

CALAMBA WATER DISTRICT
Engineering Department

SCOPE OF WORKS AND SPECIFICATIONS

PROJECT : **PROPOSED REPAIR AND REPAINTING OF PUMPING STATIONS WITH OVERHEAD TANKS AND CONCRETING OF SLABS/ PAVEMENTS**

LOCATION: *Palacio Real Brgy. Makiling, Woodlands Subdivision Brgy. Makiling , Glenwoods Subdivision Brgy. Turbina, Laguna Hills Brgy. Pansol and Villa La Prinza P1 & P2 Brgy. Prinza, 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 and concreting of pavements.

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. Palacio Real

- a. *Replacement and repainting of any possible damaged of OHT structural parts*

B. Woodlands

- a. *Replacement and repainting of 4 sets steel base plates*
- b. *To expose concrete pedestals*
- c. *Repair, cleaning, rust removal of structural members, catwalk, exterior wall of OHT*

C. Glenwoods

- a. *Replacement and repainting of 6 sets steel base plates*
- b. *Replacement of 4pcs. lateral supports*
- c. *Replacement of deteriorated cage ladder and railings*
- d. *Repair, cleaning, rust removal of structural members, catwalk, exterior wall of OHT*

D. Laguna Hills Pump 1

- a. *Replacement and repainting of 6 sets steel base plates*
- b. *Replacement of deteriorated cage ladder, tank ladder and cover*
- c. *Repair, cleaning, rust removal of structural members, catwalk, exterior wall of OHT*

E. Villa La Prinza Pump 1 & 2

- a. *Replacement and repainting of 4 sets steel base plates and parts of columns of VLP P2*
- b. *Replacement of 8pcs lateral supports of VLP P2*
- c. *Construction of 4 sets concrete pedestals of VLP P2 only*
- d. *Repair, cleaning, rust removal of structural members, catwalk, exterior wall of OHT*

3) Concreting of Concrete Slabs

A. Villa La Prinza Pump 1

- a. *Concreting of 0.15m thick x 6.0m x 6.0m slab / pavements of VLP P*

B. Villa La Prinza Pump 2

- a. *Concreting of 0.15m thick x 6.0m x 6.0m slab / pavements of VLP P2*

4) Repair and Repainting of Pump House

A. Glenwoods

- a. Repair and repainting of ceiling, gutter and downspout of pump house. (parts only)

5) 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.

6) Repainting of overhead tank wall, all of its structural parts and concrete pedestals (Guilder or Sphero)

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

Painting of Blue color Epoxy Paint

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

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