



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 TAYUM FIRE STATION WITH MEZZANINE
OWNER : BUREAU OF FIRE PROTECTION
LOCATION : POBLACION, TAYUM, ABRA
AMOUNT : Php 7,320,968.20
DATE : March 10, 2021

BILL OF QUANTITIES

DESCRIPTION	QTY	UNIT	UNIT COST	AMOUNT
A1. MOBILIZATION/DEMobilIZATION	1	lot		
A2. Building permit fees/ Miscellaneous fee	1	lot		
A3. Equipment Rentals	1	lot		
A4 Complete Soil poisoning	1	lot		
A5. DILG/BFP Official Logo and Stainless Metal Cut Out Letters Signage	1	lot		
A6. Electrical /Main line connection	1	lot		
A7. Water Main line connection	1	lot		
A8. Removal of Existing Trees / Hauling	1	lot		
A9. EXCAVATION	1	lot		
A10. BACKFILL	1	lot		
A11. Personal Protective Equipment, Medicine and Signage	1	lot		
A12. Project Billboard	1	lot		
Sub-Total				
B. SITE DEVELOPMENT	1	lot		
1. Flagpole Construction	1	lot		
2. Planting/Ground cover/Vegetation	1	lot		
Material Cost				
C. FORM WORKS AND SCAFFOLDING	1	lot		
1. Phenolic Board, 1/2" x 4' x 8'	115	pcs		
2. 2" x 3" x 12' Good Lumber	1200	bd.ft		
3. 2" x 4" x 12' Good Lumber	1600	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		
Material Cost				
D. CONCRETE WORKS:	155.41	cu.m		
Footing	24.06	cu.m		
Grade Beam	15.82	cu.m		

Column	15.82	cu.m
Mezzanine Beams	10.35	cu.m
Roof Beams	14.63	cu.m
Slabs	49.46	cu.m
Stairs, Stair Case Roofing Column & Beams, Canopy, Kitchen Table	5.42	cu.m
Pathwalk/Concrete paving/Driveway/Canal Concrete Cover	19.86	cu.m
1. Portland Cement	1399	bags
2. Crushed Sand	78	cu.m
3. Crushed Gravel	125	cu.m
Material Cost		
E. REINFORCING STEEL BAR WORKS:	20860.03	kgs
Footing	1507.32	kgs
1. 16 mm φ x 6M Steel Bars	132.72	kgs
2. 16 mm φ x 7.5M Steel Bars	1374.6	kgs
Grade Beam	2056.32	cu.m
3. 16 mm φ x 6M Steel Bars	1241.88	kgs
4. 10 mm φ x 6M Steel Bars	814.44	kgs
Column	5014.22	cu.m
5. 25 mm φ x 6M Steel Bars	1388.88	kgs
6. 20 mm φ x 6M Steel Bars	2666.52	kgs
7. 10 mm φ x 6M Steel Bars	958.82	kgs
Mezzanine Beams	2466.28	cu.m
8. 20 mm φ x 6M Steel Bars	1836.94	kgs
9. 10 mm φ x 6M Steel Bars	629.34	kgs
Roof Beams	3440.69	cu.m
10. 25 mm φ x 6M Steel Bars	416.66	kgs
11. 20 mm φ x 6M Steel Bars	414.79	kgs
12. 16 mm φ x 6M Steel Bars	1687.44	kgs
13. 10 mm φ x 6M Steel Bars	921.80	kgs
Slabs	4879.88	cu.m
14. 12 mm φ x 6M Steel Bars	4102.46	kgs
15. 10 mm φ x 6M Steel Bars	777.42	kgs
Stairs, Stair Case Roofing Column & Beams, Canopy, Kitchen Table	1122.36	cu.m
16. 16 mm φ x 6M Steel Bars	474.00	kgs
17. 12 mm φ x 6M Steel Bars	426.24	kgs
18. 10 mm φ x 6M Steel Bars	222.12	kgs
Stairs, Stair Case Roofing Column & Beams, Canopy, Kitchen Table	372.96	cu.m
17. 12 mm φ x 6M Steel Bars	372.96	kgs
19. Tie Wire #16	272	kgs
Material Cost		
F. MASONRY WORKS	312.19	sq.m.
4"thk CHB Wall	78.24	sq.m
1. C.H.B 4"	1019	pcs
6"thk CHB Wall	233.95	sq.m
2. C.H.B 6	2975	pcs
3. Cement	430	bags
4. Sand	38	cu.m
5. 10mm dia. X 6.0 RSB	224	kgs
6. G.I Wire # 16	12	kgs
Material Cost		
G. CARPENTRY WORKS (Cabinets)	1	lot
Built-in /Wall Cabinet Kitchen Area		
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

Locker/Closet (5-Units)		
1. 3/4" Thk. Plyboard	20	pcs
2. Assorted Nails	8	kgs
3. Termite Control Application	1	lot

Material Cost

H. CEILING WORKS	132.05	sq.m
GROUND FLOOR (68.4 SQ.M)	68.4	sq.m
1. Hardiflex Ceiling Board	32	pcs
2. Wall Angle @ 10ft	28	pcs
3. Double furrings	35	pcs
4. Carrying Channel	25	pcs
5. Adhesive	2	liters
6. 1 1/2" Concrete Nails	1	kgs
7. Black screw	1200	pcs
8. Hardwares and accessories	1	lot

Mezzanine Floor (63.65 Sq.M)	63.65	sq.m
1. Hardiflex Ceiling Board	26	pcs
2. Wall Angle @ 10ft	23	pcs
3. Double furrings	35	pcs
4. Carrying Channel	23	pcs
5. Adhesive	2	pcs
6. 1 1/2" Concrete Nails	1	kilo
7. Black screw	1000	pcs
8. Hardwares and accessories	1	lot

Material Cost

I. DOORS AND WINDOWS	1	lot
Ground Floor		
1. (D-1) Panel Door (45mm thick) with Jamb(.90mx2.10m)(Tanguile Panel Door) With Accessories	2	sets
2.(D-2) Tempered Glass Door (12mm) with analok Frame (.80mx2.10m) with With Accessories	2	sets
3.(D-3) Flush Door in 50mm x 125mm KILN Dried Tanguile Door Jamb With Accessories	7	sets
4.(D-4) Plain PVC Flush Door (.60mx2.10) With Accessories	5	sets
5.(D-5) Double Swing Solid Panel Door (1.6mx2.10) With Accesso	1	sets
6.(W-1) Casement Window with 6mm Thick Dark Tinted Glass in 50mm Thick Analok Aluminum Frame (2m x 1.30m) With Accessories	10	sets
7.(W-2) Sliding Window with 6mm Thick Tainted Dark Glass in 50mm Thick Analok Aluminum Frame (2m x 1.30m) With Accessories	3	set
8.(W-3) Casement Window with 6mm Thick Dark Tinted Glass in 50mm Thick Analok Aluminum Frame (1.2m x 1.30m) With Accessories	6	sets

9.(W-4) Sliding Window with 6mm Thick Tainted Dark Glass in 50mm Thick Analok Aluminum Frame (1.20m x 1.30m) With Accessories	3	set
10. (W-5) Awning window 6.0mm thick Tainted Glass with Analok Frame (.80m x 0.60m) With Accessories	4	sets
11. (W-6) Awning window 6.0mm thick Tainted Glass with Analok Frame (.60m x 0.60m) With Accessories	2	sets
12.6mm Thick Tainted Dark Glass in 50mm Thick Analok Aluminum Frame wall (17.18 sq.m) (see Spot detail "B")	1	set
13.6mm Thick Clear Glass in 50mm Thick Analok Aluminum Frame with Counter (see Spot Detail "A")	1	set
14.6mm Thick Clear Glass in 50mm Thick Analok Aluminum Frame with Counter (see Spot Detail "D")	1	set

Material Cost

J. HARDWARE	1	lot
1. Stainless Cabinet Handle	36	pcs
2. Cabinet Lockset	36	sets
3. Piano Hinges	36	pcs

Material Cost

K. TILE WORKS	159.01	sq.m
Ground & Mezzanine Floor (63.65 sq.m & 68.4 sq.m)	132.05	sq.m
1. .60 m x .60 Granite Tiles	390	pcs
Stairs (26.96 sq.m)	26.96	sq.m
2. .60 m x .60 Granite Tiles	85	pcs
Comfort Room Floor & Wall	61.37	sq.m
3. .30 m x .30 Unglazed & Glazed Tiles	685	pcs
4. ABC Tile Adhesive	25	bags
5. ABC Tile Grout	15	bags
6. Cement	80	bags
7. Sand	12	cu.m
8. 1-1/2" Stainless stair nosing	25	pcs

Material Cost

L. PLUMBING WORKS	1	lot
Ground Floor		
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 with Fittings and Accessories (american standard)	5	sets
7. Lavatory with Fittings and Accessories (american standard)	5	sets
8. Vanity Mirror	5	sets
9. Telephone shower head and valve	4	sets
10. Strainer 4" x 4" Stainless floor drain	10	pcs
11. Faucet	6	pcs
12. Soap Holder	5	sets
13. Tissue Holder	5	sets
14. Bidet	5	sets

15. Hose Bibb	5	pcs
16. Teflon Tape	20	rolls
17. PVC Solvent Cement	6	cans
18. Water Pipe Line with fittings (PPR No. 20)	1	l.s
19. Siamese Connection	1	set
20. Overhead Tank set Stainless (500 Gal.) with ,Accessories and Connection pipe with fittings to FIRE TRUCK.	1	lot
Kitchen / T&B Accessories		
21. Kitchen/ Dining Utensil organizer	1	set
22. Stainless Towel Bar	4	sets
23. Grab Bars for PWD (common CR)	2	sets
24. Flexible Rubber Hose 3" dia. Exhaust for Fire Truck (Maunted to exhaust of fire truck)	1	set

Material Cost

M. SEPTIC TANK	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	30	pcs
6. G.I Wire # 16	2	kilos
7. PVC Fittings	1	lot
8. Water Proofing Application	1	lot

Material Cost

N. ELECTRICAL WORKS	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)	50	pcs
4. Utility Box (Deep type)	30	pcs
5. Co-Axial Cable	1	box
6. Convenience 2-gang outlet	28	set
7. Aircon Outlet	5	set
8. Range Outlet	1	set
9. Bell (Big Ben)	1	set
10. 100W LED Lamp	5	sets
11. 2x40W Tubular Fluorescent Lamp	35	sets
12. 25W Compact Fluorescent Lamp	6	sets
13. 25W Pinlight	9	sets
14. 18W Compact Fluorescent Lamp	5	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. 30 mmsq THHN Wire	200	mts
23. 20mmdia uPVC Conduit	200	pcs
24. 40mm dia uPVC Conduit	15	pcs
25. 25mm dia RSC Conduit	3	mts
26. C Clamp for 20mmdia uPVC Conduit	200	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	30	pcs
30. Elbow for 40mm dia uPVC Conduit	10	pcs
31. Electrical Tape	20	pcs
32. Tie Wire	10	kgs
33. Cable Tie	10	packs
34. Panel Board	1	set
35. 20AT, 50AF, 230V MCCB	3	sets
36. 30AT, 50AF, 230V MCCB	9	sets
37. 100AT, 50AF, 230V MCCB	1	set
38. 2 HP Split Type Air-Conditioning Unit	5	sets

Material Cost

O. IRON WORKS/STEEL WORKS	1	lot
Stair & Hall Railings and Slide Pole		
1. 2"x3" Tubular Stainless	8	pcs
2. 2"x2" Tubular Stainless	8	pcs
3. 1" x 1" Tubular Stainless	30	pcs
4. Welding Rod/Stainless	15	kgs
5. Hack Saw Blade	8	pcs
6. Grinding Disc	20	pcs
7. Cutting disc	7	pcs
8. 3" Dia. Stainless Pipe S-40	2	pcs
9. Base Plates, Hardwares and Fittings	1	lot

Material Cost

P. PAINTING WORKS	916.38	sq.m
Apparatus Area/Parking	97.2	sq.m
1. Rubberized Paint 2 (Coats)	1	lot
Interior and Exterior	680.38	sq.m
Ceiling	138.8	sq.m
1. Neutralizer	4	gal
2. Skim Coat	12	sack
3. Easytite	8	gal
4. Flat Wall Latex Paint (1-coat)	30	gals
5. Gloss Latex Paint (2-coat)	60	gals
6. Flat Wall Enamel	8	gals
7. QDE	8	gals
8. Epoxy Primer	2	gals
9. Paint Thinner	3	gals
10. Paint Brush 3", 2" and 1"	1	lot
11. 8 " Paint Roller with Pan	15	pcs
12. Baby Paint Roller	20	pcs
13. Assorted Sand Paper	80	sheets
14. Paint Rug	8	kgs
15. Masking Tape	8	rolls
16. Varnish	4	gal

Material Cost

Q. FACADE TILE WORKS, (See Plan for Detail)	1	lot
1. Granite Tiles 600mmx600mm Brick design	50	pcs.
2. Sand	3	cu.m
3. Tile Adhesive	12	bags
4. Tile Grout	6	kilos

Material Cost

R. PERIMETER FENCE (41.5 m)	1	lot
column and column footing (15 units)	2.69	cu.m
wall footing	1.87	cu.m
CHB Wall w/ Plastering & Painting	124.5	sq.m
1. Cement	350.00	bags
2. Sand	16.00	cu.m
3. Gravel	6.00	cu.m
4. 1/4" x 2" x2" x 6m Angle Bar	40	pcs
5. CHB 4"	1572	pcs
6. 10 mm RSB	70	pcs
7. 12mm RSB	140	pcs
8. Tie Wire	15	kls
9. Paints	8	gal
10. Welding Rod	10	kls
11. Fabricated Single Gate 0.8m x 2.10m with accessories	2	set
Material Cost		
S. PPE Rack, Shelves and Storage	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
Material Cost		
T. Fire Detection and Alarm System (FDAS)	1	lot
1. Smoke Detector	2	sets
2. Emergency Light	2	sets
3. Fire Extinguisher	3	pcs
4. Other Fire Safety Devices	1	lot
Material Cost		
U. Storage Room	1	lot
1. Cement	90	bags
2. Sand	4	cu.m
3. Gravel	7	cu.m
4. CHB 5"	490	pcs
5. 12mm dia x 6.0 m RSB	49	pcs
6. 10mm dia x 6.0 m RSB	82	pcs
7. G.I Wire # 16	15	kilos
Material Cost		
V. COMPLETE WATER PROOFING OF ROOF TOP	1	lot
1. Plexibond	35	gal
2. Portland Cement	7	bags
3. Assorted brush and roller	1	ls
Material Cost		
W. TRENCH DRAIN(including grill top cover) with GREASE TRAP (Drainage Sysytem)	1	lot
Material Cost		

X. COMPOSITE ALUMINUM BUILDING PANEL (including concrete slab canopy)	1	lot
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Material Cost

Y. FURNITURES (see detailed plan)	1	lot
1. Wooden Office Table with lock	8	set
2. Wooden Computer table	6	set
3. Wooden Dinning Table with 6 chairs	1	set
4. Double Bed Steel Bed Bunk	9	set

Material Cost

I. ESTIMATED CONTRACT COST

TOTAL MATERIAL COST
TOTAL LABOR COST
TOTAL DIRECT COST
CONTRACTORS PROFIT(8%)
OCM (12%)
VAT (5%)
TOTAL INDIRECT COST
GRAND TOTAL ESTIMATED COST

Prepared By:

CONTRACTOR