



Republic of the Philippines

DEPARTMENT OF SCIENCE AND TECHNOLOGY

Philippine Atmospheric, Geophysical and Astronomical Services
Administration (PAGASA)

SCOPE OF WORK

Project Title: Repair/Rehabilitation of existing Radar Station and Construction of New Radar Tower.

Project Location: Brgy. Tukon, Basco Batanes

General Requirements

- I. Mobilization and Demobilization
- II. Permits and Clearances
 - The Contractor shall upon authorization of the implementing Unit of PAGASA, make representations with the government agencies concerned to expedite the processing of the necessary permits and certificates such as the following.
 - Building/Plumbing/Sanitary/Electrical/Mechanical Permits.
 - Brgy. Clearance/Locational Clearance/Fire Safety Evaluation Clearance/Fire Safety Clearance/Installation Clearance.
 - Occupancy Permit.
- III. Temporary Facilities
 - The Contractor shall provide and maintain the following.
 - Temporary office and/or quarters for the contractor's project team personnel with water, light, and toilet facilities.
 - Temporary bunkhouse/quarters for the contractor's workforce complete with toilet and bath facilities.
- IV. General Scaffolding and Shoring.

Repair/Rehabilitation of Existing Radar Station Building

- I. Demolition/Removal on existing Radar Tower
 - Exterior Walls (CHB Wall for door opening/covered pathway).
 - Chipping/Cleaning of existing radome pedestal/roofdeck.
 - Foundation Excavation, Common, Rock.
- II. Waterproofing (old bldg. and old concrete tower)
 - Application of flexible cementitious waterproofing.
- III. Repainting Works
- IV. Masonry/Concreting (Covered pathways from existing tower to new concrete tower)

Note: All CHB walls shall be 450psi. Exterior 150mm.

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New Radar Tower

I. Earthworks

II. Concrete Works

Concrete

- Footing Tie Beam (3000 psi at 28 days).
- Columns (3000 psi at 28 days).
- Beams (3000 psi at 28 days).
- Slabs (3000 psi at 28 days).
- Stairs and Roofdeck (3000 psi at 28 days).
- Slab on fill (2500 psi at 28 days).

Reinforcing bars

- Ordinary Beams and Girders Gr.40.
- Columns up to Second Floor Gr.40.
- Columns up to Second Floor to Roof Deck. Gr. 40.

III. Formworks

- Forms for all reinforced concrete shall be adequately supported and braced or tied together to maintain the correct positions and the shapes of poured concrete. Wooden forms shall be constructed sufficiently tight to prevent bulging of concrete members upon pouring or leaking/drainage of water during curing.

IV. Masonry Works

Note: All CHB walls shall be 450psi. Exterior 150mm and Interior 100mm.

V. Finishes

Note: Tiles shall be standard grade. Color and pattern shall be first approved by the PAGASA Engineer.

- Floor
 - 600mm. x 600mm. unglazed floor tiles.
 - 300mm. x 300mm. unglazed floor tiles.
- Wall.
 - Plain Cement Finish.
- Ceiling

Note: Use 6mm. thick ficem board on metal furring.
- Stairs.
- Stainless Steel Railings.

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VI. Fabricated Materials and Hardware

- Doors.

Location	Specifications
D-1 (Ground Floor)	1-set, Analok Aluminum Single Swing Door w/ 6mm. thick clear glass on aluminum frame (0.9m. x 2.1m.), complete with lockset and other accessories.
D-2 (Ground Floor to Fifth Floor Level)	10-sets, Hollow core flush door with 6mm. thick marine Plywood bpth face on wood jamb (0.8m. x 2.1m.), complete with lockset and other accessories.

- Windows

Location	Specifications
W-1 (Ground Floor to Fourth Floor Level)	16-sets. Glass Blocks Panel
W-2 (Fifth Floor Level)	11-sets, Analok Aluminum awning window with 6mm. thick clear glass on aluminum frame. (1.2m. x 1.2m.), complete with lockset and other accessories.
W-3 (Fifth Floor Level)	1-set, Analok Aluminum Awning/Swing window with 6mm. thick clear glass on aluminum frame. (1.2m. x 1.2m.), complete with lockset and other accessories.
W-4	4-sets Analok aluminum awning window with 6mm. thick clear glass on aluminum frame. (0.6m. x 1.2m.), complete with lockset and other accessories.

- Door Jambs.
- Hardware.
 - Door Lock (Heavy Duty).
 - Hinges (Heavy Duty).

VII. Application of Flexible Cementitious Waterproofing

VIII. Painting works

- Wall (Plain Cement).
- Ceiling (Plain Cement).
- Ceiling (Ficem Board).
- Door (Duco Finish).
- Door Jambs (Duco Finish).

IX. Electrical Works including Fire alarm system

- Conduit Works.

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- Wire and Wiring devices.
- Lighting fixtures and lamps.
- Panel boards and cabinets.
- Fire alarm system (UL Listed).
- Lightning Protection System.
- Installation of Fire Protection System and Dry Standpipe
 - Pipes and fittings.
 - Fire Hose Cabinets and Accessories.
 - Valves and Devices.

X. Mechanical Works

- Supply, Delivery, Installation, Testing and Commissioning of Air-conditioning.
 - Window type Air-conditioning, 2HP, 220V, Single Phase 60hz.

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