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*ISO Certificate Registration No.* **PHP QMS**

PAB ACCREDITED QMS CERTIFICATION BODY
MSA - 008

***Technical Services Department***

***SCOPE OF WORKS AND SPECIFICATIONS***

*PROJECT :* ***SUPPLY OF LABOR AND MATERIALS FOR THE REPAIR AND REPAINTING OF OVERHEAD TANKS, STEEL GATES AND CONCRETING OF FLOOR SLABS / PAVEMENTS***

*LOCATION: Asiacon 1 Pump 1, Asiacon 1 Pump 2, Palao Pump 1, Palao Pump 2,Manfil Pump, Asiacon Phase 2, MCDC Pump 1, MCDC Pump 2 Canlubang, Majada-In Pump 1, Major Homes Sirang Lupa and GK Majada, Calamba City*

## *I. SCOPE OF WORKS*

***Supply of labor, materials and appurtenances to complete the repair of structural parts and repainting of overhead tanks (interior and exterior walls), repair of Steel Gates 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. Asiacon 1 Pump 1***
*a. Repainting of Overhead Tank and its structural supports*
*b. Repair and repainting of cage ladder*
*c. Repair of tension rods – 3 sets*
*d. Repair, cleaning, rust removal, repainting of structural members, catwalk, exterior wall of OHT*

***B. Asiacon 1 Pump 2***
*a. Repainting of Overhead Tank and its structural supports*
*b. Repainting of discharge pipes*
*c. To expose base plates and concrete pedestals*
*d. Repair, cleaning, rust removal, repainting of structural members, catwalk, exterior wall of OHT*
*e. To remove existing boulders*

***C. Palao Pump 1***
*a. Repair and repainting of 4 sets steel base plates*
*b. Repainting of Overhead Tank and its structural supports*
*c. Replacement of deteriorated cage ladder and railings*
*d. Repair, cleaning, rust removal of structural members, catwalk, exterior wall of OHT*

***D. Palao Pump 2***
*a. Replacement and repainting of 4 sets steel base plates*
*b. Repainting of Overhead Tank and its structural supports*
*c. Repair, cleaning, rust removal, repainting of structural members, catwalk, exterior wall of OHT*

***E. Manfil Pump***
*a. Repainting of Overhead Tank and its structural supports*
*b. Replacement and repainting of 4pcs base plates*
*c. Repainting of discharge pipes*
*d. Repair, cleaning, rust removal of structural members, catwalk, exterior wall of OHT*

***F. Asiacon Ph2***

a. *Replacement and repainting of 4 sets steel base plates*
b. *Repainting of Overhead Tank and its structural supports*
c. *Repair, cleaning, rust removal of structural members, catwalk, exterior wall of OHT*

***G. MCDC Pump 1***

a. *Replacement and repainting of 4 pcs. horizontal braces*
b. *Repainting of Overhead Tank and its structural supports*
c. *Repair, cleaning, rust removal of structural members, catwalk, exterior wall of OHT*

***H. MCDC Pump 2***

a. *Repainting of Overhead Tank and its structural supports*
b. *Repair and repainting of cage ladders*
c. *Repair, cleaning, rust removal of structural members, catwalk, exterior wall of OHT*
d. *Repainting discharge pipes*

***I. Majada In Pump 1***

a. *Repainting of Overhead Tank and its structural supports*
b. *Repair, cleaning, rust removal of structural members, catwalk, exterior wall of OHT*

***J. Major Homes Sirang Lupa***

a. *Repainting of Overhead Tank and its structural supports*
b. *Repair, cleaning, rust removal of structural members, catwalk, exterior wall of OHT*

***K. GK Majada***

a. *Repainting of Overhead Tank and its structural supports*
b. *Repair, cleaning, rust removal of structural members, catwalk, exterior wall of OHT*

***3) <u>Concreting of Floor Slabs with 10cm thickness</u>***

***A. Asiacon 1 Pump 1***

*Dimension: (8.50m x 8.65m) end to end; Thickness of floor slab = 10cm*
*Area: 73.53 Sq.m.*
*Volume of Concrete: 7.35 Cu.m.*
*Note: Level elevation*

***B. Asiacon 1 Pump 2***

*Dimension: (8.00m wall to pedestal x 9.40m wall to pedestal); Thickness of floor slab = 10cm*
*Area = 75.20 Sq.m.*
*Volume of Concrete = 7.52 Cu.m.*
*Note: Elevation is level*

***C. Palao Pump 1***

*Dimension: (9.70m x 9.70m) End to end of concrete pedestal; Thickness of floor slab = 10cm*
*Area:94.09 Sq.m.*
*Volume of Concrete:9.41 Cu.m.*
***Note:*** *Elevation is level*

***D. Palao Pump 2***

*Dimension: (9.90m x 9.90m)+(2.00 x 2.50 Genset Side)*
*Thickness of floor slab: 10cm*
*Area = 103.01 Sq.m.*
*Volume of Concrete: 10.30Cu.m.*
***Note:*** *Elevation is level*

***E. Manfil Pump***

*Dimension: (9.70m wall to pedestal x 10.30wall to pedestal); Thickness of floor slab = 10cm*
*Area = 99.91 Sq.m.*
*Volume of Concrete = 9.99 Cu.m.*
***Note:*** *Elevation is level*

***F. Asiacon Phase 2***

*Dimension: (9.00m pedestal to pedestal x 11.15 wall to pedestal);*
*Thickness of floor slab = 10cm*
*Area = 100.35 Sq.m.*
*Volume of Concrete = 10.04 Cu.m.*
***Note:*** *Elevation is level*

***G. MCDC Pump 1***
*Dimension: (9.87m wall to genset x 10.20mwall to pedestal); Thickness of floor slab = 10cm*
*Area = 100.674 Sq.m.*
*Volume of Concrete = 10.07 Cu.m.*
***Note:*** *Elevation is level*

***H. MCDC Pump 2***
*Dimension: (8.90m x 8.90m) concrete pedestal to pedestal; Thickness of floor slab = 10cm*
*Area = 79.21 Sq.m.*
*Volume of Concrete = 7.92 Cu.m.*
***Note:*** *Elevation is level*

***I. Majada In Pump 1***
*Dimension: (8.50m x 8.50m) From end to end of concrete pedestal;*
*Thickness of floor slab = 10cm*
*Area = 72.25 Sq.m.*
*Volume of Concrete 7.23 Cu.m.*
***Notes:*** *(1.) Elevation is level*
*(2.) To cut existing soil in order to expose the existing base plates of oht*
*(3.) To expose existing 4 sets base plates*
*(4.) To install concrete stair from steel gate going to oht area*

***J. Major Homes Sirang Lupa***
*Dimension: (9.45m x 8.98m) – (1.86 x 2.40) wall to wall; Thickness of floor slab = 10cm*
*Area = 80.38 Sq.m.*
*Volume of Concrete = 8.04 Cu.m.*
***Note:*** *Construct a concrete stair with 3 steps from steel gate with cut & fill on existing soil*

***K. GK Majada***
*Dimension: (6.80m x 6.80m) From end to end of concrete pedestal;*
*Thickness of floor slab = 10cm*
*Area = 46.24 Sq.m.*
*Volume of Concrete = 4.62 Cu.m.*
*Note: Elevation is level*

***4) Repair and Repainting of Steel Gate***

***A. Asiacon 1 Pump 2***
*Repair and repainting existing steel gate, framing and steel matting*

***B. Palao Pump 1***
*Repair and repainting existing steel gate, framing and steel matting*

***C. Palao Pump 2***
*Repair and repainting existing steel gate, framing and steel matting*

***D. Manfil Pump***
*Repair and repainting existing steel gate, framing and steel matting*

***E. Asiacon Ph2***
*Repair and repainting existing steel gate, framing and steel matting*

***F. MCDC Pump 2***
*Repair and repainting existing steel gate, framing and steel matting*

***G. Majada In Pump 1***
*None*

***H. Major Homes Sirang Lupa***
*Repair and repainting existing steel gate, framing and steel matting*

## *II. SPECIFICATIONS*

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

*A. Interior wall – Epoxy Primer White (Food grade material) – 1st coat*
*B. Interior wall – Epoxy Enamel White (Food grade materials) 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*

| *Prepared by:* | *Recommending approval by:* | *Approved by:* |
|---|---|---|
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