit Cost:

Adjusted Item Cost:

<b>I. CEILING WORKS</b>	<b>162.7</b>	<b>sq.m</b>
<b>GROUND FLOOR</b>	<b>91.3</b>	<b>sq.m</b>
1. Hardiflex Ceiling Board	36	pcs
2. Wall Angle @ 10ft	32	pcs
3. Double furrings	76	pcs
4. Carrying Channel	75	pcs
5. Adhesive	2	liters
6. 1 1/2" Concrete Nails	2	kgs
7. Black screw	1200	pcs
8. Hardwares and accessories	1	lot

<b>Mezzanine Floor</b>	<b>71.4</b>	<b>sq.m</b>
1. Hardiflex Ceiling Board	28	pcs
2. Wall Angle @ 10ft	26	pcs
3. Double furrings	64	pcs
4. Carrying Channel	64	pcs
5. Adhesive	2	pcs
6. 1 1/2" Concrete Nails	2	kgs
7. Black screw	1000	pcs
8. Hardwares and accessories	1	lot

**Direct Cost:**

**Labor:**

**Mark Up:**

**VAT:** 5%

**Item Cost:**

**Unit Cost:**

**Adjusted Item Cost:**

<b>J. DOORS AND WINDOWS</b>	<b>80.46</b>	<b>sq.m</b>
1. (D-1) Tempered Glass Door (12mm) with analok Frame (.90mx2.10m) with With Accessories (4-sets)	7.56	sq.m
2. (D-2) Solid Panel Door (.90mx2.10m) with Jamb and Complete Accessories (5-sets)	7.56	sq.m
3. (D-3) Solid Panel Door (.80mx2.10m) with Jamb and Complete Accessories (4-sets)	6.72	sq.m
4. (D-4) Plain PVC Flush Door (.60mx2.10) With Accessories (6-sets)	5.04	sq.m
6. (W-1) Awning Window with 6mm Thick Dark Tinted Glass in 50mm Thick Analok Aluminum Frame (1.8m x 3.90m) With Accessories (see details) (1-set)	7.02	sq.m
7. (W-2) Sliding Window with 6mm Thick Tainted Dark Glass in 50mm Thick Analok Aluminum Frame (2m x 1.20m) With Accessories (10 sets)	24	sq.m
8. (W-3) Sliding Window with 6mm Thick Dark Tinted Glass in 50mm Thick Analok Aluminum Frame (1.2m x 1.20m) With Accessories (10 sets)	14.4	sq.m
9. (W-4) Awning Window with 6mm Thick Tainted Dark Glass in 50mm Thick Analok Aluminum Frame (0.70m x 1.20m) With Accessories (1 set)	0.84	sq.m
10. (W-5) Awning window 6.0mm thick Tainted Glass with Analok Frame (.70m x 0.60m) With Accessories (6-sets)	2.52	sq.m
11. (W-6) Lover window blocks (2 sets) (1.6m x 2m)	6.4	sq.m
12. (W-7) Awning window 6.0mm thick Tainted Glass with Analok Frame (.80m x 1.20m) With Accessories (1 set)	4.8	sq.m

**Direct Cost:**

**Labor:**

**Mark Up:**

**VAT:** 5%

**Item Cost:**

**Unit Cost:**

**Adjusted Item Cost:**

<b>K. TILE WORKS</b>	<b>315.99</b>	<b>sq.m</b>
<b>Ground &amp; Mezzanine Floor</b>	<b>143.32</b>	<b>sq.m</b>
1. .60 m x .60 Granite Tiles	409	pcs
<b>Stairs</b>	<b>16.86</b>	<b>sq.m</b>
2. .30 m x .60 Granite Tiles	96	pcs

<b>Comfort Room Floor</b>	<b>13.61</b>	<b>sq.m</b>
3. .30 m x .30 Unglazed Tiles	162	pcs
<b>Comfort Room Walls (1.50M= Heights)</b>	<b>47.4</b>	<b>sq.m</b>
4. .30 m x .30 Glazed Tiles	536	pcs
<b>Fascade (see perspective design)</b>	<b>94.8</b>	<b>sq.m</b>
5. ABC Tile Adhesive	32	bags
6. ABC Tile Grout	20	bags
7. Cement	98	bags
8. Sand	12	cu.m
9.1-1/2" Stainless stair nosing	25	pcs

**Direct Cost:**

**Labor:**

**Mark Up:**

**VAT:** 5%

**Item Cost:**

**Unit Cost:**

**Adjusted Item Cost:**

<b>L. PLUMBING WORKS</b>	<b>1</b>	<b>lot</b>
<b>Ground Floor</b>		
1. PVC Pipe 6" dia.	8	pcs
2. PVC Pipe 4" dia.	10	pcs
3. PVC Pipe 3" dia. Including down spout	30	pcs
4. PVC Pipe 2" dia.	20	pcs
5. PVC Fittings	1	lot
6. Water Closet, Lavatory, Tissue Holder, Soap Holder with Fittings and Accessories	5	sets
7. Vanity Mirror	5	sets
8. Telephone shower head and valve	4	sets
9. Strainer 4" x 4" Stainless floor drain	7	pcs
10. Faucet	6	pcs
11. Bidet	5	sets
12. Hose Bibb	5	pcs
13. Teflon Tape	10	rolls
14. PVC Solvent Cement	6	cans
15. Water Pipe Line (1/2" dia.x 4m PPR PIPE PN 20)	19	pcs
16. Water Pipe Line (1/2" dia.x 4m PPR PIPE PN 20) Accessories	1	lot
17. Siamese Connection	1	set
18. Overhead Tank set Stainless ( 500 Gal.) with ,Accessories and Connection pipe with fittings to FIRE TRUCK, Kitchen / T&B Accessories	1	lot
19. Stainless Kitchen Sink Twintub with Complete Accessories	1	set
20. Stainless Towel Bar	4	sets
21. Flexible Rubber Hose 3" dia. Exhaust for Fire Truck (Maunted to exhaust of fire truck)	1	set

**Direct Cost:**

**Labor:**

**Mark Up:**

**VAT:** 5%

**Item Cost:**

**Unit Cost:**

**Adjusted Item Cost:**

<b>M. SEPTIC TANK</b>	1	lot
1. Cement	50	bags
2. Sand	3	cu.m
3. Gravel	2	cu.m
4. CHB 5"	420	pcs
5. 10mm dia x 6.0 m RSB	110.52	kgs
6. G.I Wire # 16	2	kilos
7. PVC Fittings	1	lot
8. Water Proofing Application	1	lot

**Direct Cost:**

**Labor:**

**Mark Up:**

**VAT:** 5%

**Item Cost:**

**Unit Cost:**

**Adjusted Item Cost:**

<b>N. ELECTRICAL WORKS</b>	1	lot
1. Installation of Double Pole Double Throw ( DPDT for Power Generator)	1	set
2. Entrance Cap 1" dia.	1	pc
3. Junction Box 4"x4" ( Deep Type)	56	pcs
4. Utility Box ( Deep type)	30	pcs
6. Convenience 2-gang outlet	26	set
7. Aircon Outlet	5	set
8. 4" dia Receptacle	38	set
9. Bell ( Big Ben)	1	set
10. 100W LED Lamp	4	sets
11. 80W LED Lamp	26	sets
12. 25W LED Lamp	18	sets
15. 1-way, 1-gang swith with utility box	11	sets
16. 1-way, 2-gang swith with utility box	11	sets
17. 1-way, 3-gang swith with utility box	1	set
18. 2.0 mmsq THHN Wire	5	boxes
19. 3.5 mmsq THHN Wire	5	boxes
20. 5.5 mmsq THHN Wire	2	boxes
21. 8.0 mmsq THHN Wire	100	mts
22. 22 mmsq THHN Wire	200	mts
23. 20mmdia uPVC Conduit	120	pcs
24. 40mm dia uPVC Conduit	15	pcs
25. 25mm dia RSC Conduit	3	mts
26. C Clamp for 20mmdia uPVC Conduit	180	pcs
27. C Clamp for 40mmdia uPVC Conduit	30	pcs
28. C Clamp for 25mmdia RSC Conduit	5	pcs
29. Elbow for 20mm dia uPVC Conduit	25	pcs
30. Elbow for 40mm dia uPVC Conduit	8	pcs
31. Electrical Tape	20	pcs
32. Tie Wire	10	kgs
33. Cable Tie	10	packs
34. Panel Board 12 Holes	1	set
35. 15AT, 50AF, 230V MCCB	3	sets
36. 30AT, 50AF, 230V MCCB	7	sets
37. 70AT, 50AF, 230V MCCB	1	set
38. 2 HP Split Type Air-Conditioning Unit	4	sets

**Direct Cost:**  
**Labor:**  
**Mark Up:**  
**VAT:** 5%  
**Item Cost:**  
**Unit Cost:**  
**Adjusted Item Cost:**

<b>O. IRON WORKS/STEEL WORKS</b>	1	lot
<b>Stair &amp; Hall Railings and Slide Pole</b>		
1. 3" Dia. Stainless Pipe S-40 Sliding Pole	2	pcs
2. 1-1/2" Stainless Steel S-40 Handrails, Railings, Grab Bars (Entrance and PWD CR) and Balusters	24	pcs
3. Welding Rod/Stainless	8	kgs
4. Grinding Disc	8	pcs
5. Cutting disc	15	pcs
6. Base Plates, Hardwares and Fittings	1	lot

**Direct Cost:**  
**Labor:**  
**Mark Up:**  
**VAT:** 5%  
**Item Cost:**  
**Unit Cost:**  
**Adjusted Item Cost:**

<b>P. PAINTING WORKS</b>	1288.02	sq.m
<b>Apparatus Area/Parking</b>		
1. Rubberized Paint 3 (Coats)	8	gal
<b>Interior and Exterior</b>		
<b>Ceiling</b>		
1. Neutralizer	4	gal
2. Skim Coat	12	sack
3. Easytite	8	gal
4. Flat Wall Latex Paint (1-coat)	42	gals
5. Gloss Latex Paint (2-coat)	84	gals
6. Flat Wall Enamel	11	gals
7. QDE	11	gals
8. Epoxy Primer	2	gals
9. Paint Thinner	3	gals
10. Paint Brush 3"	4	lot
11. 8 " Paint Roller with Pan	15	pcs
12. Baby Paint Roller	20	pcs
13. Assorted Sand Paper	45	sheets
14. Masking Tape	8	rolls
15. Varnish	4	gal

**Direct Cost:**  
**Labor:**  
**Mark Up:**  
**VAT:** 5%  
**Item Cost:**  
**Unit Cost:**  
**Adjusted Item Cost:**

<b>Q. PPE Rack,Shelves and Storage</b>	1	lot
1. Round Bars( PPE Hanging bar/rod)	1	pcs
2. 1/4" x 1-1/2" Angle Bar ( Steel Frame )	10	pcs
3. Barrel Bolt lock with handle	4	pcs
4. 2"x2" Meshwire ( Steel Matting)	8	pcs
5. Mobile Tire Rack	6	set
6. Welding Rod	1	kgs
7. Miscellaneous	1	lot

**Direct Cost:**

**Labor:**

**Mark Up:**

**VAT:** 5%

**Item Cost:**

**Unit Cost:**

**Adjusted Item Cost:**

<b>R. Emergency Light and Fire Extinguisher</b>	1	lot
1. Emergency Light	4	sets
2. Fire Extinguisher	5	pcs

**Direct Cost:**

**Labor:**

**Mark Up:**

**VAT:** 5%

**Item Cost:**

**Unit Cost:**

**Adjusted Item Cost:**

<b>S. COMPLETE WATER PROOFING OF ROOF TOP</b>	1	lot
1. Plexibond	6	gal
2. Portland Cement	4	bags
3. Assorted brush and roller	1	ls

**Direct Cost:**

**Labor:**

**Mark Up:**

**VAT:** 5%

**Item Cost:**

**Unit Cost:**

**Adjusted Item Cost:**

<b>T. COMPOSITE ALUMINUM BUILDING PANEL (including concrete slab canopy)</b>	113.13	sq.m.
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**Direct Cost:**

**Labor:**

**Mark Up:**

**VAT:** 5%

**Item Cost:**

**Unit Cost:**

**Adjusted Item Cost:**



<b>U.MISCELLANEOUS WORKS</b>		
	1	lot
1. BFP LOGO (see details)	1	set
2. DILG LOGO (see details)	1	set
3. 3D Stainless Letterings ( PILAR FIRE STATION) (see details)	16	pcs
4. Steel Bed Bunks (see details)	7	set
5. Office table (see details)	7	set
4. Wooden Dining Table Set (see details)	1	set

**Direct Cost:**

**Labor:**

**Mark Up:**

**VAT:** 5%

**Item Cost:**



**Adjusted Item Cost:**

<b>ESTIMATED CONTRACT COST</b>	<b>IN FIGURE</b>	
	<b>IN WORDS</b>	

Prepared By:

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Contractor/Manager