

PROJECT FEATURE**PROJECT TITLE :** BULADO PORT EXPANSION PROJECT**LOCATION :** Port of Bulado, Brgy. Bulado, Guihulngan, Negros Oriental**A. PORT OPERATIONAL AREA**

- 1 Chip-off existing RC curb (118 l.m.)
- 2 Remove existing lamp post (2 no.) and existing mooring bollard and fenders (22 no.)
- 3 Excavation and backfilling of fill materials for rock installation, catch drain manhole, reinforced concrete pipe culvert, lamp post foundation and pedestal post (988 cu.m.)
- 4 Remove portion of existing rock containment prior to placing of concrete blocks and retaining wall (20
- 5 Supply and deliver to site steel pipe sheet piles (Z-type, hot rolled, Sx23596 cm3/m, steel grade = S355) including pile connectors (387 m.t.) and steel pipe anchor piles (A252 Grade 2, 500mmØ x 13mm thk) (154 m.t.) including installation of reinforcing cylinder band at the tip of steel pipe piles (34 no.)
- 6 Handle, pitch and drive steel sheet piles (Z-type) (3,256 l.m.) and steel pipe anchor piles (500mmØ x 13mm thk) (986 l.m.) including extraction of clogged materials (36 cu.m.) and cutting of SPP up to required elevation (182 no.)
- 7 Supply and install steel channel/wale, dowel bars, steel plates, bolts and other accessories/incidentals for steel waling (11,083 kg.)
- 8 Supply and install reinforcing steel cage for steel pipe piles (6,205 kg.)
- 9 Supply and place 3,500 psi concrete filler for steel pipe piles (24 cu.m.)
- 10 Supply and place sand fill for steel pipe anchor piles (36 cu.m.)
- 11 Supply and install 55mm Ø tie-rod (steel 45) including accessories (70 sets)
- 12 Supply and place 3,500 psi. concrete for retaining wall, drainage outfall, anchor pile wall, pedestal post and lamp post foundation (772 cu.m.)
- 13 Supply and install steel reinforcement for retaining wall, drainage outfall, anchor pile wall, pedestal post and lamp post foundation (51,623 kg.)
- 14 Supply and install pre-cast concrete blocks (15 sets)
- 15 Supply and place 1,000 kg. armour rocks (804 cu.m.) and 50-100 kg. core rocks (4,087 cu.m.)
- 16 Supply and install geotextile fabric (3,957 sq.m.)
- 17 Supply and place sand and gravel fill (12,780 cu.m.)
- 18 Supply, spread and compact aggregate sub-base course (5,428 cu.m.)
- 19 Supply, spread and compact aggregate base course (816 cu.m.) including gravel bedding for RC curb, lamp post foundation and duct bank (26 cu.m.)
- 20 Construct portland cement concrete pavement (300mm thk) including dowel bars and construction joint (4,081 sq.m.)
- 21 Construct perimeter fence in CHB wall with barbed wire in 50mm Ø G.I. pipe frame (144 l.m.)
- 22 Construct catch drain manhole including concrete cover and angular frame (16 set)
- 23 Supply and install reinforced concrete pipe culvert 610mm Ø (210 l.m.)
- 24 Construct port lighting system including all appurtenances (1 lot)

B. R.C. WHARF AND ACCESS TRESTLE

- 1 Supply and deliver to site steel pipe piles (A252 Grade 2, 500mm Ø x 13mm thk) (354 m.t.)
- 2 Application of polyurethane external coating and mastic filler for steel pipe piles (Polyurethane : 1,500 microns dry film thickness or equivalent) (1,100 sq.m.)
- 3 Handle, pitch and drive vertical steel pipe piles (500mm Ø x 13mm thk) (1,120 l.m.) and batter steel pipe piles (500mm Ø x 13mm thk) (1,148 l.m.) including supply and installation of reinforcing cylinder band at the tip of steel pipe piles (56 no.), extraction of clogged materials (77 cu.m.) and cutting of driven SPP up to required elevation (56 no.)
- 4 Splicing 500 mm dia steel pipe pile (56 no.)
- 5 Supply and install reinforcing steel cage for steel pipe piles (37,357 kg.)
- 6 Supply and place 3,500 psi concrete filler for steel pipe piles (153 cu.m.)
- 7 Supply and install steel reinforcement for the superstructure (41,224 kg.)
- 8 Supply and place 3,500 psi concrete for the superstructure (275 cu.m.)
- 9 Supply and install hot-dipped galvanized BWT 100mm x 12mm for construction joint-1, including dowel bars (42 l.m.) and hot-dipped galvanized angle bar, 100mm x 100mm x 10mm for construction joint-2, including dowel bars (84 l.m.)
- 10 Supply, deliver to site and install Rubber Dock Fender (V500H x 1,500L) including accessories (7 sets)
- 11 Supply, deliver to site and install Mooring Bollard (35-Tons, T-head) including accessories (4 sets)

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| APPROVED BUDGET FOR THE CONTRACT : | Php | 285,591,854.79 |
| SOURCES OF FUNDING : | PPA Corporate Fund | |
| TOTAL PROJECT COST : | Php | 322,718,795.91 |
| PROJECT DURATION : | 540 Calendar Days | |