PROJECT FEATURE

PROJECT TITLE	:	**MANGUINO-O PORT IMPROVEMENT AND RESTORATION PROJECT**
LOCATION	:	**Port of Manguino-o, Calbayog, Samar**

A. REMOVAL, DISPOSAL AND EXCAVATION WORKS

1 Demolition of existing RC deck (540 sq.m.)
2 Cutting of existing sheet piles to required elevation (76 nos.)
3 Removal of existing mooring bollard and turn-over to the authority as directed by the Engineer (6 nos.)
4 Removal of existing rubber dock fender and turn-over to the authority as directed by the Engineer (6 nos.)

B. CONSTRUCTION OF RC PIER

1 Supply and deliver to site steel pipe piles (600mm dia. x 13mm thk, ASTM A252/JIS A5525) (1,024 m.t.)
2 Supply and install 9mm thk reinforcing band tip for steel pipe piles (148 nos.)
3 Application of polyurethane external coating for the steel pipe piles (4,464 sq.m.)
4 Splice steel pipe piles (600mm dia.) including accessories as directed by the Engineer (148 nos.)
5 Handle, pitch and drive 600mm dia. vertical (3,312 l.m.) and batter (2,128 l.m.) steel pipe piles
6 Removal of clogged materials inside the driven steel pipe piles (207 cu.m.)
7 Supply and install reinforcing steel cage for the steel pipe piles (172,880 kgs.)
8 Supply and place 3,500 psi concrete filler inside the steel pipe piles (689 cu.m.)
9 Cutting of driven 500mm dia. Steel pipe piles up to cut-off elevation including turn-over of excess materials to the authority (148 nos.)
10 Supply and installation of reinf. steel bar for the superstructure (129,428 kgs.)
11 Supply and place 3,500 psi concrete for the superstructure (893 cu.m.)
12 Suppy and install (L 100mm x 100mm x 10mm), hot-dipped galvanized construction joints including dowel bars (18 l.m.)
13 Supply, delivery and installation of Rubber dock fenders (V-type, 500H x 1500L) including accessories (20 sets)
14 Supply, delivery and installation of mooring bollards (35 Tons, Tee-head) including accessories (20 sets)

C. REHABILITATION OF RC PIER

1 Supply and installation of reinf. steel bar for the superstructure (48,492 kgs.)
2 Supply and place 3,500 psi concrete for the superstructure (323 cu.m.)
3 Suppy and install (BWT 100mm x 12mm) hot-dipped galvanized construction joints including dowel bars (18 l.m.) and (L 100mm x 100mm x 10mm), hot-dipped galvanized construction joints including dowel bars (18 l.m.)
4 Supply, delivery and installation of Rubber dock fenders (V-type, 500H x 1500L) including accessories (6 sets)
5 Supply, delivery and installation of mooring bollards (35 Tons, Tee-head) including accessories (6 sets)

D. REIMBURSABLE ITEMS

1 Secure approval of environmental compliance certificate (ECC) including application, clearance and other necessary documentary requirements (1 lot)

APPROVED BUDGET FOR THE CONTRACT	:	**Php**	**250,681,926.90**
SOURCES OF FUNDING	:	**PPA Corporate Fund**	
TOTAL PROJECT COST	:	**Php**	**279,986,644.15**
PROJECT DURATION	:	**630 Calendar Days**	