

Project Title : **REHABILITATION OF TAGAYTAY PAGASA RADAR BUILDING AND STEEL TOWER**

Location : **TAGAYTAY PAGASA DOPPLER RADAR STATION**
Peoples Park in the Sky, Barangay Dapdap West, Tagaytay City

Subject : **PROJECT SCOPE OF WORK AND CONSTRUCTION INSTRUCTIONS**

A. GROUND FLOOR OF THE RADAR BUILDING (inside)

- A.1. Improve/repair/rehabilitate the existing plumbing/sewer and waterline pipes and fixtures; watercloset, lavatory, shower and floor drain.
- A.2. Replace the dilapidated plastic doors at comfort room and electrical room. All plastic doors and fixtures to be replace shall be a high quality materials.
- A.3. Replace the existing dilapidated main door. (verify the approved shop drawing for the door details).
- A.4. Cover the existing hole for exhaust fan and make a hole for blower at the bottom of the existing stairway landing. (Verify the location on shop drawing).
- A.5. Fabricate and install new stainless blower hood including the installation of new blower.
- A.6. Replace all electrical fixtures, lighting and convenience outlets.
- A.7. Remove the existing floor tiles at comfort room flooring and wall including the flooring at ground floor and replace with new tiles.
- A.8. Replace the existing stairway handrails and ballustrades with stainless square/ tubular, 50mm size for handrails and 25mm size for ballustrades from ground floor to roofdeck stairs. All of this materials are square stainless (304) polished tube. For the fabrication and installation of stairway ballustrades and fixtures specially in jointing works, it shall be noted that all joints shall be welded using MIG/TIG welding machine. For this work, it shall be started from ground floor up to the roof deck.
- A.9. Remove and replace the existing ground floor broken ceiling boards including the replacement of dilapidated comfort room ceiling joists and boards.
- A.10. Repainting works, ceiling and interior walling.

B. SECOND FLOOR OF THE RADAR BUILDING (INSIDE)

- B.1. Remove the existing dilapidated floor tiles and replace with new tiles. This includes to locate the leaks at flooring and make repairs to stop the said leaks. Tiling works shall be install the whole second floor area including comfort room and service area, the stairway steps.
- B.2. Repair/rehabilitate the existing comfort room by replacing all comfort room fixtures, watercloset, lavatory, floor drain, sewer and waterline pipes and plastic door.
- B.3. Remove and replace the existing dilapidated windows. Verify the shop drawing for the details of new windows.
- B.4. Rehabilitate all electrical wirings and fixtures for lightings and convenience outlets and switches.
- B.5. Replace the damaged partition entrance sliding door lockset.
- B.6. Repair/rehabilitate the existing dilapidated ceiling.
- B.7. Repainting works.

C. THIRD FLOOR OF THE RADAR BUILDING (Inside)

- C.1. Remove/demolish the existing comfort room including fixtures to widen the space of radar control room.

- C.2. Remove the dilapidated floor tiles of the whole third floor and replace with new tiles. This includes service area, the flooring of the demolished area and stairway steps.
- C.3. Improve the wall where the set of aircon installed to stop the leaks of the said existing wall.
- C.4. Remove the existing dilapidated windows. Verify the shop drawing for the details of new windows to be replace.
- C.5. Replace the damaged partition entrance sliding door lockset.
- C.6. Rehabilitate the existing electrical system of the whole third floor including the replacement of electrical fixtures.
- C.7. Improve the ceiling and walling of the demolish comfort room and at radar control room.
- C.8. Repainting works.

D. AT ROOF DECK OF THE RADAR BUILDING

- D.1. Improve/rehabilitate the stairs going to roofdeck by removal the extended slab where the right side walling being attached. Improve also the existing stairway cover. Verify the shop drawing the set up of the said cover.
- D.2. Improve/rehabilitate the existing waterproofing of wall side to eliminate the loose of waterproofing membrane from the parapet wall. Verify to the attached picture.
- D.3. Replace the existing door going to roof deck. Verify the shop drawing for the details of door (D-2)
- D.4. Repainting works.

E. REHABILITATION/IMPROVEMENT OF RADAR STEEL TOWER

- E.1. Remove the existing dilapidated/rusted cable messenger rack and replace with new rack using a fabricated stainless (304) angular bars. Verify the shop drawing for the details.
- E.2. Install a new cable homerun pipes including cable pipe fixtures.
- E.3. Improve the existing manladder going to radar antenna by constructing an steel stairway starting at roof deck to eight floor of the radar tower. Verify to the shop drawing for the details of the proposed steel stairway.
- E.4. Remove all rusts molds and other imperfections present on the steel tower surfaces.
- E.5. Remove and clean outside surface of the radome panels and apply sealant to all radome panel joints using a high quality sealant.
- E.6. Repainting the whole steel radar tower and steel stairway (one coat of steel primer and three (3) coatings of tower steel paints. All paints shall be a high quality and conforms to the paints used for steel tower.

F. OTHERS

- F.1. Fabrication and install an emergency/fire escaped ladder using an stainless angular bars (304) from the ground floor (2.00M) from the ground up to roof deck.
- F.2. Improve outside wall of the building by installation of tiles of the existing exposed columns, bottom wall and headers of the windows and repainting the whole building. Before any application of paints, make it sure that the paint to be applied shall be hydrophobic or paint material that could prevent any penetration of molds and fungi to the existing wall surfaces. Before any application of paints, the wall surfaces shall be cleaned thoroughly and applied with high grade exterior skimcoat to insure its

- smoothness.
- F.3. Improve the existing concrete canopy. Verify to the shop drawing for the proposed canopy details.
 - F.4. Improve the existing front walling by installation of tiles around the main door. Verify the proposed tiling works front wall of the shop drawing for the details.
 - F.5. Improve the existing planter at the front of the radar building.
 - F.6. Improve the radar web guide support by fabrication of web guide support from the roof deck up to the base/underfloor of the radar radome base.

G. Rain Water System (Rainfed water tank)

- G1. Fabrication/installation of water tank framing with the use of 50mm stainless angular bars.
- G.2. Installation of stainless water tank including pipings and fittings.

G. FOR THE CONSTRUCTION/REHABILITATION REQUIREMENTS

- G.1. Before the start of the project, it should be noted that the contractor shall provide safety precaution by constructing a temporary fence, 3.00 meters from outside wall of the building. All materials and expenses shall be shouldered by the contractor.
- G.2. During construction, the contractor shall provide cover (construction net or GI roofing sheets) safety purposes. All materials and expenses shall be shouldered by the contractor.
- G.3. All workers shall equipped with safety construction gadgets/harnesh specially during the rehabilitation of radar steel tower. All the above gadgets shall be provided or shouldered by the contractor. The contractor shall hire or have a Safety Engineer to look into the safety of the workers.
- G.4. Cleanliness and safety shall be addressed every day during the on-going construction activities and make it sure that the contractor shall have a good communication between the end-user for the smooth and to addressed any problems being encountered of the project.
- G.5. After the completion of the project, the contractor shall turn-over the said project to the duly authorized PAGASA personnel/Chief of the station for his/her acceptance.

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