Voltage 220VAC

PANEL BOARD

Panel board shall conform to the existing panel board as shown in the approved plans.

SINGLE ANGLE BAR FLOODLIGHT STEEL TAPERED LAMP POST

Lamp Post shall be 6.0 m ht. single angle bar steel tapered, furnished installed and tested as shown on the approved plans. The post/s shall be dimensioned for a wind velocity of 185 km/hr. It shall be locally fabricated or manufactured. The post shall be Hot –Dipped Galvanized, prime-coated with red lead and shall be painted at site with the final coating preferably aluminum paint to be approved by the Engineer.

EXECUTION

INSTALLATION

Lamp Post shall be installed as shown on the approved plans.

Pole Setting: Depth as shown on the approved plans.

Construction of reinforced steel lamp post foundation shall be in accordance with the shape and dimensions as shown on the approved plans.

Excavations / backfilling required before /after installation of lamp post with the trench shall conform to the provisions of Earthwork and Concrete construction.

WORKMANSHIP

The work throughout shall be executed in the best and most thorough manner under the direction of and at the satisfaction of the Registered Electrical Engineer or Master Electrician, who will interpret the intent meaning of the drawings and specification and shall have the power to reject any work and materials which in his judgment, are not in full accordance therewith.

TESTING OPERATIONS

When the electrical installation is completed, the Contractor shall test the installed electrical materials and equipment in the presence of Registered Electrical Engineer or Master Electrician. The system shall be free from any defects, shorts or grounds. The Contractor at no extra cost shall furnish all necessary instruments and personnel required for the testing.

GUARANTEE

Upon completion and before final acceptance of the work, the Contractor shall furnish the Engineer a written guarantee stating that all works executed are free from defects on materials and workmanship. The guarantee shall be for a period of one year from the date of the final acceptance. Any work that becomes defective during the said period shall be corrected / replaced by the Contractor at his own expense in a manner satisfactory to the Authority.

ITEM 15 : PROJECT BILLBOARD

SPECIFICATION

The Project Billboard shall be installed at location(s) designated by the Engineer.

The size and specifications of materials for the standard billboard shall be 4ft. x 8ft. (1,200mm x 2,400mm) using ½ inch (12mm) marine plywood or tarpaulin poster on 3/16 inch (5mm) marine plywood.

Project billboards shall not contain Name(s) and/or picture(s) of any personages.

See attached drawings for further details of the standard billboard.

STANDARD PROJECT BILLBOARD

DISPLAY AREA
(TARPAULIN ON 1200 x 2400 x 5 MARINE PLYWOOD)
50 x 50 HORIZONTAL GOOD LUMBER
50 x 75 VERTICAL GOOD LUMBER
50 x 50 WOODEN STAKE
GROUND LEVEL
1200
1500
500
2400
FRONT ELEVATION (OPTION 2)
DISPLAY AREA
(1200 x 2400 x 12 MARINE PLYWOOD)
50 x 50 HORIZONTAL GOOD LUMBER
50 x 75 VERTICAL GOOD LUMBER
GROUND LEVEL
1200
1500
500
2400
FRONT ELEVATION (OPTION 1)
DISPLAY AREA
50 x 50 HORIZONTAL GOOD LUMBER
50 x 75 VERTICAL GOOD LUMBER
50 x 50 WOODEN STAKE
GROUND LEVEL
1200
1500
500
1000
TYPICAL FRAME ELEVATION
BILLBOARD FRAME
(NOT TO SCALE, ALL DIMENSIONS ARE IN MILLIMETERS)

"To all our contractors, suppliers, and service providers, all we ask is for you to

SPEED UP

your contracts and **FINISH**

AHEAD of schedule,

WITHOUT SACRIFICING

QUALITY

of work, and **REASONABLENESS OF COST** agreed upon. Gawin niyo 'yan at hindi tayo maghihiwalay ng landas (Do that and we will not part ways)."

A Message from
DOTr Secretary Arthur Tugade

@DOTrPH @DOTrPH www.dotr.gov.ph

ITEM 16 : SAFETY SIGNAGES AND BARRICADES

DESCRIPTION

This work includes the furnishing and installing of safety signages and barricades in accordance with the specifications and to the details shown below in the drawings, or as directed by the Engineer.

SPECIFICATION

The Signage's and Barricades shall be installed at location(s) designated by the Engineer.

The sizes of the standard signages shall be 2-2/3ft x 4ft (800mm X 1,200mm) for fixed type and 2ft x 2–2/3ft (600mm x 800mm) for mobile type. For barricade standard 2ft x 2–2/3ft (600mm x 800mm) shall be provided.

The materials to be used for signages and barricades are ½ inch (12mm) marine plywood or tarpaulin poster on 2" x 2" (50mm x 50mm) good lumber frame (see drawing below).

The printing or painting shall be the discretion of the Engineer.

STANDARD PLAN FOR SIGNAGES AND BARRICADES

SECTION VII

DRAWINGS
(APPROVED PLANS)

SECTION VII

DRAWINGS AND APPROVED PLANS
(SEE ISSUED APPROVED PLANS)

LIST OF DRAWINGS:

1 OF 24	-	VICINITY MAP, DEVELOPMENT PLAN, GENERAL NOTES, LIST OF DRAWINGS
2 OF 24	-	GENERAL PLAN (SHOWING THE EXISTING)
3 OF 24	-	GENERAL PLAN
4OF 24	-	DRAINAGE PLAN
5 OF 24	-	PILING PLAN
6 OF 24	-	PILING KEY PLAN, DETAIL OF WALE SPLICE, CHANNEL/WALE SECTION
7 OF 24	-	ELEVATION "X", ELEVATION "Y"
8 OF 24	-	SECTION 1-1, SECTION 2-2
9 OF 24	-	SECTION 3-3, SECTION 4-4
10 OF 24	-	SECTION 5'-5', SECTION 5"-5"
11 OF 24	-	SECTION 6-6, SECTION 7-7
12 OF 24	-	SECTION 8-8, SECTION 9-9
13 OF 24	-	SECTION A-A
14 OF24	-	SECTION B-B
15 OF 24	-	SECTION C-C
16 OF 24	-	SECTION D-D
17 OF 24	-	SECTION E-E, SECTION G-G, DETAIL OF CATCH DRAIN MANHOLE
18 OF 24	-	SECTION F-F
19 OF 24	-	GENERAL NOTES FOR TIE ROD (HIGH TENSION STEEL 45), DETAIL OF RETAINING WALL-1, DETAIL OF ANCHOR WALL
20 OF 24	-	DETAIL OF ANCHOR BLOCK, DETAIL OF MOORING BLOCK, ELEVATION OF SLOTTED R.C. CURB, DETAIL OF RETAINING WALL-2, DETAIL OF WING WALL, TYPICAL PAVEMENT JOINT
21 OF 24	-	DETAIL OF RUBBER DOCK FENDER (V-500Hx1500L), DETAIL OF 35 TONS MOORING BOLLARD (TEE HEAD)
22 OF 24	-	DETAIL OF CHB FENCE

23 OF 24	-	ELECTRICAL WORKS, PORT LIGHTING LAYOUT PLAN, LEGEND, GENERAL NOTES
24 OF 24	-	DETAIL LAMP POST FOUNDATION, FLOODLIGHT POST CONNECTION DETAIL, DETAIL OF DUCT BANK, SINGLE ANGLE BAR FLOODLIGHT STEEL POST, SCHEDULE OF LOAD, SPECIFICATION, 100 W LED FLOODLIGHT FIXTURE
ANNEX-1	-	HYDROGRAPHIC AND TOPOGRAPHIC SURVEY PLAN
ANNEX-2	-	BOREHOLE LOCATION, FINAL BORING LOGS

SECTION VIII

BILL OF QUANTITIES
and
ATTACHMENTS

BILL OF QUANTITIES
REHABILITATION / IMPROVEMENT OF CLAVERIA PORT
Port of Claveria, Taggat Norte, Cagayan

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
BILL NO.	1 GENERAL EXPENSES				
1.01	Mobilization, demobilization and cleaning	lot	1		
1.02	Provide site office and residence for the Engineer and staff	sq.m.	48		
1.03	Maintain temporary site office and residence for the Engineer and staff	mo.	22		
1.04	Provide Construction Safety and Health Program in the execution of the project including stringent Covid-19 protocols per Engineering circular No. 01-2020, and Construction Guidelines for Project Implementation during the period of Public Health Emergency, approved by PDCB and CIAP (as indicated in the Bid Documents)	mo.	22		
	TOTAL FOR BILL NO. 1				

Bidder's Authorized Signature

BILL OF QUANTITIES
REHABILITATION / IMPROVEMENT OF CLAVERIA PORT
Port of Claveria, Taggat Norte, Cagayan

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
BILL NO.	2 DEMOLITION, REMOVAL AND EXCAVATION WORKS				
2.01	Demolish and dispose existing concrete pavement	sq.m.	1,402		
2.02	Demolish and dispose existing RC curb, concrete seat and deflector wall	cu.m.	428		
2.03	Scrape existing gravel base materials	cu.m.	847		
2.04	Excavation of existing sea-bed prior to the laying of core rocks and sheet pile	cu.m.	9,403		
2.05	Excavate and backfill existing fill materials prior to the installation of catch drain manhole, reinforced concrete pipe, lamp post foundation & ductbank	cu.m.	98		
2.06	Extraction of existing rocks prior to the construction of anchor wall	cu.m.	1,518		
2.07	Removal of existing concrete blocks prior to the installation of anchor wall and sheet piles	pc.	994		
	TOTAL FOR BILL NO. 2				

Bidder's Authorized Signature

BILL OF QUANTITIES
REHABILITATION / IMPROVEMENT OF CLAVERIA PORT
Port of Claveria, Taggat Norte, Cagayan

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
BILL NO.	3 BACK-UP AREA WITH RO-RO RAMP ON-FILL				
3.01	Supply and deliver to site Z-type steel sheet pile including corner pile connector	m.t	575		
3.02	Handle, pitch and drive steel sheet pile & corner pile connector	l.m.	5,596		
3.03	Supply and install steel waling and splice plate for the steel sheet piles including accessories	kg.	36,703		
3.04	Cut newly driven steel sheet pile up to cut-off elevation and turn-over of the excess materials to the authority	no.	494		
3.05	Supply and install tie-rod of various sizes including accessories:				
	a) 60mm Ø x 10.00m	set	42		
	b) 60mm Ø x 12.00m	set	80		
	c) 32mm Ø x 9.00m	set	4		
3.06	Supply and place 3,500 psi concrete for the retaining wall, wing wall, anchor wall, anchor block, mooring blocks and R.C. Curb lampost foundation, and ductbank.	cu.m.	1,311		
3.07	Supply and install steel reinforcement for the retaining wall, wing wall, anchor wall, anchor block, mooring blocks and R.C. Curb lampost foundation, and ductbank.	kg.	109,853		
3.08	Supply and place 50-100 kg. Core rocks	cu.m.	7,512		

Bidder's Authorized Signature

BILL OF QUANTITIES
REHABILITATION / IMPROVEMENT OF CLAVERIA PORT
Port of Claveria, Taggat Norte, Cagayan

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
3.09	Supply and place Sacked concrete	cu.m.	21		
3.10	Supply and install Geotextile Fabric	sq.m.	5,768		
3.11	Supply and place Sand and Gravel fill	cu.m.	35,002		
3.12	Supply, spread and compact aggregate sub-base course	cu.m.	8,575		
3.13	Supply, spread and compact gravel bedding	cu.m.	410		
3.14	Re-installation of newly removed concrete blocks	pc.	459		
3.15	Supply, spread and compact aggregate base course	cu.m.	2,058		
3.16	Construct PCC Pavement (300mm thick) including dowel bars	sq.m.	10,287		
3.17	Supply and lay 610mm dia. reinforced concrete pipe	l.m.	91		
3.18	Construct catch drain manhole including reinforcement	no.	8		
3.19	Supply and deliver to site rubber dock fenders (V-500H x 1,500L) including accessories	set	5		
3.20	Install rubber dock fenders including accessories	set	5		
3.21	Supply and deliver to site mooring bollard, 35T, T-head, including accessories	set	2		
3.22	Install mooring bollard, including accessories	set	2		

Bidder's Authorized Signature

BILL OF QUANTITIES
REHABILITATION / IMPROVEMENT OF CLAVERIA PORT
Port of Claveria, Taggat Norte, Cagayan

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
3.23	Construct Security Fence including accessories	l.m.	153		
3.24	Supply, deliver and install 6.0 m.ht single bar floodlight steel tapered lamp post in hot dip galvanized including wires, cables, floodlight fixtures and other accessories .	set	8		
	TOTAL FOR BILL NO. 3				

Bidder's Authorized Signature

BILL OF QUANTITIES
REHABILITATION / IMPROVEMENT OF CLAVERIA PORT
Port of Claveria, Taggat Norte, Cagayan

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
BILL NO.	4 REIMBURSABLE ITEMS				
4.01	Provide reimbursable items necessary in the implementation of the project as determined by the Authority				
	a) Office furnitures and appliances	lot	1		
	b) Computers and Accessories	lot	1		
	c) Service Vehicle including LTO registration and comprehensive insurance	unit	1		
	TOTAL FOR BILL NO. 4				

Bidder's Authorized Signature

BASIS OF PAYMENT FOR WORK ITEMS INCLUDED IN THE PROPOSAL

The work items included in the proposal and the basis of payments are as follows:

BILL NO. 1

GENERAL EXPENSES

Item 1.01 Mobilization, demobilization and cleaning

The quantity to be paid for shall be the minimum equipment requirement enumerated in the bid documents mobilized, demobilized and cleaning of the site and accepted by the Engineer. The contract lump sum price shall be full compensation for furnishing all materials, labor, equipment, tools and incidentals necessary to mobilize and demobilize all the minimum equipment requirement enumerated in the bid documents including cleaning of the site. Fifty percent (50%) of the total amount shall be payable after the mobilization activity while the remaining (50%) payable after demobilization and cleaning.

Item 1.02 Provide site office and residence for the Engineer and staff

The quantity to be paid for shall be the actual provision for temporary site office and residence for the engineer and staff and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools and incidentals necessary for the provision of temporary site office and residence for the engineer and staff.

Item 1.03 Maintain temporary site office and residence for the Engineer and staff

The quantity to be paid for shall be the actual services rendered in maintaining the site office and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools and incidentals necessary to complete the maintenance of the temporary site office and residence as well as other expenses such as provision for electric power, telephone bill, potable water supply, janitorial and security services.

Item 1.04 Provide construction safety and Health Program in the execution of the project including stringent Covid-19 protocols per PPA Engineering Circular No. 01-2020 and, construction guidelines for the project implementation during the period of public health emergency approved by PDCB and CIAP (as indicated in the bid documents)

The quantity to be paid for shall be the actual implementation of construction safety and health program and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools and incidentals necessary to complete the implementation of the Construction Safety and Health Program, as required and approved by the Department of Labor and Employment (DOLE).

BILL NO. 2

DEMOLITION, REMOVAL AND EXCAVATION WORKS

Item 2.01 Demolish and dispose existing concrete pavement

The quantity to be paid for shall be the actual area in square meter of existing concrete pavement to be demolished and properly disposed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools and incidentals necessary to complete the work.

Item 2.02 Demolish and dispose existing RC curb, concrete seat and deflector wall

The quantity to be paid for shall be the actual volume in cubic meter of existing RC curb, concrete seat and deflector wall to be demolished and properly disposed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools and incidentals necessary to complete the work.

Item 2.03 Scrape existing gravel base materials

The quantity to be paid for shall be the actual volume in cubic meter of existing gravel base materials to be scraped in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools and incidentals necessary to complete the work.

Item 2.04 Excavation of existing sea-bed prior to the laying of core rocks and sheet pile

The quantity to be paid for shall be the actual volume in cubic meter of existing sea-bed to be excavated up to required elevation prior to the laying of core rocks and sheet pile in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools and incidentals necessary to complete the work.

Item 2.05 Excavate and backfill existing fill materials prior to the installation of catch drain manhole, reinforced concrete pipe, lamp post foundation and ductbank

The quantity to be paid for shall be the actual volume in cubic meter of existing fill materials to be excavated up to required elevation prior to the installation of catch drain manhole, reinforced concrete pipe, lamp post foundation and ductbank then backfilled thereafter in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools and incidentals necessary to complete the work.

Item 2.06 Extraction of existing rocks prior to the construction of anchor wall

The quantity to be paid for shall be the actual volume in cubic meter of existing rocks to be extracted prior to the construction of anchor wall in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools and incidentals necessary to complete the work.

Item 2.07 Removal of existing concrete blocks prior to the installation of anchor wall and sheet piles

The quantity to be paid for shall be the actual pieces of existing concrete blocks to be removed prior to the installation of anchor wall and sheet piles in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools and incidentals necessary to complete the work.

BILL NO. 3

BACK-UP AREA WITH RO-RO RAMP ON-FILL

Item 3.01 Supply and deliver to site Z-type steel sheet pile including corner pile connector

The quantity to be paid for shall be the actual weight in metric tons of Z-type steel sheet pile including corner pile connector, supplied and delivered to site in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools and incidentals necessary to complete the work.

Item 3.02 Handle, pitch and drive steel sheet pile and corner pile connector

The quantity to be paid for shall be the actual length in linear meter of steel sheet pile and corner pile connector to be handled, pitched and driven in accordance with the plans and specifications, measured from the tip of piles to cut-off elevation and accepted by the Engineers. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools and incidentals necessary to complete the work.

Item 3.03 Supply and install steel wailing and splice plate for the steel sheet piles including accessories

The quantity to be paid for shall be the actual weight in kilogram of steel wailing, to be supplied and installed including splicing of plate for the steel sheet piles and accessories in accordance with the plans and specifications, measured from the tip of piles to cut-off elevation and accepted by the Engineers. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools and incidentals necessary to complete the work.

Item 3.04 Cut newly driven steel sheet pile up to cut-off elevation and turn-over of the excess materials to the authority

The quantity to be paid for shall be the actual number of newly driven steel sheet pile, cut-off up to required elevation and turning over of the excess materials to the authority in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools and incidentals necessary to complete the work.

Item 3.05 Supply and install tie-rod of various sizes including accessories:

a.) 60mmø x 10m.
b.) 60mmø x 12m.
c.) 32mmø x 9m.

The quantity to be paid for shall be the actual set of tie rods of various sizes and lengths including accessories to be supplied and installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools and incidentals necessary to complete the work.

Item 3.06 Supply and place 3,500 psi concrete for the retaining wall, wing wall, anchor wall, anchor block, mooring blocks and RC Curb, lamp post foundation and duct bank

The quantity to be paid for shall be the actual volume in cubic meter of 3,500 psi concrete for the retaining wall, wing wall, anchor wall, anchor block, mooring blocks and RC Curb, lamp post foundation and duct bank, supplied and set-in-place in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools and incidentals necessary to complete the work.

Item 3.07 Supply, fabricate and install steel reinforcement for the retaining wall, wing wall, anchor wall, anchor block, mooring blocks and RC Curb, lamp post foundation and duct bank

The quantity to be paid for shall be the actual weight in kilogram of reinforcing steel bars for the retaining wall, wing wall, anchor wall, anchor block, mooring blocks and RC Curb, lamp post foundation and duct bank, supplied, fabricated and installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools and incidentals necessary to complete the work.

Item 3.08 Supply and place 50-100 kg. core rocks

The quantity to be paid for shall be the actual volume in cubic meter of 50-100 kg. core rocks, supplied and set-in-place in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools and incidentals necessary to complete the work.

Item 3.09 Supply and place sacked concrete

The quantity to be paid for shall be the actual volume in cubic meter of sacked concrete, supplied and set-in-place in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools and incidentals necessary to complete the work.

Item 3.10 Supply and install geotextile fabric

The quantity to be paid for shall be the actual area in square meter of geotextile fabric, supplied and installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools and incidentals necessary to complete the work.

Item 3.11 Supply and place sand and gravel fill

The quantity to be paid for shall be the actual volume in cubic meter of sand and gravel fill, supplied and set-in-place in accordance with the plans and specifications and accepted by the Engineer. Hydrographic/Topographic Surveys before and after placing of sand and gravel fill shall be made to determine the actual elevations along the cross sections and the actual quantities for payment. Volume due to settlement as established using settlement plates shall also be considered for payment. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools and incidentals necessary to complete the work.

Item 3.12 Supply, spread and compact aggregate subbase course

The quantity to be paid for shall be the actual volume in cubic meter of aggregate subbase course to be supplied, spread and compacted in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools and incidentals necessary to complete the work.

Item 3.13 Supply, spread and compact gravel bedding

The quantity to be paid for shall be the actual volume in cubic meter of gravel bedding to be supplied, spread and compacted in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools and incidentals necessary to complete the work.

Item 3.14 Reinstallation of newly removed concrete blocks

The quantity to be paid for shall be the actual pieces of newly removed concrete blocks to be reinstalled in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools and incidentals necessary to complete the work.

Item 3.15 Supply, spread and compact aggregate base course

The quantity to be paid for shall be the actual volume in cubic meter of aggregate base course to be supplied, spread and compacted in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools and incidentals necessary to complete the work.

Item 3.16 Construct Portland cement concrete pavement (300mm thick) including dowel bars

The quantity to be paid for shall be the actual area in square meter of Portland cement concrete pavement (300mm thick) including dowel bars, to be constructed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools and incidentals necessary to complete the work.

Item 3.17 Supply and lay 610mm diameter reinforced concrete pipe

The quantity to be paid for shall be the actual length in linear meter of 610mm diameter reinforced concrete pipe, supplied and laid-in-place in accordance with the plans and specifications and accepted by the Engineers. The contract unit price shall

be full compensation for furnishing all materials, labor, equipment, tools and incidentals necessary to complete the work.

Item 3.18 Construct catch drain manhole including reinforcement

The quantity to be paid for shall be the actual number of catch drain manhole including reinforcement, to be constructed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools and incidentals necessary to complete the work.

Item 3.19 Supply and deliver to site rubber dock fender (V-type, 500H x 1500L) including accessories

The quantity to be paid for shall be the actual set of rubber dock fenders (V-type, 500H x 1500L) including accessories, supplied and delivered to site in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools and incidentals necessary to complete the work.

Item 3.20 Install rubber dock fenders including accessories

The quantity to be paid for shall be the actual set of rubber dock fenders including accessories, installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools and incidentals necessary to complete the work.

Item 3.21 Supply and deliver to site mooring bollard (35 Tons, T-head) including accessories

The quantity to be paid for shall be the actual quantity in set of mooring bollard (35 Tons, T-head) including accessories, supplied and delivered to site in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools and incidentals necessary to complete the work.

Item 3.22 Install mooring bollard including accessories

The quantity to be paid for shall be the actual quantity in set of mooring bollard including accessories, installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools and incidentals necessary to complete the work.

Item 3.23 Construct security fence including accessories

The quantity to be paid for shall be the actual length in linear meter of security fence including accessories, constructed in accordance with the plans and specifications and accepted by the Engineers. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools and incidentals necessary to complete the work.

Item 3.24 **Supply, deliver and install 6.0m.ht. single bar floodlight steel tapered lamp post in hot dipped galvanized including wires, cables, floodlight fixtures and other accessories**

The quantity to be paid for shall be the actual set of 6.0m.ht. single bar floodlight steel tapered lamp post in hot dipped galvanized including wires, cables, floodlight fixtures and other accessories, to be supplied, delivered and installed in accordance with the plans and specifications and accepted by the Engineers. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools and incidentals necessary to complete the work.

BILL NO. 4

REIMBURSABLE ITEMS

Item 4.01 **Provide reimbursable items necessary in the implementation of the project as determined by the Authority.**

a. **Office Furniture and Appliances**

b. **Computer and Accessories**

c. **Service Vehicle including LTO registration and comprehensive insurance**

The quantity to be paid for shall be the actual quantity of determined items by the Authority deemed necessary in the implementation of the project, supplied, delivered and accepted by the Authority. Payment for said items shall be made only upon complete delivery/acceptance of such. The contract lump sum price shall be full compensation for providing all determined items. The Contractor's Profit and Overhead, Contingencies and Miscellaneous (OCM) should not be included in the cost of said items. Claims for payment shall be supported by Official Receipt(s) (OR) and at least three (3) canvasses. The amount to be paid for shall be the price indicated in the OR but should not exceed the contract lump sum price. The determined items shall be the property of PPA. Operation and maintenance shall be borne by PPA.

FACILITIES TO BE PROVIDED FOR THE ENGINEER & HIS STAFF

CONSTRUCTION OF SITE OFFICE AND RESIDENCE FOR THE ENGINEER & STAFF

The Contractor shall construct a site office and residence for the Engineer and his staff in accordance with the plans and specifications as indicated hereafter.

Upon completion of the project, the said office will be turned-over to the PMO.

PHILIPPINE
PORTS
AUTHORITY

PROPOSED FIELD OFFICE

1 / A1 **PERSPECTIVE**

SCALE N T S

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STRUCTURAL	
S - 01 of 02	• FOUNDATION PLAN • ROOF FRAMING PLAN • WALL FOOTING DETAIL • DETAIL OF COLUMN / COLUMN FOOTING
S - 02 of 02	• FTG/GIRDER/BEAM SCHEDULE • TYPICAL DETAIL OF SECTION OF BEAM • TRUSS DIAGRAM • CANOPY DETAILS
ELECTRICAL	
E - 01 of 01	• LIGHTING /POWER LAYOUT PLAN • LEGEND • SCHEDULE OF LOAD • MECHANICAL EQUIPMENT SCHEDULE
PLUMBING	
P - 01 of 03	• DETAILS OF SEPTIC TANKS • SEPTIC TANKS & MANHOLE DETAILS • DETAILS OF WATER METER • GENERAL NOTES AND SPECIFICATIONS • MATERIALS SPECIFICATIONS • SCHEDULE OF PIPE (WATER LINE) • SCHEDULE OF PIPE (SEWER LINE)
P - 02 of 03	• CATCH BASIN DETAILS • CLEAN-OUT DETAIL • PIPE TRENCH BEDDING • SANITARY SEWAGE LAYOUT • ISOMETRIC SANITARY SEWAGE LAYOUT • LEGENDS
P - 03 of 03	• WATER LINE LAYOUT • ISOMETRIC WATER LINE LAYOUT • SCHEDULE AND LEGEND OF PIPE (WATER LINE) • DETAILS OF AIR CHAMBER • GROUND FLOOR STORM DRAINAGE LAYOUT • ROOF STORM DRAINAGE LAYOUT • ISOMETRIC STORM DRAINAGE LAYOUT • LEGENDS

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE

P R O P O S E D F I E L D O F F I C E

SHEET CONTENTS:
- PERSPECTIVE
- TABLE OF CONTENTS

SCALE: AS SHOWN

SHEET NO. A-01 of 04

DATE APRIL 2011

1 A2 **FLOOR PLAN**
SCALE 1:150 M

2 A2 **ROOF PLAN**
SCALE 1:150 M

3 A2 **REFLECTED CEILING PLAN**
SCALE 1:150 M

4 A2 **WALL PARTITION LAYOUT**
SCALE 1:150 M

LEGEND:

FLOOR FINISHES		CEILING		WALL PARTITION	
F1	PLAIN CEMENT FLOOR FINISH	W-1	14MM THK. MARINE PLYWOOD, FLAT ENAMEL PAINT FIN. ON 2"x4" CEILING JOIST @ 0.40 m O.C. STUDS @ 0.60m O/C		150mm THK. CHB WALL
F2	30cm x 30cm NON-SLIP TILE FINISH				100mm THK. CHB WALL
		●	VERTICAL DOWNLIGHT RECESSED INTO TYPE WITHOUT GLASS COVER 220V, E27, 11 WATT LED BULB DAYLIGHT		75mm THK. DRYWALL 14MM THK. MARINE PLYWOOD ON 2" x 3" STUDS

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE:

P R O P O S E D F I E L D O F F I C E

SHEET CONTENTS:
- FLOOR PLAN
- ROOF PLAN
- REFLECTED CEILING PLAN
- WALL PARTITION LAYOUT
- LEGEND

SCALE: AS SHOWN

SHEET NO. A-02 of 04

DATE: APRIL 2021

1 A4 **FRONT ELEVATION**
SCALE 1:150 M

2 A4 **REAR ELEVATION**
SCALE 1:150 M

3 A4 **RIGHT SIDE ELEVATION**
SCALE 1:150 M

4 A4 **LEFT SIDE ELEVATION**
SCALE 1:150 M

5 A4 **LONGITUDINAL SECTION**
SCALE 1:150 M

6 A4 **CROSS SECTION**
SCALE 1:150 M

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE:

P R O P O S E D F I E L D O F F I C E

SHEET CONTENTS:
- FRONT ELEVATION
- RIGHT SIDE ELEVATION
- LEFT SIDE ELEVATION
- REAR ELEVATION
- LONGITUDINAL SECTION
- CROSS SECTION
- LEGEND

SCALE: AS SHOWN

SHEET NO. A-03 of 04

DATE: APRIL 2021

2 A5 TOILET DETAILS

SCALE 1:100 M

3 A5 KITCHEN CABINET DETAILS

SCALE 1:20 M

1 A5 SCHEDULE OF DOORS AND WINDOWS

SCALE 1:20 M

PHILIPPINE PORTS AUTHORITY	PROJECT TITLE: PROPOSED FIELD OFFICE	SHEET CONTENTS: • SCHEDULE OF DOORS AND WINDOWS • TOILET DETAILS • KITCHEN CABINET DETAILS	SCALE: AS SHOWN SHEET NO. A-04 of 04 DATE

1 / S1 FOUNDATION PLAN

SCALE 1:150 M

2 / S1 ROOF FRAMING PLAN

SCALE 1:150 M

PLAN

PLAN

SECTION

SECTION

3 / S1 WALL FOOTING DETAIL

SCALE 1:50 M

4 / S1 DETAIL OF COLUMN/COLUMN FOOTING

SCALE 1:50 M

PHILIPPINE PORTS AUTHORITY	PROJECT TITLE: PROPOSED FIELD OFFICE	SHEET CONTENTS: • FOUNDATION PLAN • ROOF FRAMING PLAN • WALL FOOTING DETAIL • DETAIL OF COLUMN/COLUMN FOOTING	SCALE: AS SHOWN SHEET NO. S-01 of 02 DATE APRIL 2011

MARK	FTB			FG		
SIZE (mm)	[illegible]			[illegible]		
LOCATION	DISCONT. SUPPORT	MIDSPAN	CONT. SUPPORT	DISCONT. SUPPORT	MIDSPAN	CONT. SUPPORT
SECTION	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TOP BAR	3 - D14	3 - D14	3 - D14	4 - D19	2 - D13	4 - D19
BOTTOM BAR	3 - D16	4 - D16	3 - D16	2 - D16	4 - D16	2 - D16
STIRRUPS	D10mm - 1 @ 50mm, 4 @ 150mm REST @ 250mm			D10mm - 1 @ 50mm 4 @ 150mm, REST @ 250mm		
WEB BARS						
TIES						

1 / S2 **FTB/GIRDER/BEAM SCHEDULE**

SCALE 1:50 M

2 / S2 **TYPICAL DETAIL OF SECTION OF BEAM**

SCALE NTS

TRUSS 1

TRUSS 2

TRUSS 3

SCHEDULE OF TRUSS			
[illegible]	[illegible]	[illegible]	[illegible]
	1	TOP CHORD	[illegible]
	2	BOTTOM CHORD	[illegible]
	3	WEB MEMBER	[illegible]
	4	BRACING	[illegible]
	5	[illegible]	[illegible]

NOTE
[illegible]

3 / S2 **TRUSS DIAGRAM**

SCALE 1:150 M

4 / S2 **CANOPY DETAILS**

SCALE 1:50 M

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE:

P R O P O S E D F I E L D O F F I C E

SHEET CONTENTS:
- FTB/GIRDER/BEAM SCHEDULE
- TYPICAL DETAIL OF SECTION OF BEAM
- TRUSS DIAGRAM
- REINFORCEMENT DETAIL OF STEPS
- CANOPY DETAILS

SCALE: AS SHOWN

SHEET NO. S-02 of 02

DATE APRIL 2011

1 E1 **LIGHTING LAYOUT PLAN**

SCALE 1:150 M

2 E1 **POWER LAYOUT PLAN**

SCALE 1:150 M

1 E1 **AIRCONDITION LAYOUT PLAN**

SCALE 1:150 M

LEGEND:

- VERTICAL DOWNLIGHT RECESSED MTD TYPE WITHOUT GLASS COVER LAMP HOLDER, 230V, E27, 11 WATT LED BULB, DAYLIGHT
- BATHROOM RECESSED CEILING EXHAUST FAN 24 WATT, 220 VOLT, 60 HZ
- 3-PRONG DUPLEX CONVENIENCE OUTLET WITH GROUNDING
- ONE GANG SWITCH, 16A
- TWO GANG SWITCH, 16A, SUBSCRIPT DENOTES LIGHT CONTROL
- THREE GANG SWITCH, 16A, SUBSCRIPT DENOTES LIGHT CONTROL
- WINDOW TYPE AIR CONDITION OUTLET (INVERTER ACU)
- PANEL BOARD (LIGHT /POWER)
- CIRCUIT HOMERUN
- TELEPHONE/INTERNET CONNECTION PROVIDED BY TELEPHONE COMPANY

LP/PP
SCHEDULE OF LOAD

CIRCUIT NO.	O.T.	B.T.	C.B.	LOAD DESCRIPTION	VOLT	CURRENT	WIRE (mm²) (THWN - THWN)	CONDUIT (IN INCH)	O.T. BKR PROTECTION
1	[illegible]			LIGHTING	230	4.96	[illegible]	[illegible]	[illegible]
2	[illegible]			LIGHTING	230	2.40	[illegible]	[illegible]	[illegible]
3			4	DUPLEX CONVENIENCE OUTLET	230	[illegible]	[illegible]	[illegible]	[illegible]
4			4	DUPLEX CONVENIENCE OUTLET	230	[illegible]	[illegible]	[illegible]	[illegible]
5				WINDOW TYPE ACU - 1HP	230	[illegible]	[illegible]	[illegible]	[illegible]
6				WINDOW TYPE ACU - 1HP	230	[illegible]	[illegible]	[illegible]	[illegible]
7				WINDOW TYPE ACU - 1HP	230	4.56	[illegible]	[illegible]	[illegible]
8				SPARE	230	2.40			[illegible]
9				SPARE	230	5.28			[illegible]
MAIN DISCONNECTED PANEL BOARD					230	[illegible]	[illegible]	20mm, [illegible] RSC	[illegible]

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE:

P R O P O S E D F I E L D O F F I C E

SHEET CONTENTS:
- LIGHTING LAYOUT PLAN
- POWER LAYOUT PLAN
- LEGEND
- SCHEDULE OF LOAD
- MECHANICAL EQUIPMENT SCHEDULE

SCALE: AS SHOWN

SHEET NO. E-01 of 01

DATE: APRIL 2011

GENERAL NOTES AND SPECIFICATIONS:

1. IT IS NOT INTENDED THAT THE DRAWINGS SHALL SHOW EVERY PIPE FITTING, VALVE AND APPURTENANCE, ALL SUCH ITEMS WHETHER SPECIFICALLY MENTIONED OR NOT, OR INDICATED ON THE DRAWINGS SHALL BE FURNISHED AND INSTALLED IF NECESSARY TO COMPLETE THE SYSTEM TO THE SATISFACTION OF THE OWNER.
2. ALL PLUMBING WORKS SHALL BE INSTALLED IN ACCORDANCE WITH THE PROVISION OF THE NATIONAL PLUMBING CODE OF THE PHILIPPINES, THE REQUIREMENTS OF THE LOCAL PLUMBING INSPECTION OFFICE, PERTINENT PROVISIONS OF THE UNIFORM BUILDING CODE AND THE NATIONAL BUILDING CODE OF THE PHILIPPINES.
3. COORDINATE THE DRAWING WITH OTHER RELATED DRAWINGS AND SPECIFICATION. THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY DESCREPANCY FOUND THEREIN.
4. ALL PIPES SHALL BE INSTALLED AS INDICATED ON PLANS, ANY RELOCATIONS REQUIRED FOR PROPER EXECUTION OF OTHER TRADE SHALL BE WITH PRIOR APPROVAL OF THE ARCHITECT OR ENGINEER.
5. PROPOSED SANITARY UTILITIES SHALL CONFORM TO THE ACTUAL LOCATION, DEPTH AND INVERT ELEVATION OF ALL EXISTING PIPES AND STRUCTURES AS VERIFIED BY THE CONTRACTOR.
6. ALL SLOPES FOR HORIZONTAL DRAINAGE SHALL MAINTAIN 1% UNLESS OTHERWISE SPECIFIED.
7. SIZE OF WATER SUPPLY PIPES TO FIXTURES SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
8. THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES AT THE SITE, COORDINATE THE WORKS WITH THE SEWER LINE EFFLUENT DISPOSAL POINT AND WATER LINE SERVICE CONNECTING POINT, UNLESS OTHERWISE POINT AND WATER LINE SERVICE CONNECTING POINT, UNLESS OTHERWISE SPECIFIED.
9. ALL FIXTURES SHALL BE INDIVIDUALLY VENTED.
10. THE INVERT OF THE INLET PIPE OF A SEPTIC TANK SHALL BE AT A LEVEL NOT LESS THAN 50.8mm (2") ABOVE THE INVERT OF THE OUTLET PIPE.
11. TO PREVENT CONTAMINATION OF UNDERGROUND WATER SOURCE NO SEPTIC TANK SHALL BE CONSTRUCTED LESS THAN 1.20m ABOVE THE WATER TABLE LEVEL.
12. ALL PIPE SIZE ARE IN MILLIMETERS AND ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
13. ALL PLUMBING INSTALLATION INCLUDED HEREIN SHALL BE UNDER THE DIRECT SUPERVISION OF A DULY REGISTERED AND LICENSED MASTER PLUMBER.
14. ALL PIPE SIZES AND OTHER DIMENSIONS ARE IN MILLIMETER (MM) UNLESS
15. ALL PIPE SIZES INDICATED ARE NOMINAL SIZES.

MATERIAL SPECIFICATIONS:

COLD WATER LINE-	SHALL BE POLYPROPYLENE RANDOM (PPR) TYPE 3 PIPE, "WAVIN EKOPLLASTIK" BRAND OR APPROVED EQUAL.
VENT PIPES-	SHALL BE POLYVINYL CHLORIDE (PVC) PIPE SERIES 1000, "NELTEX", "ATLANTA" BRAND OR APPROVED EQUAL.
FITTING-	SHALL BE SOLVENT CEMENT JOINT TO ASTM D2564.
SEWER LINES-	SHALL BE POLYVINYL CHLORIDE (PVC) PIPE SERIES 1000, "NELTEX", "ATLANTA" BRAND OR APPROVED EQUAL. D2564.
SOTRM DRAINAGE LINES/ DOWNSPOUT	SHALL BE POLYVINYL CHLORIDE (PVC) SERIES 1000, "ATLANTA" BRAND OR APPROVED EQUAL. FITTING SHALL BE SOLVENT CEMENT JOINT TO ASTM D 2564. 250MMØ & ABOVE MATERIAL SHALL BE CONCRETE DRAIN PIPE (CDP) TONGUE FOR 300MMØ & LARGER.
AHU/FCU LINES-	SHALL BE POLYVINYL CHLORIDE (PVC) PIPE SERIES 800 II, "NELTEX", "ATLANTA" BRAND OR APPROVED EQUAL.
CHECK VALVES-	"GREAT VOLUME"," CRANE", "KITS", OR APPROVED EQUAL.
GATE VALVES-	"GREAT VOLUME"," CRANE", "KITS", OR APPROVED EQUAL.
WATER METER-	"ARAD", "ASAHI" BRAND OR APPROVED EQUAL.

SCHEDULE OF PIPE (WATER LINE)

	ABV.	SIZE OF PIPE (mm)	TYPE OF PIPE
WATER CLOSET	WC	13	PPR
LAVATORY	LAV	13	PPR
URINAL	UR	13	PPR
KITCHEN SINK	KS	13	PPR

SCHEDULE OF PIPE (SEWER LINE)

	ABV.	SIZE OF PIPE (mm)	TYPE OF PIPE
WATER CLOSET	WC	100	PVC (SERIES 1000)
LAVATORY	LAV	50	PVC (SERIES 1000)
URINAL	UR	50	PVC (SERIES 1000)
KITCHEN SINK	KS	50	PVC (SERIES 1000)
FLOOR DRAIN	FD	50	PVC (SERIES 1000)
FLOOR CLEAN-OUT	FCO	SEE PLAN	PVC (SERIES 1000)
DOWN SPOUT	DS	SEE PLAN	PVC (SERIES 1000)
CLEAN-OUT	CO	SEE PLAN	PVC (SERIES 1000)
VENT STACK THRU ROOF	VSTR	100	PVC (SERIES 1000)
SEWER LINE (SOIL PIPE)	SP	SEE PLAN	PVC (SERIES 1000)

SEPTIC TANK DETAILS

1-A P1 PLAN OF SEPTIC TANK

SCALE 1:50 M

1-B P1 LONGITUDINAL SECTION

SCALE 1:50 M

1-B P1 MANHOLE COVER DETAILS

SCALE 1:40 M

2 P1 WATER METER DETAILS

SCALE NTS

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE:

P R O P O S E D F I E L D O F F I C E

SHEET CONTENTS:
- DETAILS OF SEPTIC TANK
- SEPTIC TANK MANHOLE DETAILS
- DETAILS OF WATER METER
- GENERAL NOTES AND SPECIFICATIONS
- MATERIALS SPECIFICATIONS
- SCHEDULE OF PIPE (WATER LINE)
- SCHEDULE OF PIPE (SEWER LINE)

SCALE: AS SHOWN

SHEET NO. P-01 of 03

DATE APRIL 30, 1

1 | P2 **CATCH BASIN DETAILS**

SCALE 1:40 M

2 | P2 **CLEAN-OUT DETAIL**

SCALE NTS

3 | P2 **PIPE TRENCH BEDDING**

SCALE NTS

SCHEDULE OF PIPE (SEWER LINE)

	ABV.	SIZE OF PIPE (mm)	TYPE OF PIPE
WATER CLOSET	WC	100	PVC (SERIES 1000)
LAVATORY	LAV	50	PVC (SERIES 1000)
URINAL	UR	50	PVC (SERIES 1000)
KITCHEN SINK	KS	50	PVC (SERIES 1000)
SLOP SINK	SS	50	PVC (SERIES 1000)
FLOOR DRAIN	FD	50	PVC (SERIES 1000)
FLOOR CLEAN-OUT	FCO	SEE PLAN	PVC (SERIES 1000)
DOWN SPOUT	DS	SEE PLAN	PVC (SERIES 1000)
CLEAN-OUT	CO	SEE PLAN	PVC (SERIES 1000)
VENT STACK THRU ROOF	VSTR	100	PVC (SERIES 1000)
SEWER LINE (SOIL PIPE)	SP	SEE PLAN	PVC (SERIES 1000)

LEGENDS

100mm Ø	100mm Ø PVC SANITARY PIPE
150mm Ø	150mm Ø PVC SANITARY PIPE
50mm Ø	50mm Ø PVC VENT PIPE
FCO	FLOOR CLEANOUT
CO	CLEANOUT
	WATER CLOSET
	LAVATORY
	URINAL
	KITCHEN SINK
	FLOOR DRAIN

4 | P2 **SANITARY SEWAGE LAYOUT**

SCALE 1:150 M

5 | P2 **ISOMETRIC SANITARY SEWAGE LAYOUT**

SCALE 1:150 M

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE:

P R O P O S E D F I E L D O F F I C E

SHEET CONTENTS:
- DETAILS OF CATCH BASIN
- CLEAN-OUT DETAIL
- PIPE TRENCH BEDDING
- SANITARY SEWAGE LAYOUT
- ISOMETRIC SANITARY SEWAGE LAYOUT
- SCHEDULE OF PIPE (SEWER LINE)
- LEGENDS

SCALE: AS SHOWN

SHEET NO. P-02 of 03

DATE: APRIL 28, 1

1 P3 **WATER LINE LAYOUT**

SCALE 1:150 M

2 P3 **ISOMETRIC WATER LINE LAYOUT**

SCALE 1:150 M

3 P3 **DETAIL OF AIR CHAMBER**

SCALE NTS

4 P3 **GROUND FLOOR STORM DRAINAGE LAYOUT**

SCALE 1:150 M

LEGENDS

25mm Ø	25mm Ø PVC RETURN SUPPLY
32mm Ø	32mm Ø PVC RETURN SUPPLY
	GATE VALVE
	CHECK VALVE
WM	WATER METER
1	AIR CHAMBER
WC	WATER CLOSET
O	LAVATORY
SHR	SHOWER
	KITCHEN SINK

SCHEDULE OF PIPE (WATER LINE)

	ABV.	SIZE OF PIPE (mm)	TYPE OF PIPE
WATER CLOSET	WC	25	PVC
LAVATORY	LAV	25	PVC
SHOWER WITH FAUCET	SHOWFCT	25	PVC
KITCHEN SINK	KS	25	PVC

LEGENDS

200MM Ø	200MM Ø NON REINFORCED CONCRETE PIPE
100MM Ø	100MM Ø PVC DOWNSPOUT
75MM Ø	75MM Ø PVC DOWNSPOUT
DS	DOWNSPOUT
RD	ROOF DRAIN
CB	CATCH BASIN

5 P3 **ROOF STORM DRAINAGE LAYOUT**

SCALE 1:150 M

6 P3 **ISOMETRIC STORM DRAINAGE LAYOUT**

SCALE 1:150 M

PHILIPPINE PORTS AUTHORITY

PROJECT TITLE:

P R O P O S E D F I E L D O F F I C E

SHEET CONTENTS:
- WATER LINE LAYOUT
- ISOMETRIC WATER LINE LAYOUT
- SCHEDULE AND LEGENDS OF PIPE (WATER LINE)
- DETAILS OF AIR CHAMBER
- GROUND FLOOR STORM DRAINAGE LAYOUT
- ROOF STORM DRAINAGE LAYOUT
- ISOMETRIC STORM DRAINAGE LAYOUT
- LEGEND

SCALE: AS SHOWN

SHEET NO. P-03 of 03

DATE: APRIL 2021

OFFICE EQUIPMENT FOR USE OF THE PPA ENGINEER AND STAFF

The Contractor shall provide within thirty (30) days after notice to commence work, the following main items of brand new office equipment for use of the Engineer and his staff. The Contractor shall make available for use of the Engineer other equipment as may be necessary for the proper functioning of the office. The equipment shall be the property of PPA. Operation and maintenance shall be borne by PPA.

a) Office Furnitures and appliances

2	sets	Office table, 1.5 x 0.70m with chair
1	set	Conference table w/ chair (6-str.)
2	pcs.	Single bunk beds w/ mattress & beddings
2	pcs.	Waste paper basket
1	pc.	Calculator (Scientific, 12 digit capacity)
1	pc.	Communication system, Cell phone
1	pc.	Filing Steel Cabinet, 4-drawers
2	units	Air-conditioned unit (1.0 hp., wdo type)
1	unit	Refrigerator (6 cu.ft.)
1	set	Gas stove (2 burner with tank)
1	unit	Hot and cold water dispenser (5 gal. Cap.)
1	pc.	White board with eraser and marker
1	unit	Stand fan (16" dia.)

b) Computers and Accessories

2	sets	Desktop Unit & Accessories
2	units	Uninterrupted Power Supply (UPS)
2	units	External Hard Drive (USB 3.0, 4TB)
1	unit	Computer Table
1	unit	Computer Chair

c) Licensed Softwares

2	units	Microsoft Office 2016
2	units	Operating System (Windows)

d) Service Vehicle including LTO registration and comprehensive insurance

1	unit	Service Vehicle (up to 3.0 DSL Engine, 4x2, A/T)
1	lot	Comprehensive Insurance (1 yr.)
1	lot	LTO Registration (3yrs.)

COMPUTER AND ACCESSORIES

The Contractor shall provide within thirty (30) days after notice to commence work, **two (2) "Brand New Desktop"**, complete with accessories and licensed software for the use of the PPA Engineer and his Staff at the start of the project. The items shall be the property of PPA. Operation and maintenance shall be borne by PPA.

Description / Specifications:	**DESK TOP UNIT**
Brand/Model	*Asus, Apple, Lenovo, ACER, HP or Equivalent Branded*
Processor	*Intel ® Core ™ i7-9700K CPU*
System Memory	*8GB DDR4 Ram at 2666MHZ up to 32GB, 2DIMM slots*
Chipset	*Intel B360*
CD-ROM	*Tray load DVD Drive (Reads and Writes to DVD/CD)*
Graphics	*NVIDIA GeForce RTX 2060 6GDS*
SATA	*4 x SATA 6.0 Gbps*
HDD/SSD	*128GB SSD (M.2 PCIe 128GB) + 1TB HDD (3.5" 7200rpm)*
WIFI/ Bluetooth	*802.11ac 2x2/ Bluetooth 5.0*
LAN	*Realtek RTL8111H 10/ 100/ 1000Mbps*
Audio	*Realtek ALC887, DTS Headphone X*
Accessories	*Wireless Keyboard and Mouse*
Ports	*4 x USB 3.2, 2 X USB 2.0, HDMI, Audio Jack, RJ45 and Mic in/ headphone out*
Display (Monitor)	*27" inch. FHD (1920 x 1080 Display) with speaker, display ports, USB hub, earphone jack and PC audio inputs.*
OS Bundled (Certification/License)	***Windows 10** PRO for business*
External Hard Drive	*Portable (USB 3.0 Interface, at least 4TB Capacity)*

SOFTWARE

The Contractor shall provide within thirty (30) days after commence work, the specified **"License softwares" latest version** for the use of the PPA Engineer and staff. The software shall be the property of PPA. Operation and maintenance shall be borne by PPA.

SERVICE VEHICLE

The Contractor shall provide within thirty (30) days after notice to commence work, one (1) unit "Brand New" Transportation Service Vehicle for the use of the PPA personnel. The vehicle to be provided by the Contractor shall be to the satisfaction of PPA. The vehicle shall comply in all respect with all relevant national or local laws, statutes and regulations. The unit shall become the property of PPA. Operations and maintenance shall be borne by PPA.

The vehicle shall be diesel-fuel engine with a displacement of not more than 3000cc, 4 x 2 and with automatic transmission.

MINIMUM MAJOR EQUIPMENT REQUIREMENTS

2	unit/s	Air-compressor (250cfm, minimum), owned
1	unit/s	Backhoe (0.40 cu.m., 94.30hp, minimum), owned
2	unit/s	Clamshell, owned
2	unit/s	Concrete Cutter, owned
2	unit/s	Concrete Mixer (1 bagger, minimum), owned
2	unit/s	Concrete Bucket, owned
2	unit/s	Concrete Screeder, owned
2	unit/s	Concrete Vibrator (3.50 hp, minimum), owned
1	unit/s	Crane Barge (319 GW, minimum) with 60T crane, owned
1	unit/s	Crawler Crane (30T, minimum), owned
1	unit/s	Pile Hammer (Diesel, 7,500 kg.m.), owned
2	unit/s	Diving equipment (complete), owned/leased
1	unit/s	Drop Hammer (2T, minimum), owned
2	unit/s	Dump Truck (8 cu.m., minimum), owned
2	unit/s	Bar Bender (electric, 25mm dia min.), owned
2	unit/s	Bar Cutter (electric, 25mm dia min.), owned
2	unit/s	Jackhammer, owned
2	unit/s	Oxy/Acetylene Cutting Outfit, owned
1	unit/s	Payloader (80 hp, minimum), owned
1	unit/s	Plate Compactor (5hp, minimum), owned
1	unit/s	Road Grader (125hp, minimum), owned
1	unit/s	Road Roller (12.05T, vibratory, minimum), owned
2	unit/s	Transit Mixer (5-6 cu.m. cap., minimum), owned/leased
1	unit/s	Tugboat (500hp, minimum), owned/leased
1	unit/s	Water Truck (1,000 gal., minimum) with pump, owned
2	unit/s	Welding Machine (400 amp., minimum), owned
1	unit/s	Cargo Truck (5 Ton, minimum), owned
1	unit/s	Backhoe breaker attachment, owned

CONSTRUCTION SAFETY AND HEALTH REQUIREMENT

The Contractor shall implement the construction safety and health program in accordance with the applicable provisions of the Occupational Safety and Health Standards (OSHS) of the Department of Labor and Employment (DOLE) including stringent covid-19 protocols per PPA Engineering Circular No. 01-2020 and Construction Guidelines for Project Implementation during the period of public health emergency approved by PDCB and CIAP.

The Contractor, subject to the approval of the Engineer shall provide and maintain throughout the duration of the contract a medical room with at least 15 square meters together with all necessary supplies to be sited in the Contractor's main area.

The Contractor shall provide the following minimum requirements:

L A B O R

1	no.	Safety Engineer / Officer
1	no.	Nurse / Health Officer

EQUIPMENT / MATERIALS

Personnel Protective Equipment

43	pcs.	Hard Hats
43	pcs.	Gloves (rubberized)
43	pcs.	Safety Glasses/Goggles (clear)
86	pcs.	Long sleeve T-shirt
4	pcs.	Aprons
4	pcs.	Safety Belts
43	pcs.	Safety Shoes
4	pcs.	Life Lines

Safety Devices

1	lot	Barricades
1	lot	Warning signs
2	unit/s	Fire extinguisher
1	lot	Disinfection Booth with Footbath
43	no.	PCR Test for Covid-19 (Initial Testing)
43	no.	PCR Test for Covid-19 (Confirmatory Testing)

Medical and First Aid System	-	Twenty-two (22) mos.
Temporary shelter for workers	-	1 lot

NOTE:

The Contractor shall provide the above-cited minimum construction safety and health requirements or as required by the Engineer.

PPA MEMORANDUM CIRCULAR
No 02
Series of 2016
Attachment

Page 1 of 10

REVISED SCHEDULE OF MINIMUM TEST REQUIREMENTS OF CONSTRUCTION MATERIALS FOR PPA INFRASTRUCTURE PROJECTS

Materials/Items of Work	*Required Tests*	*Minimum Incremental Frequency of Tests*
I. Construction of Pier/Wharf, Platform and Ramp		
Structural Concrete (SC)		
A Portland Cement	Quality Test	For every 2,000 bags (40kg) or fraction thereof
B Fine Aggregate	Quality Test for Grading, Elutriation (wash), Bulk Specific Gravity, Absorption, Mortar Strength, Soundness, Organic Impurities, Unit Weight, % Clay Lumps and Shale	For every 1,500 cubic meter or fraction thereof
C Coarse Aggregate	Quality Test for Grading, Bulk Specific Gravity, Absorption and Abrasion	For every 1,500 cubic meter or fraction thereof
D Water	Certificate from the Engineer or Quality Test for Density and Chloride Content	One per source
E Steel Bars	Mill Certificate and Quality Test for Chemical Composition and Mechanical Properties	For every 10,000 kg or fraction thereof
F Concrete	Compressive Strength on cylinder samples	1 set consisting of 3 concrete cylinder samples shall be taken from each day's pouring and to represent not more than 75 cu m of concrete or fraction thereof
	Slump Test	For every mix
G Admixture and Concrete Curing Materials	Quality Test	One per shipment
Piling (P)		
A Concrete Piles	Fabrication Report	One per fabrication
1 Concrete	Same test as for SC (F)	Same frequency as SC (F)
2 Steel Bars	Same test as for SC (E)	Same frequency as SC (E)
3 High Tension Strand	Test for Chemical Composition and Mechanical Properties	For every 20000kg or fraction thereof

Materials/Items of Work	Required Tests	Minimum Incremental Frequency of Tests
4 Coarse Aggregates	Same Test as for SC (C)	Same frequency as SC (C)
5 Fine Aggregates	Same Test as for SC (B)	Same frequency as SC (B)
B Steel Pipe Piles	Fabrication Report, Mill Certificate and Quality Test for Chemical and Mechanical properties	One per fabrication
1 Steel	Chemical Composition (refer below)	
	- Under 14" (355 60mm) Outside Diameter	2 from 200 pipe of fraction thereof
	- 14" to 36" (355 6 to 914mm) Outside Dia	2 from 100 pipe or fraction thereof
	- Over 36" (914mm) Outside Diameter	2 from 3000ft (914m) or fraction thereof
	Mechanical/Tensile	One (1) tension test shall be made on one length or fraction thereof of each size, or one piece of skelp representing each lot of 200 lengths or fraction thereof of each size
2 Polyurethane Coating	Mill Certificate and Quality Test	One per fabrication
3 Concrete	Same test as for SC (F)	Same frequency as SC (F)
4 Fine Aggregate	Same test as for SC (B)	Same frequency as SC (B)
5 Coarse Aggregate	Same test as for SC (C)	Same frequency as SC (C)
6 Steel Bars	Same Test as SC (E)	Same frequency as SC (E)
7 Water	Same Test as SC (D)	Same frequency as SC (D)
Rubber Dock Fenders (RDF)	Physical Test	All units
	Performance Test for Energy Absorption and Reaction Force	All units
Accessories		
Washer and Fixing Bolt, Anchor Bolt	Physical Test	All units
	Quality Test for Chemical Composition and Mechanical Properties	One per fabrication

Materials/Items of Work	*Required Tests*	*Minimum Incremental Frequency of Tests*
Mooring Bollard (MB) and Accessories (Hexagon Nuts, Plain Washer, Anchor Ring and Anchor Bolt)	Physical Test Quality Test for Chemical Composition and Mechanical Properties	All Units One per fabrication
II. Construction of Back-Up Area, Causeway and Pavement		
Sheet Piling (SP)		
A Concrete Sheet Piles		
1 Concrete	Same test as for SC (F)	Same frequency as SC (F)
2 Steel Bars	Same test as for SC (E)	Same frequency as SC (E)
3 High Tension Strands	Same test as for P (A 3)	Same frequency as P (A 3)
4 Fine Aggregates	Same test as for SC (B)	Same frequency as SC (B)
5 Coase Aggregates	Same Test as for SC (C)	Same frequency as SC (C)
B Steel Pipe Piles		
1 Steel	Same test as for P (B1)	Same frequency as P (B1)
2 Concrete	Same test as for SC (F)	Same frequency as SC (F)
3 Fine Aggregate	Same test as for SC (B)	Same frequency as SC (B)
4 Steel Bars	Same test as for SC (E)	Same frequency as SC (E)

Materials/Items of Work	***Required Tests***	***Minimum Incremental Frequency of Tests***
Rocks	Test for Apparent Specific Gravity and Abrasion	For every 1,500 cubic meter or fraction thereof
Geotextile Filter	Physical and Mechanical Test Mill Certificate	One per batch One per batch
Sand and Gravel Fill	Quality Test for Organic Impurities and Grading	For every 1,500 cubic meter or fraction thereof
Selected Fill	Quality Test for Grading, Plasticity and Laboratory Compaction Test Laboratory California Bearing Ratio (CBR) Field Density Test	For every 1,500 cubic meter or fraction thereof For every 2,500 cubic meter or fraction thereof For every layer of 150mm of compacted depth at least one group of three in-situ density test for every 500 sq m or fraction thereof
Aggregate Base Course	Quality Test for Grading and Plasticity Quality Test for Grading, Plasticity, Abrasion and Laboratory Compaction Test Laboratory California Bearing Ratio (CBR) Field Density Test	For every 300 cubic meter or fraction thereof For every 1,500 cubic meter or fraction thereof Same frequency as Selected Fill Same frequency as Selected Fill
Portland Cement Concrete Pavement (PCCP)		
A Portland Cement	Same test as for SC (A)	Same frequency as SC (A)
B Fine Aggregate	Same test as for SC (B)	Same frequency as SC (B)
C Coarse Aggregate	Same test as for SC (C)	Same frequency as SC (C)
D Water	Same test as for SC (D)	Same frequency as SC (D)
E Steel Bars (Dowels)	Same test as for SC (E)	Same frequency as SC (E)
F Joint Filler	Quality Test	One (1) per shipment

Materials/Items of Work	*Required Tests*	*Minimum Incremental Frequency of Tests*
G Admixture and Concrete Curing Material	Same test as for SC (G)	Same frequency as SC (G)
H Concrete	Same test as for SC (F)	Same frequency as SC (F)
	Flexural Test	3 beam samples for every 330 sq m or fraction thereof
I Completed Pavement	Core Test	1 set (3 specimen) for every 2,500 sq m and fraction thereof
Interlocking Concrete Blocks		
A Cement	Same test as for SC (A)	Same frequency as SC (A)
B Fine Aggregate	Same test as for SC (B)	Same frequency as SC (B)
C Coarse Aggregate	Same test as for SC (C)	Same frequency as SC (C)
D Water	Same test as for SC (D)	Same frequency as SC (D)
E Admixture & Concrete Curing Materials	Same test as for SC (G)	Same frequency as SC (G)
F Completed Blocks	Physical Test and Compressive Strength	6 blocks per day of fabrication
Cement Treated Base Course (CTB)		
A Portland Cement	Same test as for SC (A)	Same frequency as SC (A)
B Fine & Coarse Aggregates	Quality Test for Grading, Abrasion and Soundness	For every 1,500 cubic meter or fraction thereof
C Water	Same test as for SC (D)	Same frequency as SC (D)
D Completed CTB	Field Density Test	For every layer of 150mm of compacted depth at least one group of three in-situ density test every 500 sq m or fraction thereof
Retaining Wall/Coping Wall/RC Curb/RC Ditch/Shear Key/Concrete Blocks\Lean Concrete		
A Portland Cement	Same test as for SC (A)	Same frequency as SC (A)
B Fine Aggregate	Same test as for SC (B)	Same frequency as SC (B)

Materials/Items of Work	*Required Tests*	*Minimum Incremental Frequency of Tests*
C Coarse Aggregates	Same test as for SC (C)	Same frequency as SC (C)
D Water	Same test as for SC (D)	Same frequency as SC (D)
E Steel Bars	Same test as for SC (E)	Same frequency as SC (E)
F Admixture and Concrete Curing	Same test as for SC (G)	Same frequency as SC (G)
G Concrete	Same test as for SC (F)	Same frequency as SC (F)
Tie Rod		
A Steel	Same test as for SC (E)	One per batch
B Assembly	Performance Test (Tension)	One per batch
Tie Bars and Dowels	Same test as for SC (E)	For every 10,000 kg or fraction thereof per Tie bars and Dowels
Pipe Culverts and Storm Drains		
A Pipes	Test for Strength, Absorption and Physical	For every 50 pieces
B Mortar or Joint	Same Test as for SC (A,B and D) Alternative Test Same test as for SC (F) and Inspection Report	For every 25 pieces
Concrete Hollow Blocks		
A Portland Cement	Same test as for SC (A)	Same frequency as SC (A)
B Fine Aggregates	Same test as for SC (B)	Same frequency as SC (B)
C Water	Same test as for SC (D)	Same frequency as SC (C)
D Concrete	Same test as for SC (F)	Same frequency as SC (F)
E Completed CHB	Quality Test	One for every 500 pieces or fraction thereof
Construction Joints (CJ)		
A Angle Bars	Test for Physical and Mechanical Properties	One per batch
B Steel Bars	Same test as for SC (E)	One per batch
C Zinc (Hot Dip Galvanizing) Coatings	Physical Test for Appearance, Stripping, Weighing, Adherence and Adhesion	All units
	Coating Thickness Magnetic Thickness Measurement	1 set (3 specimen) for every 100,000 sq mm or fraction thereof

Materials/Items of Work	***Required Tests***	***Minimum Incremental Frequency of Tests***
Sacked Concrete		
A Cement	Same test as for SC (A)	Same frequency as SC (A)
B Fine Aggregates	Same test as for SC (B)	Same frequency as SC (B)
C Coarse Aggregates	Same test as for SC (C)	Same frequency as SC (C)
D Water	Same test as for SC (D)	Same frequency as SC (D)
E Concrete	Same test as for SC (F)	Same frequency as SC (F)
F Sack (jute)	Physical Test	One for every 50 pieces
Rubble Concrete		
A Cement	Same test as for SC (A)	Same frequency as SC (A)
B Fine Aggregates	Same test as for SC (B)	Same frequency as SC (B)
C Coarse Aggregates	Same test as for SC (C)	Same frequency as SC (C)
D Water	Same test as for SC (D)	Same frequency as SC (D)
E Concrete	Same test as for SC (F)	Same frequency as SC (F)
F Rocks	Same test as for ROCKS	Same frequency as ROCKS
Earthworks		
A Sub-grade preparation	Grading Test Plasticity Test (LL,PL,PI) Laboratory Compaction Test	For every 1,500 cubic meter or fraction thereof
	Density Test	For every layer of 150mm of compacted depth at least one group of three In-situ density test every 500 sq m or fraction thereof
B Structure Excavation	If excavated materials shall be used as Backfill Grading Test Plasticity Test (LL,PL,PI) Laboratory Compaction Test	For every 1,500 cubic meter or fraction thereof
	Density Test	For every layer of 150mm of compacted depth at least one group of three In-situ density test every 500 sq m or fraction thereof

Materials/Items of Work	***Required Tests***	***Minimum Incremental Frequency of Tests***
III Port Operations Building/Passenger Terminal Building/Transit Shed/Warehouse		
STRUCTURAL WORKS	Refer to Structural Concrete (SC) and Piling Works (P)	
ARCHITECTURAL WORKS		
Ceramic – Filled Liquid Membrane / Water Proofing, Hydrophobic Poreblocking Ingredients with Superplasticizer	Physical Property, Mechanical and Chemical Property, Leak Test / Flood Test	One per shipment
Paint	Quality Test	One 4-L can for every 100 cans or fraction thereof
Ceramic Tile	Inspection and Evaluation Report from the Engineer	One per shipment
Stainless Steel	Inspection and Evaluation Report from the Engineer	One per shipment
Roofing Materials	Inspection and Evaluation Report from the Engineer	One per shipment
Ceiling Materials	Inspection and Evaluation Report from the Engineer	One per shipment
ELECTRICAL AND MECHANICAL WORKS		
Wires / Cables	Inspection and Evaluation Report from the Engineer Testing and Commissioning	One per shipment
Electrical Devices	Inspection and Evaluation Report from the Engineer Testing and Commissioning	One per shipment
Fire Alarm System	Inspection and Evaluation Report from the Engineer Testing and Commissioning	One per item
Wiring Devices	Inspection and Evaluation Report from the Engineer Testing and Commissioning	One per shipment

Materials/Items of Work	Required Tests	Minimum Incremental Frequency of Tests
Protective Devices	Inspection and Evaluation Report from the Engineer Testing and Commissioning	One per shipment
Telephone System	Inspection and Evaluation Report from the Engineer Testing and Commissioning	One per item
CCTV System	Inspection and Evaluation Report from the Engineer Testing and Commissioning	One per item
CATV System	Inspection and Evaluation Report from the Engineer Testing and Commissioning	One per item
Background Music and Paging System	Inspection and Evaluation Report from the Engineer, Testing and Commissioning	One per item
Air Conditioning Units & Ventilation	Inspection and Evaluation Report from the Engineer Testing and Commissioning	One per item
Conduit Pipes	Inspection and Evaluation Report from the Engineer Testing and Commissioning	One per item
Lighting Fixtures	Inspection and Evaluation Report from the Engineer Testing and Commissioning	One per item
PLUMBING WORKS		
Pipes	Inspection and Evaluation Report from the Engineer Testing and Commissioning	One per item

Materials/Items of Work	Required Tests	Minimum Incremental Frequency of Tests
Fixtures	Inspection and Evaluation Report from the Engineer Testing and Commissioning	One per item
Pipe Culverts	Compression Strength Inspection and Evaluation Report from the Engineer	For every size not more than 25 pipes cast in the field
IV Miscellaneous Materials Fencing A Barbed Wire, Cyclone Wire Mesh, Chain Link B Concrete Post	 Physical Test (Dimensions and Coatings) Refer to Superstructure (SC)	 One per Batch Refer to Superstructure (SC)
Lamp Post A Structural Steel B Zinc (Hot Dip Galvanizing) Coatings	Physical Test (Dimensions) Same test as for SC (E) Same test as for CJ (C)	All units One per batch
Drainage Steel Grating	Same test as for SC (E) Inspection Report	One (1) batch
Metal Pipe (Cast Iron Galvanized, etc)	Physical Test (Dimensions and Coatings)	1 per delivery
Welding Works	Destructive and Non Destructive Test	One (1) per lot

NOTES
1. **Testing of RDF shall be performed only by an independent Testing Laboratory duly accredited by BRS, DOST and PPA**
2. **Testing of other materials shall be performed only by an independent Testing Laboratory duly accredited by BRS and PPA.**
3. **All other issuances which are otherwise inconsistent herewith are hereby revoked or otherwise amended.**

Approved

RAUL T. SANTOS
Officer-In-Charge,
Office of the General Manager

MAY 1 5 2020

ENGINEERING CIRCULAR NO. 01 2020

FOR	:	THE MANAGER, PCMD ALL PORT MANAGERS CONCERNED CONTRACTORS
FROM	:	THE ASSISTANT GENERAL MANAGER, ENGINEERING OFFICE
SUBJECT	:	SAFETY GUIDELINES FOR THE IMPLEMENTATION OF ALL PPA (CAPEX & RM) AND DOTr TOURISM AND SOCIAL REFORM PROJECTS DURING THE COVID-19 PUBLIC HEALTH CRISIS

Pursuant to the Proclamation No. 929, series of 2020 issued by President Rodrigo Roa Duterte, declaring a State of Calamity throughout the Philippines due to the Coronavirus Disease 2019 (COVID-19) and in view of the extended implementation of Enhanced Community Quarantine (ECQ) and General Community Quarantine (GCQ) in the identified areas, the following guidelines, in addition to the existing safety standards approved by the DOLE and also to the PPA Memorandum Circular No. 18-2020, are hereby directed to be implemented in all on-going PPA infrastructure projects including the DOTr Tourism and Social Reform projects:

1. Only persons from Twenty-One (21) to Fifty-Nine (59) years of age, without pre-existing health conditions, such as, but not limited to immunodeficiency, comorbidities or other health risk and who did not come in contact with someone with COVID-19 shall be allowed to be included in the workforce for areas under ECQ and GCQ.

2. The Contractor shall provide for their personnel/workers the necessary welfare facilities and amenities, such as employees' quarters for board and lodging for the project area covered by the ECQ and GCQ, otherwise, prior to deployment, prescribed procedures shall be conducted at every instance of re-entry.

3. Adequate food, potable drinking water, disinfectants shall be made available by the Contractors for their in-house personnel/worker during the period of ECQ/GCQ.

4. Compliance to social distancing, proper hygiene and mandatory wearing of face masks and other protective personal equipment shall be ensured for all on-going projects as precautionary measures to avoid and contain the spread of COVID-19 in the work place.

A. Bonifacio Drive, South Harbor, Port Area, Manila 1018 Philippines
P.O. Box 436 Manila, Philippines
Tel. No. (+632) 954-8800 Fax No. (+632) 527-4855
website: www.ppa.com.ph

5. Field Offices, employees' quarters, bunkhouses and other common areas shall be maintained to ensure cleanliness and daily disinfection of said areas must be conducted accordingly.

6. Contractors shall provide disinfection facilities such as handwashing station, foot bath and others to be placed at various locations of all on-going projects.

7. Contractors shall ensure that their projects are in compliance with the DOLE D.O. No. 13 series of 1998. Personnel and workers shall be provided with the supply of vitamins particularly Vitamin C and other over the counter medicines, quarantine facilities and oxygen tanks for emergency purposes.

8. Safety Officer of the Contractor shall regularly conduct briefing on the information regarding COVID-19 construction protocols on top of other safety requirements.

9. As preventive measure, daily monitoring of the pre and post work health conditions of workers shall be undertaken by the Contractor's health/safety officer particularly the temperature, blood pressure and exposure monitoring. Personnel with symptoms relative to COVID-19 shall be immediately isolated and quarantined for fourteen (14) days and if necessary, brought to the DOH COVID-19 treatment facility under strict confidentiality/privacy.

10. Daily health monitoring report shall be prepared by the Safety Officer and to be submitted to the assigned PPA Project Engineer/Port Engineer.

11. Proper protocols in accordance with the DTI and DOLE Interim Guidelines and the Local Government Unit policy on work place prevention and control of COVID-19 shall likewise be strictly observed.

12. Daily work activities shall be under strict monitoring by the Safety Officer to ensure compliance with safety standards and quarantine protocols.

13. Sharing of construction and office equipment is discouraged. However, if it cannot be avoided, disinfection of equipment in between transfer shall be conducted.

14. All materials and equipment brought inside the project site shall be disinfected, as much as possible.

15. Non-essential personnel, visitors and general public shall be restricted to enter the project site. All personnel entering the construction site premises on a temporary basis (e.g. Delivery truck drivers, inspectors, etc) shall be properly logged and checked for symptoms. Gatherings, liquors, and/or merry-making are strictly prohibited in the project site.

16. PPA Port/Resident Engineer shall ensure strict compliance to DOLE D.O. No. 13, series of 1998 and implementation of the mentioned COVID -19 precautionary measures in the work place.

17. Clustered and staggered deployment of employees within the construction site shall be observed to minimize personnel contact.

18. Contractors shall submit to the implementing unit the inventory of work activities including the proposed sequencing of activities to be followed and undertaken to comply to the required social distancing. Break times shall be conducted in a staggered manner.

For strict compliance.

CONSTANTE T. FARIÑAS, JR.

C - HCMS
① Pls. furnish a set/copies of these Guidelines to each OM for their info, reference and guidance
② OAGMG file/ref

June 29, 2020

MEMORANDUM

FOR : **The Assistant General Manager for Engineering**
Office of the Assistant General Manager for Engineering

F R O M : **The Manager**
Internal Audit Department (IAD)

SUBJECT : **Construction Guidelines for Project Implementation during the period of Public Health Emergency**

Last June 15, 2020, we received thru email the letter from the Construction Industry Authority of the Philippines (CIAP) to the General Manager dated June 15, 2020 (copy attached) regarding the above subject. CIAP is requesting PPA to assist them in disseminating the above Construction Guidelines to our stakeholders including contractors and implementing units.

Relative to this, IAD being the implementing unit for Constructors Performance Evaluation System (CPES) and relative to its implementation, may we seek assistance from your good office in disseminating the attached guidelines to the PPA Engineering Units and PPA constructors.

Thank you for your kind consideration

VENICIUS V. VILLASEÑOR

Cc: The General Manager

Attachment/s: As stated

PHIL. PORTS AUTHORITY
ENGINEERING OFFICE
PROJ. DEV'T DEPARTMENT
RECEIVED
BY: TIME:
CODE NO.

TATAG at TAPAT
BUILDING WITH INTEGRITY

Construction Guidelines for Project Implementation during the period of Public Health Emergency

Background

The President declared a state of public health emergency through Presidential Proclamation No. 922 s. 2020 to address the Corona Virus Disease (COVID-19) threat, subsequently placing the whole of Luzon under Enhanced Community Quarantine (ECQ) on 16 March 2020.

The Inter-Agency Task Force for the Management of Emerging Infectious Diseases (IATF), based on its risk assessment recommended the extension of the ECQ in high risk geographic areas in Luzon and the imposition of the ECQ in some high risk areas in Visayas and Mindanao, while proposing a General Community Quarantine (GCQ) in all low risk and moderate risk areas in the country from 1 May 2020 to 15 May 2020.

Different parts of the country are expected to progress through various levels of public health emergency and declared as high, medium, or low risk areas depending on the prevalence of COVID-19 cases and related statistics, thereby placing them under corresponding community quarantine status.

The construction industry which contributes about 4.2 million workers to the country's labor force, in anticipation of the lifting of ECQ, is getting ready to return to work and would like to ensure the safety and welfare of people, most especially those of its employees/workers. Construction industry players would like to focus on preventing the occurrence of and controlling the spread of the virus in the workplace, mindful that a single case of COVID-19 can lead to an interruption, if not total work stoppage.

The global pandemic has affected livelihoods, lifestyles and industries including the construction industry which relies heavily on human resources. Total work stoppage from the time ECQ was declared has had debilitating effects not just on workers who are mostly project based and therefore paid on a daily basis but on contractors as well, majority of whom or 88% are small and medium enterprises (SMEs).

The Philippine Domestic Construction Board (PDCB), an implementing board of the Construction Industry Authority of the Philippines (CIAP), mandated to formulate policies, plans, programs, and strategies for the development of the Philippine construction industry organized a Technical Working Group (TWG) comprised of representatives from contractors of varying sizes and suppliers coming from Luzon, Visayas and Mindanao to draft the proposed protocols for the industry in preparation for resumption of construction work in areas under quarantine. The TWG drafted the "Construction Guidelines for Project Implementation during the period of Public Health Emergency" as a reference for contractors and implementing agencies, to ensure viability of projects and protection from and spread of the corona virus.

The TWG considered four (4) major components of the project cycle, namely; Materials, Manpower, Machinery and Money or the 4Ms of construction in creating the

guidelines. These were developed considering SME contractors which employ the biggest chunk of the industry's labor workforce and large contractors involved in both public and private infrastructure projects as well as vertical construction. The guidelines will give pointers in managing their human resources at this critical time but will likewise give important directions to contractors in managing their business not just for survival but to be able to contribute to the country's economic recovery program.

The TWG is presenting options or courses of actions which contractors may consider depending on applicability to the project's unique characteristics while maintaining minimum requirements based on guidelines by government authorities such as the IATF Omnibus Guidelines for the Implementation of Community Quarantine in the Philippines, Department of Trade and Industry (DTI) and Department of Labor and Employment (DOLE) Interim Guidelines on Workplace Prevention and Control of COVID-19, and DOH Department Memorandum No. 2020-220, Interim Guidelines on the Return-to-Work.

These guidelines are subject to periodic review to better respond to developments and ensure workers health and protection as well as compliance with government regulations.

Purpose

The guidelines will set key principles and minimum requirements that define responsible, healthy and safe operations for construction related operations under COVID-19 and ensure the survival of business as well as the protection of workers.

Scope / Coverage

The guidelines will include prevention, detection, and rapid response measures designed to achieve the principles above while maintaining business continuity across the construction industry.

Policy Content / Guidelines

Materials

I. *Deliveries*
   1. All equipment and material deliveries must be carefully planned and monitored.
   2. Transition and delivery zones are identified and limited to select personnel, i.e., receivers and deliverers.
      2.1. Transition personnel are regularly monitored, always provided required Personal Protective Equipment (PPEs) and may be included for optional testing.
      2.2. Social distancing and other protocols by the Department of Health (DOH) should be followed.
   3. As much as possible, cargo is unloaded only by the receivers, while the deliverers do not leave their vehicles. If the receivers are not enough to unload the cargo, the deliverers must unload while the receiver has to wait at a secured distance until completed.

4. All cargo should undergo proper disinfection procedures before use. Likewise, involved staff should also be properly disinfected before entering the jobsite.
   4.1. Materials, which are exposed to the sun, such as concrete and gravel, need not be disinfected.

Manpower

I. Awareness and Communication

1. Active communication between the workers, safety officers *(as specified under Section 14 of R.A. 11058 and its Implementing Rules and Regulations (IRR) as specified in DOLE D.O. 198 S. 2018)*, site supervisors, and management is advised in planning and implementing the protocols.
   1.1. All languages and dialects should be accounted for to ensure proper communication.
2. Infographics (may adopt DOH's), signages, and posters on health and safety measures (see Annex A) must be posted at entry points and strategic areas:
   2.1. Daily updates on the latest developments.
   2.2. Self-screening measures.
   2.3. COVID-19 Hotline.
3. As much as possible, all workers should exercise the practices for reducing the risk of transmission, and proper hygiene as identified by the DOH:
   3.1. Social distancing [at least one (1) meter distance from next person].
   3.2. Proper handwashing using anti-bacterial soap (or use alcohol-based hand sanitizer when unavailable).
   3.3. Avoid contact with own eyes, nose, and mouth.
   3.4. Prohibit spitting.
   3.5. Covering of mouth with tissue or arm (if tissue is unavailable) when sneezing or coughing.
   3.6. Use and remove PPE with care.
   3.7. Do not share personal belongings such as phones, pens, PPEs.
   3.8. Avoid physical greetings (e.g. handshakes, hugs).
4. All workers' status on-site and off-site, are properly noted at all times by the safety officers.
   4.1. Fit to work
   4.2. Sick
   4.3. High temperature
   4.4. Other conditions
5. An acceptable level of health evaluation is properly communicated between new hires and management.
6. All workers would need to provide their location or place of residence prior to working. This is to help create a proper algorithm for contact tracing.
   6.1. Additionally, workers coming from COVID-19 hotspots would need to be identified.
7. Quarantined workers should also be kept track of under strict confidentiality and privacy.

II. Clearing for Return to Work

1. Stringent qualification criteria for employees/workers:

1.1. Must be 21 to 59-year-old, without pre-existing health conditions, such as, but not limited to, immunodeficiency, comorbidities, or other health risks, including any person who resides with the aforementioned.
1.2. Employees or consultants who are 60-year-old or above may be part of the workforce for construction projects as may be allowed under General Community Quarantine (GCQ) and ECQ guidelines under Omnibus Guidelines on the Implementation of Community Quarantine in the Philippines dated 15 May 2020 which states that those aged 60 and above may be allowed to work in permitted industries and offices.
1.3. Must have no COVID 19 symptoms.

2. Screening and entry at construction site. Item 4, Section 8 of the Omnibus Guidelines on the Implementation of Community Quarantine in the Philippines, dated 15 May 2020, states that "Compliance with Joint DTI-DOLE Return-to-Work Guidelines and DOH Return-to-Work Guidelines shall be considered sufficient compliance with minimum health standards. In no case shall the testing of all returning workers be construed as a condition precedent for his/her return." The most important screening step is checking all returning workers for symptoms within the last 14 days and excluding anyone who is symptomatic. (Annex B) Contractors have the option to test workers for COVID-19 thru DOH prescribed testing protocols to determine if there is asymptomatic transmission.
2.1. The Human Resource Department should undertake daily health pre-screening (see Annexes C & D – DOLE Work Resumption Protocol & pre-screening sample form). Returning employees/workers should be made aware of giving accurate information as specified in RA 11332.
2.2. All returning employees/workers must declare (via SMS) any recent travel history to or residence in an area with a reported case of local transmission of COVID-19 over the 14-days prior to entry.
2.3. Returning workers that do not show any symptoms will be quarantined for 14 days within the jobsite and will be allowed to work under a zoned or grouped area.
2.4. Those who have been living/confined in the barracks during ECQ/GCQ period for at least 14 days and with no symptoms, will be allowed to work immediately.
2.5. Management should have an understanding and plan on how the workers travel to and from the jobsites.
2.6. A heightened gate entrance screening protocol (see Annex E – Sample Protocol for Screening Employees and Visitors per DTI-DOLE Interim Guidelines) with the use of non-contact thermal scanners on ALL personnel upon entry to construction premises will be implemented. He/She must declare recent possible exposure to confirmed COVID-19 cases, including travel history to or residence in an area with reported local transmission of COVID-19 disease. The individual should also attest that they are not experiencing the following symptoms: (see Annex F – Daily COVID-19 Health Checklist Form)
2.6.1. Fever
2.6.2. Cough
2.6.3. Shortness of breath
2.6.4. Colds
2.6.5. Sore throat

2.6.6. Runny nose
2.6.7. Nasal congestion
2.6.8. Muscle pains
2.6.9. Headache
2.6.10. Difficulty of breathing
2.6.11. Diarrhea
2.6.12. Loss of sense of smell
2.6.13. Loss of sense of taste

2.7. Security guard or assigned personnel/ safety engineers on duty will then refer these personnel to the Safety and Health Personnel, who will then conduct the DOH Decision Tool for COVID-19 Assessment.

2.8. Employers shall provide the DOLE through its Regional Office copy furnished DOH, monthly report of illness, diseases and injuries utilizing the DOLE Work Accident/Illness Report Form (WAIR) (see Annex G).

3. Suspected Cases (Possible cases of COVID-19)

3.1. Any individual exhibiting flu-like symptoms should not report to work. Instead, they should do the following:
3.1.1. Self-isolate, alert their safety officers or other applicable authorities.
3.1.2. Contract proper health authorities for additional guidance.

3.2. Employees/workers, who had the COVID-19 virus, should do the following before reporting to work:
3.2.1. Fulfill the adequate time for self-quarantining as recommended by the DOH.
3.2.2. Test negative for COVID-19.
3.2.3. Receive proper medical clearance, before reporting to work.

3.3. In the event of a worker contracting COVID-19 while working, the management should do the following:
3.3.1. Isolate the worker immediately in a separate well-ventilated holding area (or in site isolation room) in the workplace, away from other workers.
3.3.2. Contact local government and health authorities.
3.3.3. Gather records of all people who have worked with the infected worker, who tested positive within the past four weeks.
3.3.4. Gather information on those who have been in location or shared equipment with the person.
3.3.5. Provide COVID-19 testing to all workers, who have been working closely with the infected individual.
3.3.6. Be ready to present the information to the appropriate authorities.
3.3.7. Inform the wider workforce of the situation while protecting the privacy of the individual.
3.3.8. Clean and disinfect all site surfaces and equipment.
3.3.9. Follow any additional directions from local government and health authorities.

3.4. For senior personnel, who are working in multiple jobsites, they are expected to self-quarantine for at least 14 days, if there has been a breach in one of their jobsites.

3.5. The safety officer should have a knowledge on the proximate hospitals or quarantine facilities to ensure that in the event of a COVID-19 incident, workers can be given proper healthcare.

III. Monitoring

1. Health Checks
   1.1. Regular monitoring of personnel's health, especially for COVID-19 symptoms (e.g., mandatory regular no contact temperature check).
   1.2. Day to day monitoring of personnel's health.
2. Workers Hygiene
   2.1. Constant reminder on proper coughing etiquette.
3. Limit number of Work Personnel
   3.1. Limited mobilization of personnel and minimized skeletal staff.

IV. Proper Work Attire

1. All workers must wear the prescribed clothing of the DOLE-OSHC:
   1.1. Shirt with sleeves
   1.2. Pants
   1.3. Closed-toe boots
   1.4. Hard hat
   1.5. High visibility vest
   1.6. Other necessary Personal Protective Equipment (i.e. face masks, gloves, goggles, face shields, etc.) shall be prescribed based on specific characteristics of project.
2. As per the DOH, all workers are expected to wear proper face masks.

V. Social Distancing and Precautionary Measures

1. Social distancing should be observed at the construction site and in the office:
   1.1. All workers should respect social distancing guidelines, as much as possible.
2. Provision for transport compliant with social distancing requirements.
3. Provision of On-/Near-Site accommodations/barracks, where available.
   3.1 Enough space should be provided for every employee/worker staying in the barracks to ensure that social distancing (at least 50% reduction in density of people) are adequately implemented. This can be achieved either by providing additional space/facilities or by having occupants work (and sleep) in shifts.
   3.2. Segregate employees/workers who are coming back to work from those who originally stayed in the barracks during the ECQ period.
   3.3. Barracks should have at least one (1) meter of physical distance from each occupant and/or provision of a physical barrier in between occupants.
   3.4. Should be well ventilated / windows opened to allow fresh air circulation.
4. Provision of dedicated point-to-point shuttle service (residence-workplace-residence and compliant with social distancing).
5. Observe social distancing (e.g., no sharing of workspaces, staggered lunch breaks, use of large conference rooms only) and hygiene measures (e.g., provide hand washing and disinfection stations, mandatory use of face masks) in workplaces, shuttles and accommodations.
   5.1. Split/alternating shifts are encouraged to avoid extensive intermingling.
   5.2. Breaks should be staggered to limit the number of people in proximity with each other.

5.3. Individuals are expected to clean up their own areas after eating with proper disinfectants.
5.4. Limit the number of people operating or occupying freight elevators.
5.5. Designate smoking area:
5.5.1. Smokers/vapers must use designated area or do so off-site and butts are to be placed in the designated receptacle. Hands must be washed before and after smoking.
5.5.2. Stand so that smoke or vapor produced is not going into another person's breathing zone.
5.6. Site meetings:
5.6.1. Only absolutely necessary meeting participants should attend.
5.6.2. Attendees should be one (1) meter apart from each other.
5.6.3. Rooms should be well ventilated / windows opened to allow fresh air circulation.
5.6.4. Hold meetings in open areas where possible.
5.6.5. Conduct toolbox meetings in wide open spaces to enable workers to keep the required physical distance of at least one (1) meter. (see Annex H).
5.6.6. Meetings are to be held through teleconferencing or videoconferencing, where possible.

VI. Site Operations / Construction Work Site

1. Access and Movement to/from Construction Site
   1.1. If possible, establish one-way staircases and walkways to minimize workers' contact.
   1.2. Management can look up possible decontamination chambers (e.g. swimming pool grade-chlorine).
   1.3. All people entering and exiting the workplace should be registered, for easier contact tracing in the event of an outbreak.
   1.4. All non-essential workers are prohibited from entering the jobsite.
2. Limiting and Removing internal touch points areas.
3. Compartmentalization
   3.1. If possible, divide the construction site into zones or other methods to keep workers physically separated. This will promote social distancing and will make containment of possible outbreak easier.
   3.1.1. Limit on the number of people per zone is advised.
   3.1.2. Management can consider reducing workforce in the jobsite.
4. Construction Site Cleaning
   4.1. Regular disinfection of workplaces, shuttles, and accommodations.
   4.2. All offices and jobsites should disinfect the following at least twice per day:
   4.2.1. Door handles
   4.2.2. Railings
   4.2.3. Ladders
   4.2.4. Switches
   4.2.5. Controls
   4.2.6. Shared equipment
   4.2.7. Common and eating areas
   4.2.8. Personal workstations

4.3. Hands and common tools/equipment are cleaned or disinfected after each task.
4.4. Awareness on location of commonly used items

5. All offices and jobsites should implement additional cleaning measures of common areas as recommended by the DOH.
6. Management can look up possible decontamination chambers (e.g. chlorine, iodine, betadine, potassium persulfate).
   6.1. Demisting only decontaminates the surface, thus the need for PPEs.
   6.2. Suggested additional sanitary measures to be implemented/installed on site but are not limited to the following:
      6.2.1. Water stations
      6.2.2. Proper handwashing areas and hand washing protocol.
      6.2.3. Alcohol-based hand sanitizer shall be provided in all department areas, entrances, canteens, beside hand punch machines and other facilities.
      6.2.4. Disinfectant wiping products.
      6.2.5. Footwear disinfection treatment units (foot baths) before entering site premises or facilities (staff houses, barracks, canteens/mess halls, site offices and others).
7. Limit and remove internal touch point areas (e.g. coffee machines, water fountains, common pens). If possible, also remove doors/ door handles for jobsites.
8. A proper waste and disposal area must be provided, as well as proper disposal of contaminated products.

VII. Additional Guidelines for Vertical and Horizontal Projects

1. If possible, all construction workers are to be housed in either on-site barracks, or off-site barracks. This would make monitoring of workers' activities easier.
   1.1. All workers must use the same vehicles they came into work in, if returning to the off-site barracks.
   1.2. All vehicles would need to be disinfected, before being ready for use the next day.
2. Management can also look into using the floors of buildings, as barracks, with proper permission of the owners.

Machinery

1. All equipment deliveries must be carefully planned, monitored and managed to avoid the risk of COVID-19 transmission.
2. All delivered equipment must be cleaned and disinfected before use.
3. Assign regular worker to use the equipment, if possible. If sharing cannot be prevented, take precautions and follow the cleaning guide before and after each use.
4. Clean equipment before and after each day's work with a disinfectant, concentrating on points of contact such as handles.
5. If equipment needs to be transferred to other construction sites, the following action must be taken into considerations:
   5.1. Plan, monitor and manage the transfer of equipment.
   5.2. Equipment should be disinfected before transporting.

5.3. Transporting driver must be recorded including the assistant.
5.4. At the delivery site, equipment should be properly endorsed.
5.5. Once the equipment is received at the project site, number 2, 3 and 4 must be done.

Money

Contracting parties need to discuss, before resumption or start of work, contract provisions on: Payments, Variations and Timelines considering the effects of current government health and safety standards that have to be complied with to prevent the spread of the coronavirus pandemic and ensure workers' protection from the contagious disease. Contractors' concern on cash flow, price escalation, time extensions and productivity will need to be established and agreed with project owners. Contractors need to devise project implementation plan aligned with government approved health and safety protocols.

Contractors need to familiarize themselves with Republic Act (R.A.) 11469 or Bayanihan to Heal As One Act; R.A. 11058 and its IRR as specified in DOLE D.O. 198 S. 2018, and DOLE's D.O. 13 and ensure contracts are aligned with these landmark regulations. For projects with signed contracts before the onset of the coronavirus pandemic, contractors need to check on DOLE's guidelines on drafting new contracts so provisions on employment details, i.e. accommodations, meals, etc. can be included as these are expected to be heavily affected by new guidelines on health and safety. Company code of disciplines may likewise need to be reviewed and re-written to consider pandemic guidelines and ensure employees/workers' full support and cooperation.

Pursuant to Section 21 of DOLE D.O. 198, s. 2018, *"The total cost of implementing a OSH program shall be an integral part of the operations cost. It shall be a separate pay item in construction and in all contracting or subcontracting arrangements"* to cover the cost inflected during this Public Health Emergency. Those costs include, but are not limited, to testing kits; personal protective equipment; workers' barracks; quarantine facilities; isolation rooms; disinfectants; sanitation equipment and facilities; and other expenses relative to compliance with safety and health standards during construction.

Contractors should conduct periodic audits (frequency to be determined based on a project scale and scope) to verify that the appropriate measures have been implemented and are maintained.

The site supervisors and safety officers are expected to conduct daily audits, and safety reports to management in order to make sure that the appropriate measures are implemented and followed.

Construction companies should expect to deal with heightened safety and health guidelines until such time that the pandemic has fully been eradicated, and:

1. Analyze contract requirements;
2. Comply with contractual notice requirements;
3. Adapt and Adjust schedule;
4. Coordinate and Cooperate with all participants; and

5. Document everything.

Risk Assessment and Response:

1. All contractors would need to guarantee the minimum level of standards to protect the health of the workers engaged in the construction sites.
2. Before any activity is resumed, all hazards, due to the halting of work, must be reviewed and controlled.
   2.1. Workers involved should have proper understanding of the operations and environment condition checking
3. An integrated continuity plan should also be provided in the event of a partial or complete shutdown of jobsite or if jobsite operations are severely limited.
4. All contractors should complete an integrated continuity plan to respond to partial or complete shutdown of construction sites or in the case of a severe limitation of site operations.

The COVID-19 pandemic affects working hours and earnings in all businesses, globally. However, the construction industry is unique with respect to the COVID-19 because construction contracts typically contain provisions about time for performance and fees for failing to perform on time. There is no question that all participants in the construction industry have experienced, and will continue to experience, impacts on their operations because of COVID-19 and experts say the fallout is one more factor poised to affect construction firms. These impacts include, among others, schedule delays, workforce disruptions, equipment and supply chain disruptions, reduced productivity due to on site health and safety measures (e.g., social distancing, staggering of work, enhanced sanitary measures, etc.), permit delays or restrictions on new permits, and financing restrictions or cash flow shortages.

Therefore, it is critical that construction companies be proactive rather than reactive in dealing with the COVID-19 and it is highly recommended that they take the following steps with respect to the coronavirus:

1. Define – identify the company's main vulnerabilities (convene a meeting with senior management and decision-makers to identify potential impacts on the company).
2. Assess – understand if and how the company is prepared to deal with the company's main vulnerabilities (review any existing plans and procedures to ensure they are current and begin preparing business continuity and crisis management plans and procedures aimed at minimizing potential impacts on the company).
3. Implement and Manage – ensure the company's plans and procedures work (work with senior management and decision-makers to establish and embed response and recovery arrangements and confirm senior management and decision-makers understand their roles and support how the plans and procedures will be used).
4. Communicate and Remain Vigilant – ensure the company's teams are informed (assign clear responsibilities for internal and external communications).

This pandemic was not foreseeable and unfortunately, its duration and fallout remain uncertain. What is certain is that the world is transitioning. Being prepared for this will be essential to managing the outcome and minimizing negative impacts.

Monitoring

DTI-CIAP is revitalizing its Joint Administrative Order No. 01, S. 2011 with DOLE, DPWH, DILG and the Professional Regulation Commission (PRC) to strengthen coordination and enhance the implementation of the Construction Guidelines on Project Implementation for the period of Public Health Emergency, DOLE D.O. 13 and R.A. 11058 and its IRR as specified in DOLE D.O. 198 S. 2018, and specifically, enforce strict monitoring of construction activities.

The DOLE shall refer to the Philippine Contractors Accreditation Board (PCAB) its findings, after due process, on any act or omission committed by construction contractors in violation of labor standards, safety rules and regulations and other pertinent policies.

Effectivity

These guidelines shall take effect after approval by the CIAP Board and posting in the official gazette (www.officialgazette.gov.ph) and CIAP website (www.ciap.dti.gov.ph).

References

1. *WHO – Getting your workplace ready for COVID-19, 19 March 2020*
2. *Philippines – Omnibus Guidelines on the Implementation of Community Quarantine in the Philippines as of 15 May 2020*
3. *Philippines – COVID-19 Protocols for Construction Sites Workers Safety and Security Version 3 by Philippine Constructors Association (PCA) as of 25 April 2020*
4. *Australia – Building and Construction Industry: Minimizing the Risk and exposure to COVID-19 as of 9 April 2020*
5. *Canada – COVID-19 – Standardized Protocols for all Canadian Construction Sites Version 4*
6. *New Zealand COVID-19, V&H Construction Protocols Version 2*
7. *New Zealand – COVID-19 Health and Safety Protocols for New Zealand Residential Construction Sites Version 3, 22 April 2020*
8. *DOH – Administrative Order No. 2020-015, "Guidelines on the Risk-Based Public Health Standards for COVID-19 Mitigation"*
9. *DOH Department Memorandum No. 2020-151, Interim Guidelines on Expanded Testing for COVID-19, reiterated under DOH D.M. No. 2020-174*
10. *DOH D.M. No. 2020-0220, s. 2020, Interim Guidelines on the Return-to-Work as of 11 May 2020*
11. *DPWH D.O. 39, S. 2020, Revised Construction Safety Guidelines for the Implementation of Infrastructure Projects during the COVID-19 Public Health Crisis, repealing D.O. No. 35, S. 2020*
12. *DTI - DOLE Interim Guidelines on Workplace Prevention and Control of COVID-19*
13. *DTI and DOLE Webinar on 8 May 2020*
14. *DOLE Labor Advisory No. 18, S. 2020, Guidelines on the Cost of COVID-19 Prevention and Control Measures, 16 May 2020*
15. *DOLE Department Order 13: Guidelines Governing Occupational Safety and Health in the Construction Industry*
16. *R.A.11058, "An Act Strengthening Compliance with Occupational Safety and Health Standards and Providing Penalties for Violations thereof" and its Implementing Rules and Regulations as specified in DOLE D.O. 198 S. 2018*
17. *DOLE-DPWH-DTI-DILG-PRC Joint Administrative Order No. 1, Series of 2011*

18. *EEI Guidelines on the COVID-19 Prevention and Control at the Workplace (Alert level code RED sub-level 2)*
19. *DMCI Work Resumption Protocols as of 22 April 2020*

Acknowledgment

The Construction Guidelines for Project Implementation during the period of Public Health Emergency would not have been possible without the patience, diligence and selfless dedication of the following members of the Technical Working Group (TWG) who religiously participated in the deliberations and drafting work:

Philippine Domestic Construction Board (PDCB)
Liberto V. Espiritu
Ronaldo R. Elepaño, Jr.
Dino Mae D. Suelto
Warren Simon W. King
Doris U. Gacho
Luzon
Norman K. Macapagal
Visayas
Francis Gerard S. Cañedo
Edgar B. Watin
Kevin Bling Lim
Benedict C. Uy
Mindanao
Ludwig Van A. Ledesma
Lourdes Ledesma, M.D
Ramon F. Allado
Wilfredo H. Guerzon
Philippine Constructors Association (PCA), Inc.
Randolf T. Rellera
Arlan P. Vergara
Eduardo P. Trinidad
Government
Assistant Secretary Mariano R. Alquiza – DOLE
Assistant Secretary Antonio Molano Jr. – DPWH

The Technical Working Group (TWG) was ably assisted by the following staff of the Philippine Domestic Construction Board:

Leilani d.L. del Prado
Jocelyn C. Carrasco
Nikki C. Najarro
Ariane Monique D. Balaoing
Dana Lorraine C. Faurillo
Rose Ann A. Bolitres

TATAG at TAPAT
BUILDING WITH INTEGRITY

15 June 2020

Atty. JAY DANIEL R. SANTIAGO
General Manager
Philippines Ports Authority (PPA)
Bonifacio Drive, South Harbor
Port Area, Manila

Subject: **Construction Guidelines for Project Implementation during the period of Public Health Emergency**

Dear Atty. Santiago:

Greetings!

In line with the President's declaration of Public Health Emergency in the country to address COVID-19, the **Philippine Domestic Construction Board (PDCB)**, an implementing board of the **Construction Industry Authority of the Philippines (CIAP)**, mandated to formulate policies, plans, programs, and strategies for the development of the Philippine construction industry organized a **Technical Working Group (TWG)** comprised of representatives from contractors of varying sizes and suppliers coming from Luzon, Visayas and Mindanao to *formulate protocols for the industry* for resumption of construction work in areas under quarantine.

As a result, we have developed the **"Construction Guidelines for Project Implementation during the period of Public Health Emergency"** to serve as reference for *contractors and implementing agencies*, to ensure viability of projects and protection from and spread of the coronavirus. The Guidelines were approved by the PDCB and CIAP Board on May 18 and June 2020, respectively.

These guidelines set key principles and minimum requirements that define responsible, healthy and safe operations for construction-related operations under COVID-19 and ensure the survival of business as well as the protection of workers. These guidelines include prevention, detection, and rapid response measures designed to achieve the principles above while maintaining business continuity across the construction industry.

These also present options or courses of actions which contractors may consider depending on applicability to the project's unique characteristics while maintaining minimum requirements based on guidelines by government authorities such as the IATF Omnibus Guidelines for the Implementation of Community Quarantine in the Philippines, Department of Trade and Industry (DTI) and Department of Labor and Employment (DOLE) Interim Guidelines on Workplace Prevention and Control of COVID-19, and DOH Department Memorandum No. 2020-220, Interim Guidelines on the Return-to-Work.

In this regard, may we respectfully furnish you with the copy of the approved **Construction Guidelines** (*copy attached*), for your reference. Further, may we also

PHILIPPINE DOMESTIC CONSTRUCTION BOARD
CONSTRUCTION INDUSTRY AUTHORITY OF THE PHILIPPINES
An Attached Agency of the Department of Trade and Industry
[illegible] Building Center
[illegible] Bldg. Cor. [illegible] Ave.
[illegible]
[illegible]
www.[illegible].gov.ph
[illegible] 8 897 0791
PDCB@[illegible].gov.ph

request your kind assistance in disseminating these Construction Guidelines among your stakeholders, including contractors and implementing agencies.

You may also visit CIAP's website at www.ciap.dti.gov.ph for the latest updates and version of these Construction Guidelines.

For questions and clarifications, kindly email PDCB Secretariat at pdcb@dti.gov.ph. Thank you for your usual support.

Sincerely,

DORIS U. GACHO
Executive Director, PODCB

SECTION IX

CHECKLIST OF TECHNICAL AND FINANCIAL DOCUMENTS

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class "A" Documents

Legal Documents

☐ (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages); **or**

☐ (b) Registration certificate from Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives or its equivalent document;
and

☐ (c) Mayor's or Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or the equivalent document for Exclusive Economic Zones or Areas;
and

☐ (d) Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR).

Technical Documents

☐ (e) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid; **and**

☐ (f) Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided under the rules; **and**

☐ (g) Philippine Contractors Accreditation Board (PCAB) License; **or**
Special PCAB License in case of Joint Ventures;
and registration for the type and cost of the contract to be bid; **and**

☐ (h) Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission;
or
Original copy of Notarized Bid Securing Declaration; **and**

(i) Project Requirements, which shall include the following:

☐ a. Organizational chart for the contract to be bid;

☐ b. List of contractor's key personnel (*e.g.*, Project Manager, Project Engineers, Materials Engineers, and Foremen), to be assigned to the contract to be bid, with their complete qualification and experience data;

☐ c. List of contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership or certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be; **and**

☐ (j) Original duly signed Omnibus Sworn Statement (OSS);
and if applicable, Original Notarized Secretary's Certificate in case of a corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder.

Financial Documents

- ☐ (k) The prospective bidder's audited financial statements, showing, among others, the prospective bidder's total and current assets and liabilities, stamped "received" by the BIR or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two (2) years from the date of bid submission; **and**
- ☐ (l) The prospective bidder's computation of Net Financial Contracting Capacity (NFCC).

Class "B" Documents

- ☐ (m) If applicable, duly signed joint venture agreement (JVA) in accordance with RA No. 4566 and its IRR in case the joint venture is already in existence;
  or
  duly notarized statements from all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful.

II. FINANCIAL COMPONENT ENVELOPE

- ☐ (n) Original of duly signed and accomplished Financial Bid Form; **and**

Other documentary requirements under RA No. 9184

- ☐ (o) Original of duly signed Bid Prices in the Bill of Quantities; **and**
- ☐ (p) Duly accomplished Detailed Estimates Form, including a summary sheet indicating the unit prices of construction materials, labor rates, and equipment rentals used in coming up with the Bid; **and**
- ☐ (q) Cash Flow by Quarter.

SECTION X

BIDDING FORM

Bid Form for the Procurement of Infrastructure Projects

[shall be submitted with the Bid]

BID FORM

Date : _____
Project Identification No. : _____

To: **Philippine Ports Authority**
PPA Building, Bonifacio Drive,
South Harbor, Port Area, Manila

Having examined the Philippine Bidding Documents (PBDs) including the Supplemental or Bid Bulletin Numbers _____, the receipt of which is hereby duly acknowledged, we, the undersigned, declare that:

a. We have no reservation to the PBDs, including the Supplemental or Bid Bulletins, for the Procurement Project: **Rehabilitation/Improvement of Claveria Port, Port of Claveria, Taggat Norte, Cagayan**;

b. We offer to execute the Works for this Contract in accordance with the PBDs;

c. The total price of our Bid in words and figures, excluding any discounts offered below is: _____;

d. The discounts offered and the methodology for their application are: _____;

e. The total bid price includes the cost of all taxes, such as, but not limited to: *[specify the applicable taxes, e.g. (i) value added tax (VAT), (ii) income tax, (iii) local taxes, and (iv) other fiscal levies and duties],* which are itemized herein and reflected in the detailed estimates,

f. Our Bid shall be valid within the period stated in the PBDs, and it shall remain binding upon us at any time before the expiration of that period;

g. If our Bid is accepted, we commit to obtain a Performance Security in the amount of _____ percent of the Contract Price for the due performance of the Contract, or a Performance Securing Declaration in lieu of the the allowable forms of Performance Security, subject to the terms and conditions of issued GPPB guidelines[1] for this purpose;

h. We are not participating, as Bidders, in more than one Bid in this bidding process, other than alternative offers in accordance with the Bidding Documents;

i. We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed; and

[1] currently based on GPPB Resolution No. 09-2020

j. We understand that you are not bound to accept the Lowest Calculated Bid or any other Bid that you may receive.

k. We likewise certify/confirm that the undersigned, is the duly authorized representative of the bidder, and granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for the **Rehabilitation/Improvement of Claveria Port, Port of Claveria, Taggat Norte, Cagayan** of the **Philippine Ports Authority**.

l. We acknowledge that failure to sign each and every page of this Bid Form, including the Bill of Quantities, shall be a ground for the rejection of our bid.

Name: _____

Legal Capacity: _____

Signature: _____

Duly authorized to sign the Bid for and behalf of: _____

Date: _____

STATEMENT OF ALL ON-GOING GOVERNMENT AND PRIVATE CONTRACTS, INCLUDING CONTRACTS AWARDED BUT NOT YET STARTED, WHETHER SIMILAR OR NOT SIMILAR IN NATURE

Name of the Contract or Title Of the Project 1]	Owner's Name and Address	Nature/ Scope of Work 2]	Contractor's Role (in percentage) 3]	Total Contract Value At			Date of Award 5]	Value of Outstanding Works	Estimated Time of Completion	% of Accomplishment		Contract Duration 5]	
				Award	Project Completion	Escalated Value to Present Prices 4]				Planned	Actual	Start	Completed
A) Government Contracts i. On-going ii. Awarded but not yet started B) Private Contracts i. On-going ii. Awarded but not yet started													

NOTE:

1] As appearing or defined in the contract entered/executed by the parties
2] With special reference to the Scope of Works as described/enumerated in the advertised Invitation To Bid.
3] Indicate whether as Sole Contractor, Sub-Contractor or Member in a Joint Venture / Consortium
4] Indicate the FOREX used if Contract Value is expressed in a currency other than the Philippine Peso. Specify the "Escalation Factor" used to escalate the Contract Value from completion date to the advertisement date of the Invitation to Bid per section 23.11.2 (3) of R.A. 9184.
5] State Month and Year.

This Statement shall be supported by:
a) Notice of Award and/or Contract
b) Notice to Proceed

Name of Firm/Applicant

Authorized Signing Official

Date

STATEMENT OF THE BIDDER'S SINGLE LARGEST COMPLETED CONTRACT (SLCC) SIMILAR TO THE CONTRACT TO BE BID

Name of the Contract or Title Of the Project	Owner's Name and Address	Nature/Scope of Work	Contractor's Role and Percentage Of Participation	Total Contract Value At			Date of Award	Value of Outstanding Works	Contract Duration	
				Award	Completion	Escalated Value to Present Prices			Start	Completed

NOTE :

1. The prospective bidder must have completed an SLCC that is similar to the contract to be bid, and whose value, adjusted to current prices using the PSA consumer price indices, must be at least fifty percent (50%) of the ABC to be bid.

2. This Statement shall be supported by:

   a. Notice of Award and / or Notice to Proceed.
   b. Project Owner's Certificate of Final acceptance issued by the owner other than the Contractor or Constructors Performance Evaluation System (CPES) Final Rating, which must be at least satisfactory.

Name of Firm/Applicant

Authorized Signing Official

Date

EXPERIENCE RECORD ON SIMILARLY COMPLETED PROJECTS

Similar Major Categories of Work 1]	Unit of Measure	Quantity	Title of the Project	Title of the Project	Title of the Project	Title of the Project	Unit of Measure	Quantity
1. Pile Driving Works (Off-shore)	l.m.	2,798						
2. Reinforced Concrete Works	cu.m.	656						
3. Rockworks (50-100kg./pc.)	cu.m.	3,756						
4. Placing of Fill Materials	cu.m.	21,789						
5. Portland Cement Concrete Pavement	sq.m.	5,144						

NOTE: 1] Submit the Certificate of Completion/Certificate of Acceptance by the project owner, Final Recapitulation/Bill of Quantities and/or Constructor Performance Evaluation System (CPES) ratings, 1st, 2nd & Final visit (if applicable). Projects with no Certificate of Completion/Acceptance and Recapitulation/Bill of Quantities shall not be considered.

2] The Owner's Certificate of Final Acceptance; or the Constructors Performance Evaluation Summary (CPES) Final Rating and/or the Certificate of Completion, must be satisfactory.

Name of Firm/Applicant | Authorized Signing Official | Date

(Revised Form : September 2012)

FINANCIAL DATA

A. The prospective bidder's audited Financial Statements, showing, among others, the prospective bidder's total and current assets and liabilities, stamped "RECEIVED" by the Bureau of Internal Revenue (BIR), or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two (2) years from the date of bid submission.

	Year
1. Total Assets	
2. Current Assets	
3. Total Liabilities	
4. Current Liabilities	
5. Net worth (1-3)	
6. Net Working Capital (2-4)	

B. The computation of the bidders Net Financial Contracting Capacity (NFCC) must be at least equal to the ABC to be bid, as follows:

NFCC = [(Current assets minus current liabilities) (15)] minus the value of all outstanding or uncompleted portions of the projects under ongoing contracts, including awarded contracts yet to be started coinciding with the contract to be bid.

NFCC = _____

Attached herewith are certified true copies of the audited financial statements stamped received by the BIR or BIR authorized collecting agent for the latest/immediately preceding calendar year.

_____
Name of Firm/Applicant

_____
Authorized Signing Official

Date:_____

NOTES:

If Partnership or Joint Venture, each Partner or Member Firm of Joint venture shall submit separate financial statements.

LIST OF CONTRACTOR'S PERSONNEL

I hereby declare that the following key personnel enumerated below, with attached resume/bio-data, including valid PRC License, for the various positions / functions, are available for the project applied for:

Position of Key Personnel	Name	No. of Key Personnel	Similar Experience in the Position (Years) 1]	Total Experience in the Position (Years)	Attachment(s)	Annex(es)
Project Manager					PRC License (CE Preferred) Complete Qualification and Experience Data Certificate of Commitment	Annex "_"
Project Engineer					PRC License (CE Preferred) Complete Qualification and Experience Data Certificate of Commitment	Annex "_"
Materials Engineer					PRC License (CE Preferred) Submit Valid and Renewed DPWH Certificate of Accreditation Submit Accreditation Identification Card as Materials Engineer Complete Qualification and Experience Data Certificate of Commitment	Annex "_"
Construction Safety and Health Officer					Certificate of Safety and Health Construction Related Course issued by DOLE Accredited Trainings Complete Qualification and Experience Data Certificate of Commitment	Annex "_"
Foreman					Complete Qualification and Experience Data Certificate of Commitment	Annex "_"
Other Position(s)					Complete Qualification and Experience Data Certificate of Commitment	Annex "_"

NOTE: 1. Minimum qualification requirements: (work experience is similar in nature and complexity to the project to be bid with regard to Registration Particulars of the Contractor's License)

Project Manager - Five (5) years
Project Engineer - Three (3) years
Foreman - Five (5) years
Construction Safety and Health Officer – *One (1) year*

Materials Engineer – One (1) year
Materials Engineer I – for projects costing up to 100M
Materials Engineer II – for projects costing more than 100M

Name of Firm/Applicant

Authorized Signing Official

Date

REVISED FORM (September 2012)

LIST OF CONTRACTOR'S EQUIPMENT UNITS

I hereby declare that the following equipment listed below which are owned, leased or under purchase agreement are in good operating condition and are available for the duration of the project:

DESCRIPTION (Type, Model, Make)	No. of Unit(s)	Capacity Output 2]	Owned, Leased and/or under purchase agreement 1]	Submitted Proof of Ownership/Leased/ Purchase Agreement (Mark as Annex "A……Z")	OTHER INFORMATIONS (As Applicable)				
					Manufacturer	Engine Serial No.	Chassis No./ Name of Vessel	Location	Status

1] Indicate if owned or leased as listed in the Checklist/Bidding Documents. For owned equipment, as required, submit proof of ownership (i.e. deed of sale, sales invoice, official receipt). For Water Truck, Dump Truck and Transit Mixer submit LTO Certificate of Registration and valid Official Receipt. For owned barge/tugboat, submit Marina Certificate of Ownership and valid Cargo Ship Safety Certificate. For newly purchased barge/tugboat, submit Deed of Sale together with an application for Marina Certificate of Ownership duly received/authenticated by Marina with corresponding valid Cargo Ship Safety Certificate. For leased equipment, submit duly notarized copy of lease contract together with a copy of the Marina Owner's (Lessor's) Certificate and valid Cargo Ship Safety Certificate.

2] The unit of each equipment shall be as indicated in the Checklist/Bidding Documents, i.e GW (for crane barge), DWT (for deck barge and hopper barge), TON (for crane, road roller and drop hammer), kg.-m/blow (for diesel hammer), cu.m (for dump truck), hp. (for tugboat, road grader, bulldozer and concrete vibrator), cfm (for compressor), gal. (for water truck with pump), amp. (for welding machine), bagger (for concrete mixer).

Name of Firm/Applicant

Authorized Signing Official

Date

REVISED FORM (January 2011)

Omnibus Sworn Statement for Sole Proprietorship

[shall be submitted with the Bid]

REPUBLIC OF THE PHILIPPINES)
CITY/MUNICIPALITY OF _____) S.S.

AFFIDAVIT

I, _____, of legal age, [Civil Status], [Nationality], and residing at _____, after having been duly sworn in accordance with law, do hereby depose and state that:

1. I am the sole proprietor or authorized representative of _____ with office address at _____;

2. As the owner and sole proprietor, or authorized representative of _____, I have full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for **Rehabilitation/Improvement of Claveria Port, Port of Claveria, Taggat Norte, Cagayan** of the **Philippine Ports Authority**, as shown in the attached duly notarized Special Power of Attorney;

3. [Name of Bidder] is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, **by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting;**

4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;

5. [Name of Bidder] is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;

6. The owner or sole proprietor is not related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

7. *[Name of Bidder]* complies with existing labor laws and standards; and

8. *[Name of Bidder]* is aware of and has undertaken the responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:

   a. Carefully examining all of the Bidding Documents;
   b. Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
   c. Making an estimate of the facilities available and needed for the contract to be bid, if any; and
   d. Inquiring or securing Supplemental/Bid Bulletin(s) issued for the *[Name of the Project]*.

9. *[Name of Bidder]* did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.

10. **In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.**

IN WITNESS WHEREOF, I have hereunto set my hand this __ day of ___, 20__ at _____, Philippines.

_____
Name of Bidder/ Authorized Representative
(Signatory's Legal Capacity)
AFFIANT

[Jurat]
[Format shall be based on the latest Rules on Notarial Practice]

Omnibus Sworn Statement for Partnership or Cooperative

[shall be submitted with the Bid]

REPUBLIC OF THE PHILIPPINES)
CITY/MUNICIPALITY OF _____) S.S.

AFFIDAVIT

I, _____, of legal age, [Civil Status], [Nationality], and residing at _____, after having been duly sworn in accordance with law, do hereby depose and state that:

1. I am the duly authorized and designated representative of _____ with office address at _____;

2. I am granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for **Rehabilitation/Improvement of Claveria Port, Port of Claveria, Taggat Norte, Cagayan** of the **Philippine Ports Authority**, as shown in the attached [state title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate, Board/Partnership Resolution, or Special Power of Attorney, whichever is applicable;)];

3. [Name of Bidder] is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, **by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting;**

4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;

5. [Name of Bidder] is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;

6. None of the officers and members of *[Name of Bidder]* is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

7. *[Name of Bidder]* complies with existing labor laws and standards; and

8. *[Name of Bidder]* is aware of and has undertaken the responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:

   a. Carefully examining all of the Bidding Documents;
   b. Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
   c. Making an estimate of the facilities available and needed for the contract to be bid, if any; and
   d. Inquiring or securing Supplemental/Bid Bulletin(s) issued for the *[Name of the Project]*.

9. *[Name of Bidder]* did not give or pay directly or indirectly, any commission, amount, fee, or any

form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.

10. **In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.**

IN WITNESS WHEREOF, I have hereunto set my hand this __ day of ___, 20__ at _____, Philippines.

_____
Name of Bidder/ Authorized Representative
(Signatory's Legal Capacity)
AFFIANT

[Jurat]
[Format shall be based on the latest Rules on Notarial Practice]

Omnibus Sworn Statement for Corporation or Joint Venture

[shall be submitted with the Bid]

REPUBLIC OF THE PHILIPPINES)
CITY/MUNICIPALITY OF _____) S.S.

AFFIDAVIT

I, _____, of legal age, [Civil Status], [Nationality], and residing at _____, after having been duly sworn in accordance with law, do hereby depose and state that:

1. I am the duly authorized and designated representative of _____ with office address at _____;

2. I am granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for **Rehabilitation/Improvement of Claveria Port, Port of Claveria, Taggat Norte, Cagayan** of the **Philippine Ports Authority**, as shown in the attached [state title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate, Board/Partnership Resolution, or Special Power of Attorney, whichever is applicable;)];

3. [Name of Bidder] is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, **by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting;**

4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;

5. [Name of Bidder] is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;

6. None of the officers, directors, and controlling stockholders of *[Name of Bidder]* is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

7. *[Name of Bidder]* complies with existing labor laws and standards; and

8. *[Name of Bidder]* is aware of and has undertaken the responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:

   a. Carefully examining all of the Bidding Documents;
   b. Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
   c. Making an estimate of the facilities available and needed for the contract to be bid, if any; and
   d. Inquiring or securing Supplemental/Bid Bulletin(s) issued for the *[Name of the Project]*.

9. *[Name of Bidder]* did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or

representative of the government in relation to any procurement project or activity.

10. **In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.**

IN WITNESS WHEREOF, I have hereunto set my hand this __ day of ___, 20__ at _____, Philippines.

_____
Name of Bidder/ Authorized Representative
(Signatory's Legal Capacity)
AFFIANT

[Jurat]
[Format shall be based on the latest Rules on Notarial Practice]

Bid Securing Declaration Form

[shall be submitted with the Bid if bidder opts to provide this form of bid security]

REPUBLIC OF THE PHILIPPINES)
CITY OF _____) S.S.

BID SECURING DECLARATION
Project Identification No.: _____

To: **Philippine Ports Authority**
PPA Building, Bonifacio Drive,
South Harbor, Port Area, Manila

I/We, the undersigned, declare that:

1. I/We understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid Securing Declaration.

2. I/We accept that: (a) I/we will be automatically disqualified from bidding for any procurement contract with any procuring entity for a period of two (2) years upon receipt of your Blacklisting Order; and, (b) I/we will pay the applicable fine provided under Section 6 of the Guidelines on the Use of Bid Securing Declaration, within fifteen (15) days from receipt of the written demand by the procuring entity for the commission of acts resulting to the enforcement of the bid securing declaration under Sections 23.1(b), 34.2, 40.1 and 69.1, except 69.1(f),of the IRR of RA No. 9184; without prejudice to other legal action the government may undertake.

3. I/We understand that this Bid Securing Declaration shall cease to be valid on the following circumstances:

   a. Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
   b. I am/we are declared ineligible or post-disqualified upon receipt of your notice to such effect, and (i) I/we failed to timely file a request for reconsideration or (ii) I/we filed a waiver to avail of said right; and
   c. I am/we are declared the bidder with the Lowest Calculated Responsive Bid, and I/we have furnished the performance security and signed the Contract.

IN WITNESS WHEREOF, I/We have hereunto set my/our hand/s this ____ day of *[month] [year]* at *[place of execution]*.

_____
Name of Bidder/ Authorized Representative
(Signatory's Legal Capacity)
AFFIANT

[Jurat]
[Format shall be based on the latest Rules on Notarial Practice]

CONSTRUCTION METHODOLOGY

Name of Project : _____

Proposed Project Description : _____

Location : _____

MINIMUM SCOPE OF CONSTRUCTION METHODOLOGY

A. DEMOLITION, REMOVAL AND EXCAVATION WORKS

1. Demolition & disposal of existing concrete pavement (1,402 sq.m.)
2. Demolition & disposal of existing curb, seat and deflector wall (428 cu.m.)
3. Excavation of existing seabed (9,403 cu.m.)
4. Excavation and backfilling of fill materials (98 cu.m.)
5. Extraction of existing rocks 1,518 cu.m.)
6. Removal of existing concrete blocks (994 pcs.)

B. BACK-UP AREA WITH RO-RO RAMP ON-FILL

1. Supply, delivery & driving of Steel Sheet piles (575 m.t.; 5,596 l.m.)
2. Supply & installation steel waling (36,703 kg.)
3. Cutting of newly driven Sheet Piles (494 nos.)
4. Supply & installation of tie-rods of various sizes (126 sets)
5. Reinforced concrete works (1,311 cu.m.)
6. Supply & installation of core rocks (7,512 cu.m.)
7. Supply & placing of fill materials (43,577 cu.m.)
8. Reinstallation of newly removed concrete blocks (459 pcs,)
9. Construction of PCC pavement (10,287 sq.m.)
10. Supply & installation of rubber dock fenders (5 sets)
11. Supply & installation of mooring bollards (2 sets)
12. Construction of security fence and gate (153 l.m.)
13. Port lighting and drainage system (1 lot)

NOTES:

The narrative construction method will guide and familiarize the contractor and the PPA on how the project shall be carried out in accordance with the highest standard of workmanship.

The construction method shall be consistent with the Bar Chart / S-Curve Schedule, Equipment Schedule and Manpower Schedule.

_____
Signature
(Authorized Signing Official)

MANPOWER SCHEDULE

Name of Project : _____

Proposed Project Description : _____

Location : _____

MANPOWER (Minimum)	CONTRACT DURATION (_____ Calendar Days)																					
	MONTHLY																					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Project Manager																						
Project Engineer																						
Materials Engineer																						
Construction Safety and Health Officer																						
Foreman																						
Specify other applicable positions, ie.:																						
- Carpenter																						
- Steelman																						
- Mason																						
- Electrician																						
- Rigger																						
- Others																						

_____
Signature
(Authorized Signing Official)

EQUIPMENT UTILIZATION SCHEDULE

Name of Project : _____

Proposed Project Description : _____

Location : _____

EQUIPMENT (Minimum)	No. of Units	CONTRACT DURATION (_____ Calendar Days)																					
		M O N T H L Y																					
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22

_____
Signature
(Authorized Signing Official)

CASHFLOW BY QUARTER AND PAYMENT SCHEDULE

Name of Project: : _____

Proposed Project Description : _____

Location : _____

Project Duration (days or months)	Payment Schedule (Monthly, in Pesos)	Cash flow (Quarterly, in Pesos)

Contract Agreement Form for the Procurement of Infrastructure Projects (Revised)

[not required to be submitted with the Bid, but it shall be submitted within ten (10) days after receiving the Notice of Award]

CONTRACT AGREEMENT

THIS AGREEMENT, made this _____ day of _____, _____ between **Philippine Ports Authority** with principal office at PPA Building, Bonifacio Drive, South Harbor, Port Area, Manila (hereinafter called the "Entity") and **[name and address of Contractor]** (hereinafter called the "Contractor").

WHEREAS, the Entity is desirous that the Contractor execute **[name and identification number of contract]** (hereinafter called "the Works") and the Entity has accepted the Bid for **[contract price in words and figures in specified currency]** by the Contractor for the execution and completion of such Works and the remedying of any defects therein.

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.

2. The following documents as required by the 2016 revised Implementing Rules and Regulations of Republic Act No. 9184 shall be deemed to form and be read and construed as part of this Agreement, *viz.*:

   a. Philippine Bidding Documents (PBDs);
   - i. Drawings/Plans;
   - ii. Specifications;
   - iii. Bill of Quantities;
   - iv. General and Special Conditions of Contract;
   - v. Supplemental or Bid Bulletins, if any;

   b. Winning bidder's bid, including the Eligibility requirements, Technical and Financial Proposals, and all other documents or statements submitted;

   Bid form, including all the documents/statements contained in the Bidder's bidding envelopes, as annexes, and all other documents submitted (*e.g.*, Bidder's response to request for clarifications on the bid), including corrections to the bid, if any, resulting from the Procuring Entity's bid evaluation;

   c. Performance Security;

   d. Notice of Award of Contract and the Bidder's conforme thereto; and

   e. Other contract documents that may be required by existing laws and/or the Procuring Entity concerned in the PBDs. **Winning bidder agrees that additional contract documents or information prescribed by the GPPB that are subsequently required for submission after the contract execution, such as**

the Notice to Proceed, Variation Orders, and Warranty Security, shall likewise form part of the Contract.

3. In consideration for the sum of **[total contract price in words and figures]** or such other sums as may be ascertained, **[Named of the bidder]** agrees to **[state the object of the contract]** in accordance with his/her/its Bid.

4. The **Philippine Ports Authority** agrees to pay the above-mentioned sum in accordance with the terms of the Bidding.

IN WITNESS whereof the parties thereto have caused this Agreement to be executed the day and year first before written.

JAY DANIEL R. SANTIAGO General Manager	**Name of Bidder/ Authorized Representative** (Signatory's Legal Capacity)
for:	for:
Philippine Ports Authority	**Contractor**

Acknowledgment

[Format shall be based on the latest Rules on Notarial Practice]