

**CALAMBA WATER DISTRICT**  
Engineering Department

**SCOPE OF WORKS AND SPECIFICATIONS**

**PROJECT :** **PROPOSED REPAIR AND REPAINTING OF OVERHEAD TANKS  
STEEL GATES AND FENCES**

**LOCATION:** San Cristobal Garden Homes, Villa Palao Banlic P1, Villa Palao Banlic P2,  
Southville P1, Southville P2, Aztec Subd Looc, Villa Consolacion Looc, and  
Laguna Hills Pansol, Calamba City, Laguna

**I. SCOPE OF WORKS**

**Supply of labor, materials and appurtenances to complete the repair of structural parts  
and repainting of overhead tanks, steel gates and fences.**

**1) Mobilization**

- a) Mobilization of materials, tools, equipment, service vehicle, barricades, signboards and safety PPE's
- b) Installation of temporary facility (Bunk-house) and scaffolding works

**2) Retrofitting of Overhead Tank and its structural parts**

- a) Replacement of steel base plates (4 sets) and columns (parts only)
- b) Supply and install of steel horizontal bracing angle bar, 3.0"x3.0"(0.25")thick or as specified in the drawings

**3) Repair and Repainting of Steel Gates and Fences**

- a) Repair and repaint steel frames and steel matting of steel gate and fence or as specified in the drawing

**4) Rust Removing / Cleaning Works**

- a) Scrape / remove of flaking, peeling paint, rust and scales by wire brushing or scraping. Sand thoroughly then dust off.
- b) Remove rust of interior wall, exterior wall, base plates, cross braces, horizontal braces, tension rods, gusset plates and riser pipes
- c) Treat rusty areas with metal treatment solution and dry for 24 hours.

**5) Repainting of overhead tank shell, all of its structural parts, steel gate and fence (Guilder or Sphero)**

- a) Interior wall – Epoxy Primer White or food grade – 1<sup>st</sup> coat
- b) Interior wall – Epoxy Enamel White or food grade 2<sup>nd</sup> & 3<sup>rd</sup> coat
- c) Exterior wall, Braces, tension rods, gusset plates, base plates and riser pipes – Prime Guard 1<sup>st</sup> coat
- d) Exterior wall, Braces, tension rods, gusset plates, base plates and riser pipes – Aqua Epoxy Gray 2<sup>nd</sup> coat
- e) Exterior wall, Braces, tension rods, gusset plates, base plates and riser pipes – Silver Finish Aluminum Paint 3<sup>rd</sup> coat
- f) Exterior wall, Braces, tension rods, gusset plates, base plates and riser pipes – 3<sup>rd</sup> coat

*Painting of Blue color Epoxy Paint*

- g) Riser pipes – 1<sup>st</sup> coat prime guard
- h) Riser pipes – Aqua Epoxy Blue 2<sup>nd</sup> & 3<sup>rd</sup> coat

**Note:** Follow Painting Procedure as per Manufacturer's Recommendation

**Demobilization**

- a) Dismantling of temporary facility and scaffolding materials
- b) Removing of barricades and signboards
- c) Removing of temporary facility and housekeeping

Prepared by:

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