**PHILIPPINE ATMOSPHERIC, GEOPHYSICAL AND ASTRONOMICAL SERVICES ADMINISTRATION**
**Project Title : Proposed Construction of Apayao Synoptic and Flood Forecasting Warning Center**
**Location : Apayao Ecotourism Sports Complex, Payanan, San Gregorio, Luna, Apayao**
**Subject : BILL OF MATERIALS**

| ITEM | ITEM / DESCRIPTION | QTY. | UNIT | UNIT COST | ESTIMATED DIRECT COST (EDC) | | | DIRECT COST | INDIRECT COST (IC) | | | | | TOTAL AMOUNT | UNIT COST |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | MATERIAL | LABOR | EQUIPMENT | | OVERHEAD | CONTIGENCIES | MISCELLANEOUS | PROFIT | VAT-COMPONENT | | |
| 1 | **GERERAL REQUIREMENTS:** | | | | | | | | | | | | | | |
| | Bodega, Bunkhouse | 1 | lot | | | | | | | | | | | | |
| | Mobilization | 1 | lot | | | | | | | | | | | | |
| | Scaffolding | 1 | lot | | | | | | | | | | | | |
| **First Floor** | | | | | | | | | | | | | | | |
| 2 | **EARTH WORKS** | | | | | | | | | | | | | | |
| | *a. Backfilling + ,30% compaction(17mx12mx.50m)+,30%* | 132 | cu.m | | | | | | | | | | | | |
| | *b. Excavation of Foundation Of Colunm & Wall Footing* | 83 | cu.m | | | | | | | | | | | | |
| | *c. Soil poisoning (Termite X)* | 504 | cu.m | | | | | | | | | | | | |
| 3 | **STRUCTURAL WORKS** | | | | | | | | | | | | | | |
| | a. Wall Footing, Foundation | | | | | | | | | | | | | | |
| | Cement | 26.00 | Bags | | | | | | | | | | | | |
| | Sand | 2.00 | cu.m | | | | | | | | | | | | |
| | gravel bedding | 1.00 | cu.m | | | | | | | | | | | | |
| | Crust gravel 3/4" class A | 4.00 | cu.m | | | | | | | | | | | | |
| | RSB 12mm dia. X 6.0m | 25.00 | pcs | | | | | | | | | | | | |
| | Tie wire #16 | 4.00 | kg | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | b. Column Footing Foundation | | | | | | | | | | | | | | |
| | Cement | 78 | Bags | | | | | | | | | | | | |
| | Sand | 4 | cu.m | | | | | | | | | | | | |
| | Gravel bedding, 100mm.thk. | 1 | cu.m | | | | | | | | | | | | |
| | Crust gravel 3/4" class A | 8 | cu.m | | | | | | | | | | | | |
| | RSB 16mm dia. X 6.0m | 84 | pcs | | | | | | | | | | | | |
| | Tie wire #16 | 10 | kg | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | c. Tie Beam | | | | | | | | | | | | | | |
| | Cement | 85 | Bags | | | | | | | | | | | | |
| | Sand | 5 | cu.m | | | | | | | | | | | | |
| | Crust gravel 3/4" class A | 9 | cu.m | | | | | | | | | | | | |
| | RSB 10mm dia. X 6.0m | 94 | pcs | | | | | | | | | | | | |
| | RSB 16mm dia. X 6.0m | 57 | pcs | | | | | | | | | | | | |
| | Tie wire #16 | 15 | kg | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | d. Concrete Column | | | | | | | | | | | | | | |
| | Cement | 224 | Bags | | | | | | | | | | | | |
| | Sand | 11 | cu.m | | | | | | | | | | | | |
| | Crust gravel 3/4" class A | 20 | cu.m | | | | | | | | | | | | |
| | RSB 10mm dia. X 6.0m | 225 | pcs | | | | | | | | | | | | |
| | RSB 16mm dia. X 6.0m | 167 | pcs | | | | | | | | | | | | |
| | Tie wire #16 | 42 | kg | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | e. Rectangular Beam | | | | | | | | | | | | | | |
| | Cement | 104 | Bags | | | | | | | | | | | | |
| | Sand | 5 | cu.m | | | | | | | | | | | | |
| | Crust gravel 3/4" class A | 9 | cu.m | | | | | | | | | | | | |
| | RSB 10mm dia. X 6.0m | 152 | pcs | | | | | | | | | | | | |
| | RSB 16mm dia. X 6.0m | 104 | pcs | | | | | | | | | | | | |
| | Tie wire #16 | 15 | kg | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | g. Entrace Canopy | | | | | | | | | | | | | | |
| | Cement | 13 | Bags | | | | | | | | | | | | |
| | Sand | 1 | cu.m | | | | | | | | | | | | |
| | Crust gravel 3/4" class A | 1 | cu.m | | | | | | | | | | | | |
| | RSB 10mm dia. X 6.0m | 24 | pcs | | | | | | | | | | | | |
| | Tie wire #16 | 2 | kg | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | h. OVERHANG SLAB Canopy | | | | | | | | | | | | | | |
| | Cement | 30 | Bags | | | | | | | | | | | | |
| | Sand | 2 | cu.m | | | | | | | | | | | | |
| | Crust gravel 3/4" class A | 2 | cu.m | | | | | | | | | | | | |
| | RSB 10mm dia. X 6.0m | 24 | pcs | | | | | | | | | | | | |
| | Tie wire #16 | 2 | kg | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | i. Ground Flooring | | | | | | | | | | | | | | |
| | Cement | 210 | Bags | | | | | | | | | | | | |
| | Sand | 11 | cu.m | | | | | | | | | | | | |
| | S1 | 10 | cu.m | | | | | | | | | | | | |
| | Crust gravel 3/4" class A | 22 | cu.m | | | | | | | | | | | | |
| | RSB 10mm dia. X 6.0m | 392 | pcs | | | | | | | | | | | | |
| | Tie wire #16 | 55 | kg | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | J. Concrete Roofing 1.00M wide, 5.00M length and 0.125M thk | | | | | | | | | | | | | | |
| | Cement | 5 | bags | | | | | | | | | | | | |
| | Sahara cement | 5 | packs | | | | | | | | | | | | |
| | Sand | 0.5 | cum | | | | | | | | | | | | |
| | Gravel | 1 | cum | | | | | | | | | | | | |
| | Rebars, 12mm | 30 | pcs. | | | | | | | | | | | | |
| | GI Tie wire, #16 | 3 | kgs | | | | | | | | | | | | |
| | Plywood, 12mmthk | 2 | pcs. | | | | | | | | | | | | |
| | 2" x 4" x 12' coco Lumber | 300 | bf | | | | | | | | | | | | |
| | Assorted common Nails | 4 | kgs | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | K. Concrete Window Canopy Dimension : 32.00LM x 0.60M @ 0.075m thk. | | | | | | | | | | | | | | |
| | Cement | 10 | bags | | | | | | | | | | | | |
| | Sand | 0.5 | cum | | | | | | | | | | | | |
| | Gravel | 1 | cum | | | | | | | | | | | | |
| | Sahara Cement | 10 | packs | | | | | | | | | | | | |
| | Rebars, 12mm | 39 | pcs. | | | | | | | | | | | | |
| | GI Tie Wire #16 | 2 | kgs | | | | | | | | | | | | |
| | Plywood, 12mm | 5 | pcs. | | | | | | | | | | | | |
| | Coco Lumber, 2" x 2" x 12' | 110 | bf. | | | | | | | | | | | | |
| | Assorted Common Wire Nail | 6 | kgs | | | | | | | | | | | | |
| | Coco Lumber, 2" x 4" x 12' | 450 | bf. | | | | | | | | | | | | |
| | Coco Lumber, 2" x 3" x 12' | 60 | bf. | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 4 | **Masonry Works** | | | | | | | | | | | | | | |
| | a. Masonry Works/Wall | | | | | | | | | | | | | | |
| | #6CHB | 2,321 | pcs | | | | | | | | | | | | |
| | Cement | 111 | Bags | | | | | | | | | | | | |
| | Sand | 9 | cu.m | | | | | | | | | | | | |
| | RSB 10mm dia. X 6.0m | 85 | pcs | | | | | | | | | | | | |
| | Tie wire #16 | 9 | kg | | | | | | | | | | | | |
| | b. Masonry Works/Partions | | | | | | | | | | | | | | |
| | #4CHB | 3,157 | pcs | | | | | | | | | | | | |
| | Cement | 152 | Bags | | | | | | | | | | | | |
| | Sand | 13 | cu.m | | | | | | | | | | | | |
| | RSB 10mm dia. X 6.0m | 123 | pcs | | | | | | | | | | | | |
| | Tie wire #16 | 12 | kg | | | | | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | MATERIAL | LABOR | EQUIPMENT | | OVERHEAD | CONTIGENCIES | MISCELLANEOUS | PROFIT | VAT-COMPONENT | | |
| | c. Plasterina/Finishing | | | | | | | | | | | | | | |
| | Cement | 64 | Bags | | | | | | | | | | | | |
| | Sand | 4 | Cu.m | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 5 | **Ceiling Works** | | | | | | | | | | | | | | |
| | CMT T-Runner (main tee) @ 3.60M | 60 | pcs. | | | | | | | | | | | | |
| | CMT Cross Tee, @ 1.20M | 41 | pcs. | | | | | | | | | | | | |
| | CMT Cross tee @ 0.60M | 312 | pcs. | | | | | | | | | | | | |
| | Ceiling Hanger Channel @ 16ft | 23 | pcs. | | | | | | | | | | | | |
| | CMT Wall Angle @ 3.00M | 41 | pcs. | | | | | | | | | | | | |
| | Ceiling Boards,12mm x 0.60M x 1.2M | 122 | pcs. | | | | | | | | | | | | |
| | Hanger Rod with accessores | 133 | sets | | | | | | | | | | | | |
| | Ceiling Accessories | 1 | lot | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 6 | **Tiles Works** | | | | | | | | | | | | | | |
| | *Granite Floor Tiles 60cm x 60cm* | 500 | pcs | | | | | | | | | | | | |
| | *All Purpose Tile Adhesive @ 25kg/bag* | 255 | Bags | | | | | | | | | | | | |
| | *ABC Grout 2 kg/pck* | 34 | Packs | | | | | | | | | | | | |
| | *Ceramic C.R. Floor Tiles 30 x 30* | 180 | pcs | | | | | | | | | | | | |
| | *Tiles Adhesive per(20kls)* | 76 | Bags | | | | | | | | | | | | |
| | *Ceramic C.R. Wall Tiles 30 x 30* | 570 | pcs | | | | | | | | | | | | |
| | *Tile Trim* | 10 | pcs | | | | | | | | | | | | |
| | *Flooring Accessories* | 1 | lot | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 7 | ***GROUND FLOOR DOOR*** | | | | | | | | | | | | | | |
| | Analuk Framed Glass Door (0.80M x 2.10M with installatio | 2 | sets | | | | | | | | | | | | |
| | Plastic Doors, 0.60M x 2.10M with plastic door jambs and | 2 | sets | | | | | | | | | | | | |
| | Panel Door, 2.10M x 0.90M | 3 | pcs. | | | | | | | | | | | | |
| | Panel Door, 2.10M x 0.90M w/ peep-in glass | 1 | pc | | | | | | | | | | | | |
| | Panel Door, 2.10m x 0.80M | 1 | pc | | | | | | | | | | | | |
| | Panel Door, 2.10M x 0.75M | 1 | pc | | | | | | | | | | | | |
| | Wood Door Jambs, 2" x 5" | 6 | pcs. | | | | | | | | | | | | |
| | Steel Door, 0.90M x 2.10M including steel door jamb and | 1 | sets | | | | | | | | | | | | |
| | Loose Pin Hinges, 4" x 4" | 9 | pairs | | | | | | | | | | | | |
| | Door Lockset | 8 | sets | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 8 | ***GROUND FLOOR WINDOW*** | | | | | | | | | | | | | | |
| | Aluminum Framed Sliding Windows, 1.20M x 2.50M | 4 | sets | | | | | | | | | | | | |
| | Aluminum Framed sliding Glass Windows, 1.20M x 1.40M | 1 | set | | | | | | | | | | | | |
| | Aluminum Framed Sliding Glass Windows, 1.00M x 1.40M | 1 | set | | | | | | | | | | | | |
| | Aluminum Framed Awning Type Window, 0.60M x 0.60M | 2 | sets | | | | | | | | | | | | |
| | Analuk Aluminum Framed Glass Windows with fixed glass and awning at bottom, 0.80M x 1.20M | 1 | set | | | | | | | | | | | | |
| | 2" x 4" Analuk Aluminum Framed Curtain Type Window w/ awning and tempered fixed glass (2.70M x 4.80M) | 1 | set | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 9 | **PLUMBING WORKS 1st Foor** | | | | | | | | | | | | | | |
| | PVC PIPE ALASCO 4"Ø X 10' SERIES 1000 | 14 | PCS. | | | | | | | | | | | | |
| | PVC PIPE ALASCO 2"Ø X 10' SERIES 1000 | 12 | PCS. | | | | | | | | | | | | |
| | PVC WYE 4"Ø X 4"Ø | 9 | PCS. | | | | | | | | | | | | |
| | PVC WYE 4"Ø X 2"Ø | 13 | PCS. | | | | | | | | | | | | |
| | PVC TEE 4"Ø X 4"Ø | 4 | PCS. | | | | | | | | | | | | |
| | PVC TEE 4"Ø X 2"Ø | 6 | PCS. | | | | | | | | | | | | |
| | PVC ELBOW 4"Ø X 90° | 14 | PCS. | | | | | | | | | | | | |
| | PVC ELBOW 4"Ø X 45° | 9 | PCS. | | | | | | | | | | | | |
| | PVC WYE 2"Ø X 2"Ø | 6 | PCS. | | | | | | | | | | | | |
| | PVC TEE 2"Ø X 2"Ø | 16 | PCS. | | | | | | | | | | | | |
| | PVC ELBOW 2"Ø X 90° | 21 | PCS. | | | | | | | | | | | | |
| | PVC ELBOW 2"Ø X 45° | 11 | PCS. | | | | | | | | | | | | |
| | PVC P TRAP 2"Ø | 7 | PCS. | | | | | | | | | | | | |
| | PVC CLEAN OUT 4"Ø | 4 | PCS. | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 10 | **WATER LINE:** | | | | | | | | | | | | | | |
| | PVC MOLDEX PIPE 3/4" X 10' | 15 | PCS. | | | | | | | | | | | | |
| | PVC MOLDEX PIPE 1/2" X 10' | 6 | PCS. | | | | | | | | | | | | |
| | PVC ELBOW 3/4" X 90° | 9 | PCS. | | | | | | | | | | | | |
| | PVC ELBOW REDUCER 3/4 X 1/2 | 6 | PCS. | | | | | | | | | | | | |
| | PVC TEE 3/4" | 7 | PCS. | | | | | | | | | | | | |
| | PVC TEE REDUCER 3/4 X 1/2 | 8 | PCS. | | | | | | | | | | | | |
| | PVC ELBOW 1/2" X 90° | 8 | PCS. | | | | | | | | | | | | |
| | PVC ELBOW 1/2" X 90° ONE SIDE THREADED | 14 | PCS. | | | | | | | | | | | | |
| | PVC MALE ADAPTOR 3/4" | 6 | PCS. | | | | | | | | | | | | |
| | PVC FEMALE ADAPTOR 1/2" | 6 | PCS. | | | | | | | | | | | | |
| | GATE VALVE 3/4" | 2 | PCS. | | | | | | | | | | | | |
| | TEFLON TAPE | 5 | PCS. | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 11 | ***PAINTING GROUND FLOOR*** | | | | | | | | | | | | | | |
| | Latext Paint | 6 | pails | | | | | | | | | | | | |
| | Enamel Paint | 4 | gals | | | | | | | | | | | | |
| | Painting Colors | 6 | Lit | | | | | | | | | | | | |
| | Paint Thinner | 6 | gals | | | | | | | | | | | | |
| | Calsomine | 20 | kls | | | | | | | | | | | | |
| | Sandpaper, #80 | 5 | yards | | | | | | | | | | | | |
| | Roller Brush 4" w/ Tray | 4 | pcs | | | | | | | | | | | | |
| | Paint Brush 2" | 4 | pcs | | | | | | | | | | | | |
| 11.1 | **Speciality Works** | | | | | | | | | | | | | | |
| | Curtain Wall, Tempered Glass, 12mm Thk. | 1 | lot | | | | | | | | | | | | |
| | Glass Wall, Temperd Glass, 12mm | 1 | lot | | | | | | | | | | | | |
| 11.2 | **Mechanical Works** | | | | | | | | | | | | | | |
| | Booster Pump;1 HP; with metal mounting | 1 | lot | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| **Second Floor** | | | | | | | | | | | | | | | |
| 12 | **STRUCTURAL WORKS** | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | a. Concrete Column | | | | | | | | | | | | | | |
| | Cement | 99 | Bags | | | | | | | | | | | | |
| | Sand | 5 | cu.m | | | | | | | | | | | | |
| | Crust gravel 3/4" class A | 9 | cu.m | | | | | | | | | | | | |
| | RSB 10mm dia. X 6.0m | 38 | pcs | | | | | | | | | | | | |
| | RSB 16mm dia. X 6.0m | 49 | pcs | | | | | | | | | | | | |
| | Tie wire #16 | 9 | kg | | | | | | | | | | | | |
| | b. Rectangular Beam | | | | | | | | | | | | | | |
| | Cement | 103 | Bags | | | | | | | | | | | | |
| | Sand | 6 | cu.m | | | | | | | | | | | | |
| | Crust gravel 3/4" class A | 12 | cu.m | | | | | | | | | | | | |
| | RSB 10mm dia. X 6.0m | 145 | pcs | | | | | | | | | | | | |
| | RSB 16mm dia. X 6.0m | 190 | pcs | | | | | | | | | | | | |
| | Tie wire #16 | 14 | kg | | | | | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | MATERIAL | LABOR | EQUIPMENT | | OVERHEAD | CONTIGENCIES | MISCELLANEOUS | PROFIT | VAT-COMPONENT | | |
| | c. Concrete Floor Slab | | | | | | | | | | | | | | |
| | Cement | 210 | Bags | | | | | | | | | | | | |
| | Sand | 11 | cu.m | | | | | | | | | | | | |
| | Crust gravel 3/4" class A | 21 | cu.m | | | | | | | | | | | | |
| | RSB 10mm dia. X 6.0m | 392 | pcs | | | | | | | | | | | | |
| | RSB 12mm dia. X 6.0m | 392 | pcs | | | | | | | | | | | | |
| | Tie wire #16 | 100 | kg | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | c. Masonry Works/Partions | | | | | | | | | | | | | | |
| | #4CHB | 1,784 | pcs | | | | | | | | | | | | |
| | Cement | 27 | Bags | | | | | | | | | | | | |
| | Sand | 2 | cu.m | | | | | | | | | | | | |
| | RSB 10mm dia. X 6.0m | 72 | pcs | | | | | | | | | | | | |
| | Tie wire #16 | 7 | kg | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | d. Plastering/Finishing | | | | | | | | | | | | | | |
| | Cement | 64 | Bags | | | | | | | | | | | | |
| | Sand | 4 | cu.m | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 14 | **Celing Works** | | | | | | | | | | | | | | |
| | *CMT - T Runner (main tee)@ 3.60m length* | 102 | pcs. | | | | | | | | | | | | |
| | *CMT - Wall angle 3.60m length @ 3M Length* | 340 | pcs. | | | | | | | | | | | | |
| | *CMT cross tee@ 0.60M length* | 102 | pcs. | | | | | | | | | | | | |
| | *CMT cross tee@ 1.20M length* | 340 | pcs. | | | | | | | | | | | | |
| | *CMT main tee self jointing butt joint* | 37 | pcs. | | | | | | | | | | | | |
| | *CMT main tee to cross tee* | 68 | pcs. | | | | | | | | | | | | |
| | *hanger /rods @.67M rod length and complete accessories* | 17 | pcs. | | | | | | | | | | | | |
| | *Ceiling boards, @ 12mm thick X .6M x 1.20M* | 208 | pcs. | | | | | | | | | | | | |
| | *ceiling Accessories* | 1 | lot | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 12.1 | **Concrete Floor Slab (Roofdeck)** | | | | | | | | | | | | | | |
| | Cement | 204 | Bags | | | | | | | | | | | | |
| | Sand | 10 | cu.m | | | | | | | | | | | | |
| | Crust gravel 3/4" class A | 20 | cu.m | | | | | | | | | | | | |
| | RSB 10mm dia. X 6.0m | 392 | pcs | | | | | | | | | | | | |
| | RSB 12mm dia. X 6.0m | 392 | pcs | | | | | | | | | | | | |
| | Tie wire #16 | 100 | kg | | | | | | | | | | | | |
| 13 | **MASONRY WORKS** | | | | | | | | | | | | | | |
| | a. Masonry Works/Wall | | | | | | | | | | | | | | |
| | #6CHB | 2,321 | pcs | | | | | | | | | | | | |
| | Cement | 111 | Bags | | | | | | | | | | | | |
| | Sand | 9 | cu.m | | | | | | | | | | | | |
| | RSB 10mm dia. X 6.0m | 85 | pcs | | | | | | | | | | | | |
| | Tie wire #16 | 9 | kg | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | b. Masonry Works/Parapet | | | | | | | | | | | | | | |
| | #6CHB | 641 | pcs | | | | | | | | | | | | |
| | Cement | 31 | Bags | | | | | | | | | | | | |
| | Sand | 3 | cu.m | | | | | | | | | | | | |
| | RSB 10mm dia. X 6.0m | 31 | pcs | | | | | | | | | | | | |
| | Tie wire #16 | 4 | kg | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 15 | **WATERPROOFING WORKS** | | | | | | | | | | | | | | |
| | Waterproofing Membrane 4mm | 28 | rolls | | | | | | | | | | | | |
| | Primer 20 liters per pail ( 1 coat ) | 5 | pails | | | | | | | | | | | | |
| | Structural Epoxy | 11 | gal/set | | | | | | | | | | | | |
| | LPG Tank | 5 | tanks | | | | | | | | | | | | |
| 15.1 | ***Roof deck concrete Tapping at .067mx10mx16m= 11.0cu.m.*** | | | | | | | | | | | | | | |
| | *cement* | 94 | bags | | | | | | | | | | | | |
| | *sand* | 6 | cu.m | | | | | | | | | | | | |
| | *gravelets 1/2"* | 10 | cu.m | | | | | | | | | | | | |
| | *wire mesh gages 10"x1.5mx3m* | 36 | rolls | | | | | | | | | | | | |
| | *elastameric paint* | 16 | 880 | | | | | | | | | | | | |
| 16 | **Tiles Works** | | | | | | | | | | | | | | |
| | *Granite Floor Tiles 40 x 40* | 840 | pcs | | | | | | | | | | | | |
| | *All Purpose Tile Adhesive @ 25kg/bag* | 255 | Bags | | | | | | | | | | | | |
| | *ABC Grout 2 kg/pck* | 30 | Packs | | | | | | | | | | | | |
| | *Ceramic C.R. Floor Tiles 30 x 30* | 180 | pcs | | | | | | | | | | | | |
| | *ABC Grout 2 kg/pck* | 6 | Packs | | | | | | | | | | | | |
| | *Ceramic C.R. Wall Tiles 30 x 30* | 570 | pcs | | | | | | | | | | | | |
| | *Tiles Adhesive per(20kts)* | 76 | Bags | | | | | | | | | | | | |
| | *ABC Grout 2 kg/pck* | 10 | Packs | | | | | | | | | | | | |
| | *Tile Trim* | 10 | pcs | | | | | | | | | | | | |
| | *Flooring Accessories* | 1 | lot | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 17 | ***SECOND FLOOR/DOOR*** | | | | | | | | | | | | | | |
| | Panel Door, 2.10 x 0.90M | 2 | pcs | | | | | | | | | | | | |
| | Panel door, 2.10 x 0.80M | 2 | pcs | | | | | | | | | | | | |
| | Panel Door, 2.10M x 0.70m | 1 | pc. | | | | | | | | | | | | |
| | Plastic door, 0.60M x 2.10M with complete installation ac | 3 | sets | | | | | | | | | | | | |
| | Steel Door , 0.90M x 2.10M w/ complete accesories | 1 | set | | | | | | | | | | | | |
| | Door Jambs, 2" x 5" | 5 | sets | | | | | | | | | | | | |
| | Loose Pin hinges, 4" x 4" | 8 | pairs | | | | | | | | | | | | |
| | Door Locksets | 8 | sets | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 18 | ***SECOND FLOOR/WINDOW*** | | | | | | | | | | | | | | |
| | *ANALUK ALUMINUM WINDOW FRAME 1.20 M X 2.50 M* | 4 | PCS | | | | | | | | | | | | |
| | *ANALUK ALUMINUM WINDOW FRAME 1.20 M X 1.30 M* | 6 | PCS | | | | | | | | | | | | |
| | *ANALUK ALUMINUM WINDOW FRAME (AWNING TYPE) 0.60 M X 0.6 M* | 3 | PCS | | | | | | | | | | | | |
| | *ANALUK ALUMINUM WINDOW FRAME (AWNING TYPE) 1.750 M X 1.10 M* | 1 | PC | | | | | | | | | | | | |
| | *ANALUK ALUMINUM WINDOW FRAME (AWNING TYPE) 3.350 M X 2.5 M* | 1 | PC | | | | | | | | | | | | |
| | *Tempered Glass 1/2"X 0.30 M X 2.50 M* | 6 | PCS | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 19 | **2ND FLOOR SANITARY:** | | | | | | | | | | | | | | |
| | PVC PIPE ALASCO 4"Ø X 10' SERIES 1000 | 8 | PCS. | | | | | | | | | | | | |
| | PVC PIPE ALASCO 2"Ø X 10' SERIES 1000 | 9 | PCS. | | | | | | | | | | | | |
| | PVC WYE 4"Ø X 4"Ø | 6 | PCS. | | | | | | | | | | | | |
| | PVC WYE 4"Ø X 2"Ø | 11 | PCS. | | | | | | | | | | | | |
| | PVC TEE 4"Ø X 4"Ø | 3 | PCS. | | | | | | | | | | | | |
| | PVC TEE 4"Ø X 2"Ø | 4 | PCS. | | | | | | | | | | | | |
| | PVC ELBOW 4"Ø X 90° | 11 | PCS. | | | | | | | | | | | | |
| | PVC ELBOW 4"Ø X 45° | 7 | PCS. | | | | | | | | | | | | |
| | PVC WYE 2"Ø X 2"Ø | 4 | PCS. | | | | | | | | | | | | |
| | PVC TEE 2"Ø X 2"Ø | 12 | PCS. | | | | | | | | | | | | |
| | PVC ELBOW 2"Ø X 90° | 24 | PCS. | | | | | | | | | | | | |

**PHILIPPINE ATMOSPHERIC, GEOPHYSICAL AND ASTRONOMICAL SERVICES ADMINISTRATION**
**Project Title : Proposed Construction of Apayao Synoptic and Flood Forecasting Warning Center**
**Location : Apayao Ecotourism Sports Complex, Payanan, San Gregorio, Luna, Apayao**
**Subject : BILL OF MATERIALS**

| ITEM | ITEM / DESCRIPTION | QTY. | UNIT | UNIT COST | ESTIMATED DIRECT COST (EDC) | | | DIRECT COST | INDIRECT COST (IC) | | | | | TOTAL AMOUNT | UNIT COST |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | MATERIAL | LABOR | EQUIPMENT | | OVERHEAD | CONTIGENCIES | MISCELLANEOUS | PROFIT | VAT-COMPONENT | | |
| | PVC ELBOW 2"Ø X 45° | 9 | PCS. | | | | | | | | | | | | |
| | PVC P TRAP 2"Ø | 7 | PCS. | | | | | | | | | | | | |
| | PVC CLEAN OUT 4"Ø | 2 | PCS. | | | | | | | | | | | | |
| | PVC COUPLING REDUCER 4"Ø | 2 | PCS. | | | | | | | | | | | | |
| | NELTEX PVC CEMENT 400 CC | 6 | CAN | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| **20** | **WATER LINE:** | | | | | | | | | | | | | | |
| | PVC MOLDEX PIPE 3/4" X 10' | 5 | PCS. | | | | | | | | | | | | |
| | PVC MOLDEX PIPE 1/2" X 10' | 5 | PCS. | | | | | | | | | | | | |
| | PVC ELBOW 3/4" X 90° | 6 | PCS. | | | | | | | | | | | | |
| | PVC ELBOW REDUCER 3/4 X 1/2 | 5 | PCS. | | | | | | | | | | | | |
| | PVC TEE 3/4" | 4 | PCS. | | | | | | | | | | | | |
| | PVC TEE REDUCER 3/4 X 1/2 | 7 | PCS. | | | | | | | | | | | | |
| | PVC ELBOW 1/2" X 90° | 7 | PCS. | | | | | | | | | | | | |
| | PVC ELBOW 1/2" X 90° ONE SIDE THREADED | 11 | PCS. | | | | | | | | | | | | |
| | PVC MALE ADAPTOR 3/4" | 4 | PCS. | | | | | | | | | | | | |
| | PVC FEMALE ADAPTOR 1/2" | 4 | PCS. | | | | | | | | | | | | |
| | GATE VALVE 3/4" | 2 | PCS. | | | | | | | | | | | | |
| | TEFLON TAPE | 5 | PCS. | | | | | | | | | | | | |
| | DOME STRAINER | 4 | PCS. | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| **21** | **FIXTURE:** | | | | | | | | | | | | | | |
| | WATER CLOSET/ COMPLETE FITTINGS | 9 | SETS | | | | | | | | | | | | |
| | LAVATORY/ COMPLETE FITTINGS | 7 | SETS | | | | | | | | | | | | |
| | URINAL/ COMPLETE FITTINGS | 3 | SETS | | | | | | | | | | | | |
| | KITCHEN SINK/ COMPLETE FITTINGS | 1 | SET | | | | | | | | | | | | |
| | SHOWER VALVE/SHOWER HEAD | 3 | SETS | | | | | | | | | | | | |
| | FLOOR STRAINER | 11 | PCS | | | | | | | | | | | | |
| | PVC Solvent @ 400ml/can | 2 | can | | | | | | | | | | | | |
| | Teflon Tape | 6 | rolls | | | | | | | | | | | | |
| | Tissue Holder | 9 | PCS | | | | | | | | | | | | |
| | Soap Holder | 9 | PCS | | | | | | | | | | | | |
| **22** | **CIVIL WORKS** | | | | | | | | | | | | | | |
| | **a. Stairs, Railing** | | | | | | | | | | | | | | |
| | 50mm x 50mm Tubular @ 1.2mm thk | 3 | pcs. | | | | | | | | | | | | |
| | *38mm BI Pipe, Gauge 1.20mm* | 4 | pcs. | | | | | | | | | | | | |
| | 25mm x 50mm Tubular @ 1.20mm thk | 5 | pcs. | | | | | | | | | | | | |
| | Plain Bar 14mm | 7 | pcs. | | | | | | | | | | | | |
| | Welding Rod | 10 | kgs | | | | | | | | | | | | |
| | Cutting Disc, 4" dia | 9 | pcs. | | | | | | | | | | | | |
| | Grinding Disc, 4" dia | 5 | pcs. | | | | | | | | | | | | |
| | Epoxy Primer Paint | 1 | gal | | | | | | | | | | | | |
| | *QDE Paint, Choco Brown* | 1 | gal | | | | | | | | | | | | |
| | Paint Thinner | 1 | gal | | | | | | | | | | | | |
| | Lacquer Thinner | 1 | gal | | | | | | | | | | | | |
| | Assorted Painting accessories | 1 | lot | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | b. Column Footing | | | | | | | | | | | | | | |
| | Cement | 5 | bags | | | | | | | | | | | | |
| | Sand | 1 | cu.m | | | | | | | | | | | | |
| | Crust gravel 3/4" class A | 1 | cu.m | | | | | | | | | | | | |
| | RSB 12mm dia. X 6.0m | 9 | pcs | | | | | | | | | | | | |
| | Tie wire #16 | 1 | kls | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | c. Column @.48cu.m | | | | | | | | | | | | | | |
| | Cement | 5 | bags | | | | | | | | | | | | |
| | Sand | 1 | cu.m. | | | | | | | | | | | | |
| | Crust gravel 3/4" class A | 1 | cu.m | | | | | | | | | | | | |
| | RSB 12mm dia. X 6.0m | 10 | pcs | | | | | | | | | | | | |
| | RSB 10mm dia. X 6.0m | 14 | pcs | | | | | | | | | | | | |
| | Tie wire #16 | 1 | kls | | | | | | | | | | | | |
| | d. lentel BEAM @ landing @.36 cu.m. | | | | | | | | | | | | | | |
| | Cement | 4.0 | bags | | | | | | | | | | | | |
| | Sand | 0.5 | cu.m. | | | | | | | | | | | | |
| | Crust gravel 3/4" class A | 0.5 | cu.m | | | | | | | | | | | | |
| | RSB 12mm dia. X 6.0m | 5.0 | pcs | | | | | | | | | | | | |
| | RSB 10mm dia. X 6.0m | 9.0 | pcs | | | | | | | | | | | | |
| | Tie wire #16 | 2.0 | kgs | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | e. Slab for stair landing @.5 cu.m. | | | | | | | | | | | | | | |
| | Cement | 5.0 | bags | | | | | | | | | | | | |
| | Sand | 1.0 | cu.m. | | | | | | | | | | | | |
| | Crust gravel 3/4" class A | 1.0 | cu.m | | | | | | | | | | | | |
| | RSB 10mm dia. X 6.0m | 36.0 | pcs | | | | | | | | | | | | |
| | Tie wire #16 | 2.0 | kgs | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | f. Stair steps @.81cu.m. | | | | | | | | | | | | | | |
| | Cement | 8.0 | bags | | | | | | | | | | | | |
| | Sand | 1.0 | cu.m | | | | | | | | | | | | |
| | Crust gravel 3/4" class A | 1.0 | cu.m | | | | | | | | | | | | |
| | RSB 10mm dia. X 6.0m | 16.0 | pcs | | | | | | | | | | | | |
| | RSB 12mm dia. X 6.0m | 4.0 | pcs | | | | | | | | | | | | |
| | Tie wire #16 | 2.0 | kgs | | | | | | | | | | | | |
| **23** | **For outside steel stair** | | | | | | | | | | | | | | |
| | a. Excavation | | | | | | | | | | | | | | |
| | a. column footing excavation | 4.0 | cu.m. | | | | | | | | | | | | |
| | For Steel Stair at exit C-Channel 10" x 1/4" x 20' | 4.0 | pcs | | | | | | | | | | | | |
| | b. stail railing | | | | | | | | | | | | | | |
| | 2" x 1/2"x 20' steel Tubular | 15.0 | pcs | | | | | | | | | | | | |
| | c. Column post/G.I. pipes | | | | | | | | | | | | | | |
| | 3" dia. G.I. pipes sched 60 | 4.0 | pcs | | | | | | | | | | | | |
| | d. For chekered steel plates for steps and landing | | | | | | | | | | | | | | |
| | 1/8" x 4' x 8' checkered steel plates | 3.0 | pcs | | | | | | | | | | | | |
| | e. for footing/column pedistal of G.I. post | | | | | | | | | | | | | | |
| | Cement | 5.0 | bags | | | | | | | | | | | | |
| | sand | 1.0 | cu.m. | | | | | | | | | | | | |
| | Crust gravel 3/4" class A | 2.0 | cu.m | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| **23** | **Outside railings (31 LM)** | | | | | | | | | | | | | | |
| | BI Tubular 50mm x 50mm @ 1.20mm thk | 6 | pcs. | | | | | | | | | | | | |
| | *BI Tubular 25mm x 50mm @ 1.20mm thk* | 27 | pcs. | | | | | | | | | | | | |
| | Welding Rod | 10 | kgs | | | | | | | | | | | | |
| | Epoxy Paint Primer | 2 | gals | | | | | | | | | | | | |
| | QDE Paint Choco Brown | 3 | gals | | | | | | | | | | | | |
| | Cutting Disc, 4" | 10 | pcs. | | | | | | | | | | | | |
| | Grinding Disc, 4" | 9 | pcs. | | | | | | | | | | | | |
| | Paint Thinner | 2 | gal | | | | | | | | | | | | |
| | Lacquer thinner | 2 | gal | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| **24** | **PAINTING SECOND FLOOR** | | | | | | | | | | | | | | |
| | Latext Paint | 7 | tins | | | | | | | | | | | | |

**PHILIPPINE ATMOSPHERIC, GEOPHYSICAL AND ASTRONOMICAL SERVICES ADMINISTRATION**
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**Subject : BILL OF MATERIALS**

| ITEM | ITEM / DESCRIPTION | QTY. | UNIT | UNIT COST | ESTIMATED DIRECT COST (EDC) | | | DIRECT COST | INDIRECT COST (IC) | | | | | TOTAL AMOUNT | UNIT COST |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | MATERIAL | LABOR | EQUIPMENT | | OVERHEAD | CONTIGENCIES | MISCELLANEOUS | PROFIT | VAT-COMPONENT | | |
| | Enamel Paint | 5 | gals | | | | | | | | | | | | |
| | Painting Colors | 6 | Lit | | | | | | | | | | | | |
| | Paint Thinner | 6 | gals | | | | | | | | | | | | |
| | Calsomine | 20 | kls | | | | | | | | | | | | |
| | Sand Papers 108 | 5 | yards | | | | | | | | | | | | |
| | Roller Brush 4" w/ Tray | 4 | pcs | | | | | | | | | | | | |
| | Paint Brush 2" | 4 | pcs | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| **25** | ***SEPTIC VAULT (2MX3MX2M)*** | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | CHB 4" | 133 | pcs | | | | | | | | | | | | |
| | Cement | 39 | Bags | | | | | | | | | | | | |
| | Sand | 3 | cu.m | | | | | | | | | | | | |
| | Crust gravel 3/4" class A | 2 | cu.m | | | | | | | | | | | | |
| | RSB 10mm dia. X 6.0m | 72 | pcs | | | | | | | | | | | | |
| | Tie wire #16 | 10 | kg | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| **26** | ***ELECTRICAL SYSTEM*** | | | | | | | | | | | | | | |
| | Panel Board w/ 1-mains 150 AT 2P 1Ø 240VAC 85 KAIC, Bolt-On, 6pcs-15Amp, 7pcs-20Amp, 8 pcs-30Amp 6pcs-40Amp, All Sq. D, type CB | 1 | set | | | | | | | | | | | | |
| | 150Amp Sq D, CB w/ enclosure, NEMA 3R | 1 | set | | | | | | | | | | | | |
| | 2" Ø Service Entrance Cap | 1 | pc. | | | | | | | | | | | | |
| | 3.5mm², THHN/THWN wire, black, @150mtrs/roll | 10 | rolls | | | | | | | | | | | | |
| | 5.5mm², THHN/THWN wire, black, @ 150mtrs/roll | 1 | roll | | | | | | | | | | | | |
| | 8.0mm², THHN/THWN wire,black @ 100mtrs/roll | 4 | rolls | | | | | | | | | | | | |
| | 3.5mm², TW wire, green @150mtrs/roll | 1/2 | roll | | | | | | | | | | | | |
| | 5.5mm², TW wire, green, @ 150mtrs/roll | 4 | rolls | | | | | | | | | | | | |
| | 30.0mm², THHN/THWN wire, black | 100 | mtrs | | | | | | | | | | | | |
| | 30.0mm², TW wire, green | 50 | mtrs | | | | | | | | | | | | |
| | GI wire #16 | 5 | kgs | | | | | | | | | | | | |
| | 3/4" Ø PVC pipe, " standard" orange, 8'/length | 264 | length | | | | | | | | | | | | |
| | 1" Ø PVC pipe, " standard" orange, 8'/length | 66 | length | | | | | | | | | | | | |
| | 2" Ø PVC pipe, " standard" orange, '/length | 38 | length | | | | | | | | | | | | |
| | 2" Ø RSC pipe, 8'/length | 3 | length | | | | | | | | | | | | |
| | Locknut & Bushing for 3/4" Ø PVC,"standard" | 352 | pcs | | | | | | | | | | | | |
| | Locknut & Bushing for 1" Ø PVC,"standard" | 14 | pcs | | | | | | | | | | | | |
| | Locknut & Bushing for 2" Ø PVC,"standard" | 2 | pcs | | | | | | | | | | | | |
| | Locknut & Bushing for 2" Ø RSC pipe | 2 | pcs | | | | | | | | | | | | |
| | 90° Long Elbow for 2" Ø RSC pipe | 2 | pcs | | | | | | | | | | | | |
| | 90° Long Elbow for 2" Ø PVC,"standard" | 2 | pcs | | | | | | | | | | | | |
| | 90° Long Elbow for 3/4" Ø PVC,"standard" | 74 | pcs | | | | | | | | | | | | |
| | Junction Box (Octagon) 2"x2"x2" (plastic) | 63 | pcs | | | | | | | | | | | | |
| | JB(Octagon) -Plate Cover 2"x2"x2"(plastic) | 55 | pcs | | | | | | | | | | | | |
| | Utiliy Box 2"x2"x4" (plastic) | 74 | pcs | | | | | | | | | | | | |
| | Single Pole Switch | 33 | pcs | | | | | | | | | | | | |
| | Three Way Switch | 2 | pcs | | | | | | | | | | | | |
| | Convinience Outlet | 70 | pcs | | | | | | | | | | | | |
| | Range & Pump Outlet | 2 | pcs | | | | | | | | | | | | |
| | Plate Cover (single) | 20 | pcs | | | | | | | | | | | | |
| | Plate Cover (double) | 46 | pcs | | | | | | | | | | | | |
| | Plate Cover (triple) | 4 | pcs | | | | | | | | | | | | |
| | ACU Outlet w/ Plate Cover | 3 | pcs | | | | | | | | | | | | |
| | Lamp Socket (Plastic) | 61 | pcs | | | | | | | | | | | | |
| | Surface Type LED Lamp | 54 | pcs | | | | | | | | | | | | |
| | Spool Insulator Assembly (3 spool/set) | 1 | set | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| **27** | **Electric Service Entrance Post & 3 Manholes(pull box) w/ cover** | | | | | | | | | | | | | | |
| | Cement | 15 | Bags | | | | | | | | | | | | |
| | sand | 1 | cu.m | | | | | | | | | | | | |
| | Crust gravel 3/4" class A | 2 | cu.m | | | | | | | | | | | | |
| | RSB 10mm dia. X 6.0m | 15 | pcs | | | | | | | | | | | | |
| | RSB 12mm dia. X 6.0m | 12 | pcs | | | | | | | | | | | | |
| | Tie wire #16 | 3 | kg | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| **28** | **Flag Pole** | | | | | | | | | | | | | | |
| | Cement | 6 | Bags | | | | | | | | | | | | |
| | sand | 1 | cu.m | | | | | | | | | | | | |
| | Crust gravel 3/4" class A | 1 | cu.m | | | | | | | | | | | | |
| | RSB 10mm dia. X 6.0m | 1 | pcs | | | | | | | | | | | | |
| | RSB 12mm dia. X 6.0m | 5 | pcs | | | | | | | | | | | | |
| | Tie wire #16 | 1 | kg | | | | | | | | | | | | |
| | G.I. Pipe 2" Dia. | 1 | pcs | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | **TOTAL** | | | | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | |