

e. Sealer

- e. 1. Shall be a commercial penetrating type free from harmful alkali or acid content specially prepared for marble work
- e. 2. Shall have a Ph factor between 7 and 9
- e. 3. Shall not discolor
- e. 4. Shall produce a slip resistant surface
- e. 5. Shall have a flash point not less than 35 °C

f. Cleaning fluid

- f. 1. Shall be commercial neutral liquid type especially prepared for marble work
- f. 2. Shall have a Ph factor between 7 and 9
- f. 3. Shall be free from crystallizing salts or water soluble alkaline salts
- f. 4. Shall be biodegradable and phosphate free

4. Phenolic Board Toilet Partition System

Phenolic Compact Board also known as solid phenolic, is a paper fiber-based solid surface material that is warmer to the touch than typical acrylic or polyester materials.

Phenolic anti-bacterial water proof toilet partition 20 mm thick including stainless hinges, locks, bottom support, door knobs and coat hooks.

FLOOR FINISHES**1. Vitrified Ceramic Unglazed Tiles**

- a. Vitrified ceramic unglazed floor tiles shall be color varies and as shown on the drawings or to be designated by the Architect.
- b. Portland Cement, sand and water shall conform with the requirements.
- c. Vitrified ceramic unglazed floor tiles shall be delivered in the manufacturer's original unbroken packages or containers that are labeled plainly with the manufacturer's name and brand. Containers shall be grade sealed. Materials shall be stored in dry weathertight enclosures, and shall be handled in a manner that will prevent the inclusion of foreign materials and damage by water or dampness.

2. Non-skid floor finished shall be applied to ramps.**3. Waterproof finish for all roof deck.**

EXECUTION**WALL FINISHES****1. Plain Cement Finish****a. Preparation of Surfaces**

All surfaces shall be cleaned and projections, dust, loose particles and other materials, which would prevent good bond, shall be removed.

Plaster shall not be applied directly to concrete and masonry surfaces coated with bituminous compounds and surfaces previously painted or plastered.

All surfaces shall be thoroughly wetted before plastering.

b. Trial Mix

A trial mix of at least three (3) different water-cement ratios for a proposed mix shall be prepared under full scale conditions and adequate workability. The proportions by weight of cement to the weight of sand shall not be less than one part of Portland cement to two parts of sand.

The proportion of cement-sand and water necessary to produce the cement plaster of the required consistency shall be subject to the approval of the Engineer. Such approval may be withdrawn at any time and a change in proportions may be required. Based on the approved mix proportions, the Contractor shall prepare a list showing the number of kilograms of the various materials to be used in the cement plaster finish mix.

No cement plaster finish shall be started without an approved trial mix by the Engineer.

c. Cement Finish Application

A brown coat with sufficient pressure shall be applied to fill the gaps, and to secure a good bond. Moistened for 48 hours, each coat of cement plaster shall be kept after application and allow to dry.

A finish coat shall be applied after the brown coat has set. The brown coat shall be moistened before application of the finish coat. Finish coat shall be floated to plumb, even planes and surfaces.

Final plaster finishes shall be rubber sponged.

d. Tolerance

The Contractor shall finish plaster work plumb, level, square and true within tolerance of 3mm in 3 meters, without cracks and other imperfections.

e. Patching and Cleaning

Upon completion of the building, and when directed, all loose, cracked, damaged or defective plastering shall be cut out and re-plastered in a satisfactory and approved manner.

2. Wall Tiles

a. Mortar Preparation

All mortar setting beds shall be mixed by volume in the proportion of 1 part Portland cement and 3 parts dry sand and not more than 1/10 part hydrated lime.

Mortar materials shall be measured in approved containers, which will insure that the specified proportions of materials will be controlled and accurately maintained during the progress of the work. Measuring materials with shovels, "shovel count", will not be permitted. Unless specified otherwise, mortar shall be mixed in proportions by volume, in an approved mortar box.

The quantity of water shall be controlled accurately and uniformly. The aggregates shall be introduced and mixed in such manner that the materials will be distributed uniformly throughout the mass. A sufficient amount of water shall be added gradually and the mass further mixed until a mortar of the elasticity necessary for purpose intended is obtained. Mortar boxes, pans and wall surfaces shall be kept clean and free from debris or dried mortar. The mortar shall be used before the initial set of the cement has occurred. Re-tempering of mortar in which cement has started to set will not be allowed.

b. Application of Wall Tile

Interior masonry shall be clean, thoroughly dry, sound and sufficiently rough to provide strong mechanical bond. Surfaces shall be evenly damped immediately prior to the application of the scratch coat.

Scratch coat shall be applied to masonry, as backing for wall tile, not less than 24 hours or more than 48 hours before starting the tile setting. The scratch coat shall not be less than 6 mm from the face of the masonry. The scratch coat shall be applied with sufficient pressure to ensure a proper bond with the base for the setting bed. While the mortar is still plastic, the scratch coat shall be cut with a trowel at all internal vertical angles for the depth of the coat with the full height of the tile bed and shall be cross-scratched, in 25 mm centers for the extent of the tile bed.

Immediately before the application of mortar setting bed, the scratch coat shall be moistened thoroughly but not saturated. Temporary screeds shall be applied to the scratch coat with mortar to provide a true and plumb surface, the proper distance back from the finished wall line. The setting bed shall be applied, rodded and floated flush with the screeds over an area not greater than the area to be covered with the tile while the bed remains plastic. The thickness of the setting bed shall not exceed 15mm and the mortar shall not be re-tempered. The setting bed shall be cut with a trowel at all internal corners as specified for the scratch coat.

Mounted tiles shall be soaked in clean water a minimum of one hour before they are set. Absorptive mounted tiles shall be damped by placing sheets on a wetted cloth in a shallow pan before setting. A skim coat of neat Portland cement mortar, mixed with water to the consistency of a pasty, thick cream, shall be applied 0.8mm to 1.6mm thick to the mortar setting bed, or to the back of each tile as laid. The tiles shall then be pressed firmly on the setting bed and tamped until flush and in the plane of the other tiles. The tiles shall be applied before the mortar bed has taken its initial set.

Intersections and returns shall be formed accurately. Where cutting of tiles is necessary it shall be done at the internal angles of the walls or wainscots. Cutting

and drilling tiles shall be done neatly without marring the surfaces. The cut edges of tiles against trim, built-in fixtures, and similar surfaces shall be ground and jointed carefully. The tiles shall fit closely with plumbing fixtures and around electric outlets, pipes and fittings, so that the plates or escutcheons will properly overlap the tiles. Wainscots shall be within one half of the heights indicated without cutting of the tiles.

Bases, caps, bull-nose corners, and all other trimmers moulded or shaped features, and accessories shall be backed thoroughly with mortar and set firmly into place. All lines shall be kept straight and true, and all finished surfaces brought to true and even planes, straight and plumb, and internal corners squared and external corners rounded.

Horizontal joints shall be maintained level and vertical joints plumb and in alignment. The completed work shall be free of broken, cracked, damaged or otherwise faulty tiles.

Joints shall be parallel and uniform in width, plumb, level and in alignment. End joints in broken-joint work shall be made as far as practicable, on the center line of adjoining tiles. Except in special arrangement and design, as indicated or specified, square tiles shall be set with straight joints, and oblong tiles shall be set with broken joints.

Joint widths shall be uniform and spaced to accommodate the tile in the given spaces with a minimum of cutting. Tiles shall be wetted, if they have become dry, before applying grout. Joints 3mm or less in width shall be grouted with a neat Portland cement grout of the consistency of thick cream. Other joints shall be pointed with mortar consisting of one part Portland cement and two parts pointing sand. The grout for walls and other vertical surfaces shall contain non-staining white Portland cement. Grout and pointing mortar shall be forced into joints by using trowel, brush or finger application.

Before the grout or mortar sets, the joints of cushion edge tiles shall be struck or tooled to the depth of cushion, filling all skips or gaps, and the joints of square edge tiles shall be filled completely flush with their surface. Dark cement shall not show through grouted white joints. Care shall be taken to avoid scratching glazed finishes. All mortar or grout shall be removed before it has set or hardened.

c. **Cleaning and Curing**

All completed tile work shall be thoroughly sponged and washed diagonally across joints, and finally polished with clean, dry cloth. Acid cleaning of unglazed tile, when necessary, shall not be done within ten days after setting tile. All metal shall be covered with an approved grease and the tile shall be wetted with clean water, before tile is cleaned with 10% muriatic acid solution. After acid cleaning, the tile shall be flushed with clean water, and the grease coating on metal shall be removed. Acid cleaners shall not be used on glazed tile.

d. **Protection**

Tiled walls outside corners (external angles) shall be protected with board corner strips in areas used as passage ways by workmen. Extreme care should be taken not to disturb wall tiled until mortar has fully set.

3. Painting Works

a. Surface Preparation

Allow new masonry to dry for 14 days (for exterior surfaces) to 28 days (for interior surfaces) under normal conditions before painting. Surface to be painted should be clean and dry, free from oil, grease, dirt, dust, contaminants, and all loose grit and mortar.

Without mesh:

1st Coat: Elastomeric Wall Covering Sealer

2nd and 3rd Coat: Elastomeric Wall Covering Basecoat

4th Coat: Elastomeric Wall Covering Topcoat

With mesh:

1st Coat: Elastomeric Wall Covering Sealer

2nd Coat: Elastomeric Wall Covering Basecoat
Reinforcing Membrane: Fiberglass Matting

3rd and 4th Coat: Elastomeric Wall Covering Basecoat

5th Coat: Elastomeric Wall Covering Topcoat

FLOOR FINISHES

1. Vitrified Ceramic Tiles

a. Mortar Preparation

Mortar mix proportion and preparation shall be in accordance with the requirements.

b. Surface Preparation

Surfaces to receive the tiles shall be clean, free of dust, dirt, oil, grease, and other deleterious substances. Floor tile operations in spaces receiving wall tile shall not be started until wall tile installation has been completed. Before tile is applied with a dryset mortar bed, the structural floor shall be tested for levelness or uniformity of slope by flooding it with water. Areas where the water ponds shall be filled and leveled with mortar and shall be retested before the setting bed is applied.

c. Placing of Setting Beds and Floor Tile

Mortar setting beds shall have a minimum thickness of 20mm for floors. The structural concrete slab shall be soaked thoroughly with clean fresh water on the day before the setting bed is to be applied. Immediately preceding the application of the setting bed, the structural slab shall again be wetted thoroughly, but no free water shall be permitted to remain on the surface.

A skim coat of neat Portland cement mortar shall then be applied not more than 4mm thick. The mortar shall be spread until its surface is true and even and thoroughly compacted, either level or sloped uniformly for drainage, as the case

requires. A setting bed, as large as can be covered with tile before the mortar has reached its initial set, shall be placed on one operation; but in the event that more setting mortar has been placed than can be covered, the unfinished portion shall be removed and cut back to a clean beveled edge.

All mounted tiles shall be soaked in clean water a minimum of one hour before they are set. Absorptive mounted tile shall be dampened by placing sheets on a wetted cloth in a shallow pan before setting. No free water shall remain on the tiles at the time of setting. Before the initial set has taken place in the setting bed, a skim coat of neat Portland cement mortar, 0.7mm to 1.6mm thick, shall be trowelled or brushed over the setting bed and/or the back of the tile, or a thin layer of Portland cement, 0.79mm to 2mm thick, may be hand-dusted uniformly over the setting bed and worked lightly with a trowel or brush until thoroughly damp.

The tiles shall then be pressed firmly upon the setting bed, and beaten into the mortar until true and even with the plane of the finished floor line. Beating and leveling shall be completed within one hour after placing tiles or sheets. Borders and defined lines shall be laid before the field or body of the floor. Where floor drains are provided, the floors shall be sloped to drain properly to the drains. Intersections and returns shall be formed accurately.

Cutting of tile, where necessary, shall be done along the outer edges of the floor. As far as practicable, no tiles of less than half size shall be used. Cutting and drilling of tiles shall be done neatly without marring the tile surfaces. The cut edges of tile against trim, bases, thresholds, pipes, built-in fixtures, and similar surfaces shall be ground and jointed carefully. Tile shall fit closely and neatly at all plumbing fixtures and around electrical outlets, pipes and fittings so that cover plates or escutcheons will overlap the tiles properly. Tiles shall be secured firmly in place and loose tiles or tiles sounding hollow shall be removed and replaced. All lines shall be kept straight, parallel, and true, and all finished surfaces brought to true and even planes. The inner edges of borders shall be kept straight and, where practicable, shall form right angles at all returns. The paper and glue shall be removed from mounted tile, without using excess water, within one hour after installing the tiles.

Joints shall be parallel and uniform in width, plumb, level and in alignment. End joints in broken-joint work shall be made as far as practicable, on the center lines of adjoining tiles. Except in special arrangement and design, as indicated or specified, square tiles shall be set with straight joints, and oblong tiles shall be set with broken joints.

Joint widths shall be uniform and spaced to accommodate the tile in the given spaces with a minimum of cutting. Tiles shall be wetted, if they have become dry, before applying grout. Joints 3.2 mm or less in width shall be grouted with a neat Portland cement grout of the consistency of thick cream. Other joints shall be pointed with mortar consisting of one part Portland cement and two parts pointing sand. The grout or mortar for joints on floors shall be white Portland cement or as specified by the Engineer. Grout pointing mortar shall be forced into joints by using trowel, brush or finger application. Before the grout or mortar sets, the joints of cushion edge tile shall be struck or tooled to the depth of the cushion, filling all skips or gaps, and the joints of square edged tiles shall be filled completely flush with their surface. Dark cement shall not be seen through grouted white joints.

All surplus mortar or grout shall be removed before it has set or hardened.

d. **Cleaning and Curing**

Floors shall be covered with waterproofed paper with all joints lapped at least 96 mm and allowed to damp cure for at least 72 hours before foot traffic is permitted thereon.

All completed tile work shall be thoroughly sponged and washed diagonally across joints, and finally polished with clean, dry cloth. Acid cleaning of unglazed tile, when necessary, shall not be done within ten days after setting the tile. All metal shall be covered with approved grease and the tile shall be wetted with clean water, before tile is cleaned with 10% muriatic acid solution. After acid cleaning, the tile shall be flushed with clean water, and the grease coating on metal shall be removed.

Finished tile floors shall be covered with clean building paper before foot traffic is permitted on them. Board walkways shall be placed on floors that are to be continuously used as passage ways by workmen. Thresholds shall be covered with boards. Tiles vertical outside corners (external angles) shall be protected with board corners strips in areas used as passage by workmen.

3. Plain Cement Floor Finish with Non-metallic Floor Hardener

a. Trial Mix

No plain cement floor finish work shall be started without the approval of the Engineer of the trial mix.

b. Application

The concrete sub-floor shall be cleaned and projection, dust, loose particles and other materials which would prevent good bond shall be removed. The sub-floor surface shall be moistened but not soaked, dry cement shall then be sprinkled over it and the mortar shall be spreaded on the setting bed. The surface shall be tamped to assure a good bond over the entire area and screeded to provide a smooth and level bed at proper height.

Mortar mix shall be one part Portland cement to three parts sand. Following the placing of leveling concrete on the floor and after the concrete is free from excess water, a dry mixture of 2 parts of floor hardener and 1 part Portland cement shall be uniformly dusted over the floor. Three kilograms of floor hardener shall be used for every square meter of flooring or in accordance with approved manufacturer's specifications. The dry mixture shall be floated thoroughly into the surface which shall be finished by steel trowelling and cured by water or curing compound for seven (7) days.

4. Protection

- a. Before turn over of the building to the Owner, wash pebble surfaces with 1 part muriatic acid to 6 parts clean water.
- b. Apply an overlapping strokes of water shield using brush or by low pressure spraying. Dries to a tack-free surface in 4-6 hours and cures to form an effective water repellant film in approximately 24 hours.
- c. Protect finished surface with specified hardeners and sealants.

INSTALLATION OF DOORS

1. Surface Preparation

Ensure surfaces to receive panels are structurally sound, even, smooth, clean, dry, and

free from defects detrimental to work.

DOORS AND WINDOWS

DOORS

- D-1 - Steel panel door (core filled) type in steel door jambs and headers with class A door knob, barrel bolt with padlock set, appropriate signage and other accessories. (.800m x 2.10m)
- D-2 - Steel panel door (core filled) with bottom louver type in steel door jambs and headers with class A door knob, barrel bolt with padlock set, appropriate signage and other accessories. (.800m x 2.10m)
- D-3 - Steel panel door (core filled) with bottom louver type in steel door jambs and headers with class A door knob, barrel bolt with padlock set, appropriate signage and other accessories. (1.00m x 2.10m)

INSTALLATION OF WINDOWS

1. Surface Preparation

Ensure surfaces to receive panels are structurally sound, even, smooth, clean, dry, and free from defects detrimental to work.

- W-1 1.5mm thk. Steel Framed Powder Coated Awning Type Window with 10mm Thk. Reflective Tempered Glass (W-1) (1.20m x 0.40m)
- W-2 1.5mm thk. Steel Framed Powder Coated Awning Type Window with 10mm Thk. Reflective Tempered Glass (0.60m x 0.40m)
- W-3 1.5mm thk. Steel Framed Powder Coated Awning Type Window with 10mm thk. Reflective Tempered Glass (2.40m x 1.20m)
- W-4 1.5mm thk. Steel Framed Powder Coated Awning Type Window with 10mm thk. Reflective Tempered Glass (1.20m x 1.20m)

ITEM 18 : PAINTING

GENERAL

General Requirements contain provisions and requirements essential to these Specifications; and apply to this section, whether or not referred to herein.

SCOPE OF WORK

This Section covers the surface preparation, coating materials and application of coatings systems required for the Works.

The work shall consist of furnishing of all labor, materials, equipment and other incidentals necessary for the supply of painting materials and the complete painting of surfaces as shown on the drawings in accordance with this Specification and as directed by the Engineer.

The term paint as hereinafter used includes emulsion paints, varnishes, oils, pigments, thinner and dryers.

All exposed metal surfaces, except metal surfaces embedded in concrete, shall be painted unless otherwise specified.

STANDARD

The following publications listed below, but referred to thereafter by basic designation only, forms a part of these Specifications to the extent indicated by the reference thereto:

Steel Structures Painting Council (SSPC) U.S. Specification JIS K 5628 Red-lead Zinc Chromate Anti-Corrosive Paint.

SUBMITTAL

1. The Contractor shall submit work method statements with lists of materials to the Engineer for approval twenty-eight days before the starting of works. This statement shall include following items:
 - a. Type of paint and manufacturer
 - b. Manufacturer's specifications
 - c. Storage and delivery of materials
 - d. Surface preparation
 - e. Finish painting and drying
 - f. Touch-up painting, if any
 - g. Equipment
2. The Contractor, before placing order for the painting materials, shall submit to the Engineer for approval samples of materials. No placing of orders for material shall be made without his approval.

STORAGE AND DELIVERY

1. The Contractor shall deliver all material to the site in the original labeled sealed cans and containers, with labels intact and seal unbroken.
 - a. Seals shall remain unbroken until after inspection and acceptance of material by the Engineer.

- b. The Contractor shall deliver materials in ample quantities sufficiently in advance of the need to avoid any delay or interruptions in the works.
2. Paint in thinner shall be stored in accordance with the approved manufacturer's instructions.
- a. All regulations required for storage of paint shall be observed and all necessary safety signs required by governing codes shall be posted.
 - b. Any damage caused by failure to exercise proper precautions in paint storage shall be repaired.

MATERIAL REQUIREMENTS

PAINT

Paints for the protective coating system shall be the product of a manufacturer approved by the Engineer.

Paints for exterior finish must be with tile like durability and elegance, fast drying, solvent based acrylic, highly suitable for coastal or polluted areas with excellent anti-fungus properties and alkali resistance.

100% Acrylic, water based, quick-drying, easy to clean-up and environmentally friendly, resist dirt, stains, alkali, water, humidity, algae, mold and mildew growth and highly durable paint for interior finish.

An all-purpose synthetic quick dry paint for all types of wood and metal surfaces. It has high gloss, good color retention and outstanding durability.

For pipes, valves and equipment, galvanized and ungalvanized ferrous metal, use a 100% acrylic gloss paint, has excellent resistance to ultraviolet rays and resists chalking, cracking and color fading, dries fast and environmentally friendly.

SCHEDULE OF PAINTING

Paint manufacturers shall be BOYSEN, DAVIES or approved equal.

Architectural Items	
a. Exterior Finishes	
1. On Concrete Walls	
Three Coats, Concrete Masonry Paint	Boysen Titan Superflex, Elastomeric Paint or approved equal
2. Unprimed Ferrous Metal	
First Coat	Boysen Red Oxide Primer, #310 or approved equal
Second & Third Coat	Boysen Quick Dry Enamel or approved equal
Three Coats Concrete Masonry Paint	Boysen Titan Superflex Elastomeric Paint

	or approved equal
3. On Wood	
First Coat Exterior Wood Primer	Boysen Flatwall Enamel or approved equal
Second & Third Coat Exterior enamel	Boysen Quick Drying Enamel or approved equal
b. Interior Finishes Location of the various finishes are listed in the Finish Schedule on the drawings or else will be confirmed by PPA	
1. On primer and coated metal two coats of interior semi-gloss enamel or as indicated in the Schedule finish	Boysen Red Oxide Primer #310, Boysen Quick Dry Enamel or approved equal
2. On Plaster	
First Coat	Boysen Masonry Neutralizer #44 or approved equal
Three Coats	Boysen Titan Superflex, Elastomeric Paint or approved equal
3. On Wood	
First Coat Enamel undercoater	Boysen Flatwall Enamel or approved equal
Second & Third Coat Exterior enamel	Boysen Quick Drying Enamel or approved equal
4. Wood Stain Finish	
First Coat Second & Third Coats Fourth & Fifth Coats	Boysen Oil Wood Stain , Boysen Lacquer Sanding Sealer #1254 Boysen Clear Gloss Lacquer #1250 or approved equal
c. Non – Architectural Items (Piping, valves, equipment, etc.)	
1. Piping, valves, equipment etc. in rooms are to be painted	
2. Galvanized pipes and ducts	
Primer – one coat	Boysen Red Oxide Primer, #310 or approved equal
Finish – one coat	Boysen Quick Dry Enamel or approved equal
3. Black steel pipes	
Primer – one coat	Boysen Red Oxide Primer, #310 or approved equal
Finish – one coat	Boysen Quick Dry Enamel or approved equal
4. Mechanical Items	
a. Ungalvanized ferrous metal Primer – one coat	Boysen Red Oxide Primer,

Finish – one coat	#310 or approved equal Boysen Quick Dry Enamel or approved equal or approved equal
b. Galvanized ferrous metal Primer – one coat Finish – one coat	Boysen Red Oxide Primer, #310 or approved equal Boysen Quick Dry Enamel or approved equal or approved equal
c. Submerged galvanized ferrous metal Primer – one coat	Boysen Red Oxide Primer, #310 or approved equal
d. Buried miscellaneous ferrous surface valves, & flanged joints (excl. pipe) Primer – one coat	Boysen Red Oxide Primer, #310 or approved equal

EXECUTION

SURFACE PREPARATION OF STEEL

1. Steel surfaces shall be cleaned as follows:
 - a. All round welds, burrs and sharp surface projections shall be ground smooth and all weld splatter shall be removed prior to blast cleaning.
 - b. Sand abrasives, if used, shall be clean, and free from salt and extraneous matter. The sand shall pass through a 2.0mm test sieve, and be substantially retained on a 0.18mm test sieve, with at least 25 percent retained on a 0.355mm test sieve.
 - c. Metallic abrasive, if used, shall be sharp, hard and free from dust, and shall pass through a 1.8 mm test sieve.
 - d. Blast cleaning operations shall not be conducted on surfaces that will be wet after blasting and before coating, or when the surfaces are less than 10°C above degree points, or when the relative humidity of the air is greater than 95 percent.
 - e. Any oil, grease, soil, dust or other foreign matter deposited on the cleaned surfaces shall be removed prior to painting. In the event that rusting occurs after completion of the surface preparation, the surfaces shall be cleaned again in accordance with the specified method.
 - f. Particular care shall be taken to prevent the contamination of other corrosive chemicals before the application of the paint. Such contamination shall be removed from the cleaned surface by flash blasting and the paint applied immediately.
 - g. Care shall be taken to prevent contamination of cleaned and painted surfaces by cleaning operations in an adjacent area.
 - h. Surfaces not to be painted shall be suitably protected from the effects of cleaning and painting operations.

SURFACE PREPARATION OF WOOD

1. Wood surfaces shall be sanded to a fresh surface. Surface mould where present, shall be removed by washing, rubbing down and burning off as necessary. Resinous exudation and large knots shall be removed and replaced with filler or other materials approved by the Engineer.
2. Parts of timber to be enclosed in walls shall always be primed unless already impregnated. Priming shall be brushed on and a minimum of two coats applied to end grain. When the priming paint is hard, all cracks, holds, open joints, etc. shall be made good with hard stopping and rubbed down with fine abrasive paper. Priming of joinery shall be applied only on site after the Engineer has approved such joinery and before it is fixed. For internal surfaces primer coats shall be carefully flattened.

SURFACE PREPARATION OF CONCRETE AND PLASTER

Concrete and cement plaster surfaces to be painted shall be prepared by removing efflorescence, dust, dirt, grease, oil, asphalt, tar, excessive mortar and mortar dropping and by roughening to remove glaze. A zinc sulfate solution shall be applied before prime coat.

SURFACE PREPARATION FOR FIBER CEMENT SURFACES

Shall be dry and clean prior to application of the specified first-coat material. Oil, grease, or rust stains shall be carefully removed by the use of suitable solvent. Wire brushing will not be permitted. After the first coat has become dry and prior to application of finish coats, touch-up coats shall be applied to suction spots.

ALUMINUM FRAMES FOR DOORS AND WINDOWS

All metal surfaces shall undergo pre-treatment process which includes: desmutting, water-rinsing, degreasing/etching, water rinsing, zinc phosphating, water rinsing and acid rinsing.

Powder coating application, shall be factory applied and shall be done in one operation using an electro-static powder gun. The materials to be coated should be well connected to earth. Coating thickness should be kept to a minimum of 60 microns for exposed areas. On details which are to be treated mechanically after coating (drilling, sawing, etc.), the coating film must not exceed 100 microns.

The powder coating shall be oven cured in the range of 20 minutes at 220° C (metal temperature measured on the area with greatest metal thickness). The temperature variation in the oven should not exceed +/- 10° C.

Handling

Coated items should be cooled to no less than 40° Centigrade before handling. Precautions should be taken to avoid damages on the finished coating during stacking, storing and transportation.

Storage and Delivery

Inspect materials delivered to the site for damage. Unload and store with minimum handling. Provide storage space in dry location with adequate ventilation, free from dust or water and easily accessible for inspection and handling. Store materials neatly on the floor, properly stacked on non-absorptive strips or wood platforms. Protect finished surfaces during shipping and handling using manufacturer's standard method.

WOOD REPAIR

Badly decayed areas shall be removed and repaired. Areas and pieces decayed beyond repair shall be replaced with new pieces that match originals in all respects. Moderately decayed areas, weathered, or gouged wood shall be patched with approved patching compounds, and shall be sanded smooth. The source or cause of wood decay shall be identified and corrected prior to application of patching materials. Wet wood shall be completely dried to a moisture content not exceeding 12 percent, as measured by a moisture meter, to its full depth before patching, unless otherwise authorized. Wood that is to be patched shall be clean of dust, grease, and loose paint.

1. Epoxy Wood Repair

Epoxy wood repair materials shall be applied in accordance with manufacturer's written instructions. Health and safety instructions shall be followed in accordance with the manufacturer's instructions. Clean mixing equipment shall be used to avoid contamination. Mix and proportions shall be as directed by the manufacturer. Batches shall be only large enough to complete the specific job intended. Patching materials shall be completely cured before painting or reinstallation of patched pieces.

2. Epoxy Consolidant and Epoxy Paste

Epoxy liquid wood consolidant shall be used:

1. To penetrate and impregnate deteriorated wood sections in order to reinforce wood fibers that have become softened or absorbent.
2. As a primer for areas that are to receive epoxy paste filler. Epoxy paste shall be used to fill areas where portions of wood are missing such as holes, cracks, gaps, gouges, and other voids.

MIXING AND THINNING

Mixing and thinning of paint shall be done in accordance with the approved manufacturer's printed instructions. The pot life of each paint as stated by the manufacturer shall not be exceeded.

WEATHER CONDITION

The paint shall not be applied when the relative humidity is above 85 percent. The paint shall not be applied in rain, wind, fog, dust or mist.

APPLICATION

Workmanship shall be first class in every respect. All work shall be done in a workmanship manner so that the finished surfaces shall be free from runs, chop, ridges, waves, laps and unnecessary brush marks. All coats shall be applied in such manner as to produce an even film of uniform thickness. Edges, corners, crevices, welds and rivets shall receive special attention to ensure that they receive an adequate thickness of paint.

All painting shall be done by thoroughly experienced workmen.

Safety regulations shall be adhered to at all times, including the wearing of respirators by persons engaged on assisting in spray painting. Adjacent areas and installation shall be protected by the use of cloths or other approved precautionary measures.

Plain enamel and varnish shall be applied carefully with good clean brushes or approved spraying equipment, except that the initial coat on any surface shall be applied with brush. Sufficient

time shall be allowed between coats to assure thorough drying and each coat shall be in proper condition before receiving the next coat.

Sanding and dusting as required shall be performed between coats in varnishing work. Finish coat shall be smooth and free from runs, sags, and other defects. Exterior paint shall not be applied during rainy days.

All paint when applied shall provide a satisfactory film and smooth, even surface. Paint shall be thoroughly stirred and kept at a uniform consistency during application. Powdered metallic pigments added at the time of use shall be mixed by adding the powder in small increments to about one-third of the base paint or vehicle, with thorough mixing to obtain a smooth paste. The remainder of the base paint shall then be thoroughly stirred in.

Different brands of emulsion paints shall not be mixed prior to application of the materials.

Where necessary to suit conditions of surface temperature, weather and method of application, the package paint may be thinned immediately prior to application in accordance with the approved manufacturer's directions, but not in excess of 125 cc of suitable thinner per liter (one pint per gallon). Before using, the paint shall be mixed to a uniform consistency and shall be stirred frequently during application.

Paints other than water-thinned paints shall be applied only to surfaces which are completely free of moisture as determined by sight or touch and only such combinations of humidity to be painted as will cause evaporation rather than condensation.

Surfaces which have been cleaned, pretreated and/or otherwise been prepared for painting shall be primed or painted with one coat of finish paint as soon as practicable after such preparation has been completed, but in any event prior to any deterioration of the prepared surfaces.

The first coat of paint on all exterior surfaces shall be applied by brush. Interior prime coats and all other subsequent coats on either exterior or interior surfaces may be applied by brush or spray. Whenever spraying is permitted all areas inaccessible to spray painting shall be coated by brushing or other suitable means. Brushes to be used for application of water-emulsions shall be soaked in water for a period of 2 hours prior to use.

All cloths and cotton waste which might constitute a fire hazard shall be placed in closed metal containers or destroyed at the end of each day.

Upon completion of the work, all staging, scaffolding, and containers shall be removed from the site or destroyed in a manner approved by the Engineer. Paint spots, or stains upon adjacent surfaces shall be removed and the entire job left clean and acceptable to the Engineer.

No smoking shall be permitted in the vicinity where painting is going on.

TOUCH-UP PAINTING

Touch-up painting shall be done with the same paint as used for the original coat. The resulting minimum dry film shall be the same as for the original coat.

Touch-up painting shall include cleaning and painting of field connections, welds and all damaged or defective paint and rusted areas.

During touch-up painting, only loose, cracked, brittle or non-adherent paint shall be removed during cleaning. All exposed edges shall be feathered. Touch-up painting shall be performed in a manner which will minimize damage to sound paint. Rust spots shall be thoroughly cleaned and edges of the existing paint shall be scraped back to sound material.

DRYING

1. No primer or paint shall be forced to be dried under conditions which will cause cracking, wrinkling, blistering, formation of pores which would detrimentally affect the condition of the paint.
2. No drier shall be added to the paint unless specified in the approved manufacturer's instructions.
3. Painted surfaces shall be protected from dust, dirt, and the elements of the weather until dry to the fullest extent practicable.
4. After drying, any areas of paint damaged from any cause shall be removed, the surface again prepared and then touched-up with the same paint and to the same thickness as the undamaged areas as specified in sub-section 4.14.3.7 above.

HANDLING

1. Precautions shall be taken to minimize damage to paint films resulting from stacking for drying.
2. Paint which is damaged in handling shall be scraped off and touched-up with the same paint and in the same thickness as was previously applied to the damaged area at Contractor's expense.

INSPECTION

1. All works and materials supplied under this Specification shall be subject to inspection by the Engineer.
2. The Contractor shall correct such works or replace such materials found defective under these Specifications at his own expense.

ITEM 19 : CONCRETE WATERPROOFING

GENERAL

General Requirements contain provisions and requirements essential to these specifications and apply to this Section, whether or not referred to herein.

SCOPE OF WORK

The work shall cover the waterproofing requirements for building as shown on the drawings.

The work shall consist of furnishing all labor, materials, equipment and other incidentals necessary for the integral waterproofing works where required as shown on the drawings and in accordance with the requirements of these specifications as directed by the Engineer.

SUBMITTAL

1. The Contractor shall submit for approval of the Engineer the name of the manufacturer nominated for the supply of materials and installation. Sub-contracting documents shall be submitted to the Engineer by the Contractor.
2. The Contractor shall submit the procedure of waterproofing application for approval of the Engineer.
3. Waterproofing materials shall be applied only by an experienced applicator and shall be applied in accordance with the approved manufacturer's application procedures or methods, approved by the Engineer.

PRODUCT HANDLING

Materials shall be delivered and dosed to the batching plant/s in the sealed drums and packages bearing the manufacturer's name.

ALTERNATIVE

No substitution of materials shall be made unless authorized in writing by the Engineer prior to starting the work of waterproofing.

MINIMUM GUARANTEE PERIOD

The Contractor shall guarantee the work for a minimum guarantee period of ten (10) years. The Contractor shall make sub-contract agreement with approved manufacturer in which following conditions shall be included:

1. Minimum guarantee period of (10) years after the issuance of Take-Over Certificate.
2. The Contractor shall transfer all the rights to the Employer free of charge after the issuance of Taking-Over Certificate.

MATERIAL REQUIREMENTS

All concrete such as Slab and Beam at Roof Deck, Cistern Tank and Water Tanks, shall be waterproofed by the addition of HYDROPHOBIC POREBLOCKING INGREDIENT (HPI) named 3CC product or approved equivalent complying with items 6, 7 and 8 of the minimum requirement stipulated below and approved by the Engineer. The dosage of 3CC shall be at the rate of 15 liters per cubic meter of concrete and shall be combined with SUPERPLASTICISER at the manufacturer's recommended rate.

Furthermore, concrete containing 3CC shall comply strictly with the following minimum requirements:

1. The concrete cement (OPC) content shall not be less than 350 kg per cubic meter or minimum of 300 kg per cubic meter of Ordinary Portland Cement (OPC) and 80 kg per cubic meter of Fly Ash (using Fly Ash) or Concrete Compressive Strength shall be at least 30 MPa.
2. The water content shall be reduced to adjust for the 3CC usage and maintain the required workability;
however, the water/cement ratio must not exceed 0.45)P
3. Steel Reinforcement shall be using hard rib deformed bars.
4. Other details of 3CC concrete shall be conforming to current recommendations and requirements.
5. A trial mix must be conducted prior to construction and the cement content is to be stated on the premix concrete dockets.
6. The concrete shall contain HYDROPHOBIC POREBLOCKING INGREDIENT(HPI) named 3CC in such a way that the concrete shall have a corrected 30 minute water absorption of not greater than 1.50 % as measured by BS 1881:Part 122:1983 except that the age at test shall be 7 days.
7. The product to be used must be proven by an independent authority to have had no reduction in performance after field exposure for a minimum of 15 years.
8. The 3CC concrete performance shall be warranted for 10 years including construction joints, pipe projections and tie rod points.
9. The Engineer reserves the right to require the concrete as placed and cured in the actual structure to comply with the water absorption limit within 7 days of placement. The Contractor shall provide costing for water absorption testing by an independent laboratory, and if so required, samples shall be taken during construction as directed by the Engineer. These samples shall be tested according to BS 1881: Part 122:1983 and shall conform with the water absorption requirement. The Engineer further reserves the right to take cores from the structure to confirm compliance.

CURING COMPOUND

Curing of HPI Concrete shall be using CALCURE B or approved equivalent

WATERSTOP

All construction joints, pipe projections, floor drains and tie rod points shall be using waterstop, a controlled expansion waterstop, an active butyl rubber based waterstop which activates after approximately 5 - 10 days of constant exposure to water. The waterstop material should not expand prematurely and should not absorb water from the fresh concrete poured against it.

FLOODTESTING

Floodtest for a duration of 48 hours shall be undertaken upon completion of waterproofing installation to determine any leakage or defect on the materials and/or workmanship.

ITEM 20 : SIGNAGES

SCOPE OF WORK

Furnish materials and perform labor to include miscellaneous works required for the installation of room identification for the toilets and port office.

SAMPLE AND SHOP DRAWINGS

The Contractor shall submit samples for approval by the Engineer. For the room I.D. and port name signage, full size lettering layout and installation method shall be submitted to the Engineer for approval before start of work.

MATERIAL REQUIREMENTS

ROOM MARKERS

Black acrylic letters, 38mm (1-1/2") high on white acrylic background, 63mm (2-1/2") high, with clear acrylic cover. Lengths shall be as required by the full notation therein.

PORT NAME SIGNAGE

Hot dipped metal sheet cut out letters saying "PORT OF DAVILA", 450mm high (4.5mm thick) screwed at the back. Lengths shall be as required by the full notation therein.

EXECUTION

WORKMANSHIP

Workmanship shall be executed in high quality comparable with artworks.

MOUNTING

For all mounted assemblies, appropriate mounting hardware and connectors which are concealed shall be sufficiently used.

Assemblies shall be mounted plumb, straight, level, and at prescribed heights.

INSTALLATION

Installation shall be done in a secure and permanent manner at prescribed heights and/or layout. The backwall shall not be mutilated. After the dowels are positioned, fill with expanding grout, or other approved fillers, and retouch, flashed to the backwall surface.

ITEM 21 : FACILITIES AND DEVICE FOR PERSONS WITH DISABILITY

SCOPE OF WORK

The work shall consist of furnishing materials, tools, labor and incidentals necessary for the construction/installation of facilities and device for disabled persons as shown on the Drawings and in accordance with the Implementing Rules and Regulations of Batas Pambansa Bilang 344 and this Specification.

MATERIAL REQUIREMENTS

GRAPHIC SIGNS

Graphic signs like the International Symbol of Access shall be fabricated from plastic materials, white color with either dark blue background. Letters and symbols shall be laminated and raised from the background.

HANDRAILS

Handrail for ramp shall be 50mmØ tubular stainless steel buff finished. It shall be provided with a small hole as of a Braille system.

GRABRAIL

Grab rail shall be manufactured from gauge 18 tubular stainless steel 50mmØ and provided with safety grip finish.

CONCRETE MATERIALS FOR RAMPS

1. Portland cement shall conform with the requirement of "Reinforced Concrete".
2. Aggregates shall conform with the requirements of "Reinforced Concrete".
3. Temperature bars shall have diameter of 10mm conforming with the requirements of "Concrete Works".

EXECUTION

GRAPHIC SIGNS

1. Directional and information signs, indicating the location of the ramp for physically handicapped persons, shall be installed / placed at the front of the main entrance of the Terminal Building. The signed board size and dimensions shall be based on DOTr approved Standard Design, schedule 40, sign post and the text and arrow shall be in accordance with the International Symbol of Access "B". Manual (See attached drawings and tabulation).

2. Signs shall be placed at the entrance and exits of the ramps and toilets, installed at conspicuous locations. The signboards shall be based on DOTC approved Standard Design Manual (See attached drawings and tabulation).

RAMP

The ramp shall be constructed as shown on the drawings and with a nonskid surface and tactile strips.

GRABRAILS

Lavatories, urinals and water closets of the Terminal Shed where indicated on the drawings shall be provide with grab rails. The position and distance from the floor shall be as shown on the drawings.

ITEM 22 : PLUMBING AND SANITARY WORKS**SCOPE OF WORK**

The work covered for this section shall consist of furnishing all labor, tools, equipment, materials and incidentals necessary for the complete installation, testing and operation of the plumbing and sanitary system within the buildings and premises in accordance with these Specifications and as shown on the drawings or as directed by the Engineer. The septic tank and their effluent and discharge pipelines shall be part of other section of these specifications.

MATERIAL REQUIREMENTS**SUBMITTAL**

1. The Contractor shall submit his work method statement with necessary shop drawings to the Engineer for approval twenty-eight (28) days before the start of the works.

Shop drawings shall be dated and shall contain the name of the project and location of the subject item in the shop drawing which is to be installed.

The Engineer will review and approve or return for correction all shop drawings with reasonable promptness. The Contractor shall make any corrections required and file with the Engineer three (3) corrected copies of the shop drawings.

2. The drawings shall indicate the general arrangement of all pipings, however, where actual conditions necessitate re-arrangement in opinion of the Contractor and/or the Engineer, the Contractor shall prepare and submit to the Engineer for approval, twenty eight (28) days before placing the order for materials, shop drawings of the proposed re-arrangement. Because of the small scale of the drawings, shop drawings to indicate all offsets, fittings and accessories shall be prepared. The Contractor shall carefully examine the drawings and shall carefully investigate actual structural and finish conditions affecting all his work.
3. The Contractor shall be responsible for the proper fitting of materials, equipment and accessories without substantial alteration and at no cost to the Employer.
4. The Contractor shall be responsible for the proper coordination of the work and shall provide all necessary clearance where necessary.

STANDARDS

Use of materials shall further be governed by other requirement imposed on other sections of these Specifications. Materials shall be subject to tests necessary to ascertain their fitness if the Engineer so requires. All works shall comply with the pertinent provisions of the Plumbing Code of the concerned city or town, the Code on Sanitation of the Philippines, and/or the National Plumbing Code of the Philippines.

MATERIALS

1. Identification of Materials

Each length of pipe, fittings, traps, fixtures and devices used in the plumbing work shall have cast, stamped or indelibly marked on it, the approved manufacturer's trademark or name, the weight, type and class of product when so required by the standards mentioned above.

2. Alternative Materials

Use of any material not specified in this Specification may be allowed provided such alternate has been approved by the Engineer and provided further that a test, if required, shall be done by an approved agency in accordance with generally accepted standards.

3. Soil, Waste, Drain, Vent Pipes and Fittings

Soil, waste and vent pipes shall be unplasticized Polyvinyl Chloride (uPVC) pipes. Diameter shall be as indicated on the Drawings. It shall conform to ASTM D 1784 or ASTM D 2729.

Drainage pipes shall be reinforced concrete pipes (RCP), diameter shall be as indicated on the Drawings.

4. Jointing Material

The joint material for uPVC pipes shall be PVC solvent cement as recommended by the approved pipe manufacturer.

5. Water Supply Pipes

Water supply pipes shall be polypropylene random-80 (PPR-80) pipes PN 20 conforming to DIN Standards DIN 1988/DIN 8078, German made. Jointing shall be fusion welded.

6. Cleanouts, Plugs and Tee

Cleanouts shall be of the same material as the pipe to be fitted. Cleanouts installed in connection with uPVC hubs and spigot pipes shall consist of a long sweep quarter bend of $\frac{1}{4}$ as shown on the drawings.

7. Pipe Sleeves

Pipe sleeves shall be installed and properly secured in place at all points where pipes pass through masonry or concrete. Pipe sleeves shall be uPVC pipe, Schedule 40.

8. Downspout

All downspout shall be unplasticized polyvinyl chloride (uPVC) pipe class DWV conforming to ASTM D2729 or ASTM D1784 for sanitary pipes, Series 1000.

9. Splash Block

Provide splash blocks at the outlet of downspout emptying at grade which shall be made of pre-cast concrete, with smooth finished counter sunk dishes sloped to drain away from the building. Dimensions as shown on the Drawings.

10. Roof Strainers

The Contractor shall provide fittings and install 100mm G.I. mesh wire strainers where shown or indicated on the drawings and/or where the Engineer directs. Each strainer shall fit the size of the corresponding downspout which is to be installed.

11. Shower, Floor and Urinal Drain

Shower and floor drains shall be made of stainless steel non-tilting grate, perforated or slotted. Urinal drains shall be cast iron dome type drain.

12. Pipe hangers, Inserts and Support

- a. Pipe hangers shall be wrought iron, malleable iron pipe hangers spaced not over 1.5meters apart for uPVC pipes and 3.0meters apart for iron pipes. Chain straps, perforated bars or wire hangers will not be permitted.

Hangers shall have short turnbuckles or other approved means of adjustment. Turnbuckles may be omitted on hangers where space does not permit their use. Trapeze hangers may be used in lieu of separate hangers for pipes running parallel to each other and close together.

- b. Inserts shall be of cast iron or cast steel and shall be of a type to receive a machine bolt head or nut after installation.

- c. Wrought iron clamps or collars shall be used to support vertical runs of pipes.

13. Unions

Union pipe 50mmØ and smaller shall be malleable iron. Union on water piping 63mmØ and larger shall be flanged pattern and shall be of galvanized (zinc coated) cast iron. Gaskets for flange unions shall be of best quality fiber plastic or leather.

14. Valves

Valves shall be cast bronze or brass body. Chrome plated finish for all fixture taps and faucets and natural finish for all others, like hose bibbs, gate valves and which are not tapped directly to a plumbing fixture. Concrete valve boxes shall be installed where required and will be of sufficient size for operating the valve.

15. Fixtures

- a. Water Closets

All water closets for toilets as shown on the drawings shall be TANK TYPE, white with complete fittings and mounting accessories.

- b. Lavatories

- b. 1. Lavatory (Wall Hung)

Shall be vitreous china, wall hung lavatory with rear overflow holes, fitting ledge suitable for single faucet holes on centers complete with faucet, standard fittings, trap and lavatory brackets and other accessories.

- b. 2. Lavatory (Countertop Lavatory)

Shall be vitreous china, oval or round shaped countertop lavatory with front overflow hole, complete with faucet, supply valve and fittings with P-trap. Fitting ledge suitable for single hole on center.

- c. Urinals

c. 1. Urinals for all comfort buildings shall be built-in urinal trough as shown on the drawings.

c. 2. Urinals shall be vitreous china, wall-hung washout urinal, flushing rim, integral trap, 19mm top and shall be provided with water saving flush system.

d. Service Sinks

Service sinks where indicated or shown on the Drawings shall be stainless steel, with single bowl and with complete U.S. or Japan imported fittings.

e. Slop Sinks

Slop sink shall be concrete in ceramic tile finish with concealed hanger and faucet, as specified in plan.

Hose bibb shall be of brass finish.

f. Soap Holder

Soap holder and toilet paper holder shall be vitreous china, wall mounted. All toilet/bath rooms will be provided with soap holder, toilet paper holder and chrome plated towel racks.

g. Faucet for lavatory

Faucet for lavatory shall be in chrome-finish.

h. Grab Bar

Grab bar shall be tubular stainless steel, 50mmØ or as specified in the drawings.

i. Bidet Spray Combination

Installed in every cubicle near on the water closet, colored white or its equivalent

16. Concrete, Reinforcing Steel, Pipe and Steel Plate

Materials for wash pits, catch basins and manholes shall conform to the requirements as follows:

- a. Concrete materials shall conform with the requirements in "Concrete Works" and shall be Class C concrete with a 28-day minimum compressive strength of 21 MPa (3,000 psi).
- b. Reinforcing steel shall be as shown on the drawings and shall conform with the requirements of reinforcing steel bars in "Concrete Works."
- c. Pipes shall be as shown on the drawings and shall comply with the relevant item of the particular pipe.
- d. Steel plates shall be as shown on the Drawings and shall comply with Section "Steel and Metal Works".

17. Non-reinforced Concrete Pipe

Non-reinforced concrete pipe shall be as shown on the Drawings and shall conform with the requirements of non-reinforced concrete pipes AIC latest edition. Concrete shall be with a 28-day minimum compressive strength of 20.7 MPa.

18. Valve for Drinking Fountain

Valve where drinking fountain will be connected shall be polished brass pipe and shall have red enameled handle.

EXECUTION

All installation works shall be in conformity with the National Plumbing Code of the Philippines (NPCP).

EXCAVATION, TRENCHES AND BACKFILLING

1. Trenches for all underground pipelines shall be excavated to the required depth. The bottom of trenches shall be tamped hard and graded to secure the required fill. Bell holes shall be excavated so that pipes will rest on solid ground for their entire length.

Rocks where encountered, shall be excavated to a depth of 150mm below the bottom of the pipe and before the pipe is laid, the space between the bottom of the pipe and the rock shall be filled with sand. Sewer and water pipes shall be laid in separate trenches.

2. After pipelines have been tested, inspected and approved by the Engineer and prior to backfilling, all forms shall be removed and the excavation shall be cleaned of all trash and debris.

Materials for backfilling shall consist of acceptable excavated soil, borrow of sand, gravel or other materials approved by the Engineer and shall be free from trash, lumber or other debris. Backfilling shall be placed in horizontal layers not exceeding 150 mm in thickness and properly moistened to approximate optimum requirements. Each layer shall be compacted by hand or machine tamper or by other suitable equipment to a density that will prevent excessive settlement or shrinkage.

Backfilling shall be brought to a suitable elevation above grade to provide for anticipated settlement and shrinkage thereof.

Water pipes shall have a sand cushion 150mm below and above the pipes.

INSTALLATION OF SOIL, WASTE DRAINS OR VENT PIPES**1. Horizontal Drainage Pipe and Vent Piping**

Horizontal waste pipes 75mmØ and smaller shall have a minimum grade of 6.5mm per 0.30m and for 100mmØ and larger, 3.2mm per 0.30m. All main vertical soil and waste stacks shall be extended full size above the roof line as vents, except where otherwise specifically shown.

Where practicable, two (2) or more vent pipes shall be connected together and extended as one pipe through the roof. Vent pipes in roof spaces shall be run as close as possible to the underside of roof with horizontal piping pitched to stacks using fittings as required without forming traps in pipes.

Vertical pipe vents may be connected to a vent line carrying other fixtures. The connection shall be at least 1.20m above the floor on which the fixtures are located to prevent the use of vent lines as waste. Horizontal waste lines receiving the discharge from two (2) or more fixtures shall be provided with vents, unless separate venting of fixtures is noted.

2. Fittings

All changes in pipe sizes on soil waste lines shall be made with reducing fittings or recessed reducers. All changes in direction shall be made by the appropriate use of forty five (45) degree wyes. Long sweep quarter bends or elbows may be used in soil and waste lines where the change in direction of flow is from the horizontal to the vertical and on the discharge from water closets.

Where it becomes necessary to use short radius fittings in any location, the approval of the Engineer shall be obtained before they are installed.

3. Joints

a. PVC Soil Pipe

All joints in uPVC soils, waste and vent pipe shall be accomplished by the use of PVC solvent cement.

b. All joints for uPVC shall be accomplished by applying the manufacturer's recommended solvent before connection to the pipe.

4. Cleanouts

Cleanouts at the bottom of each soil stack, waste stack and where else indicated shall be the same size as the pipe.

Cleanouts on floors shall be by uPVC plug adapter fit into the hub and fitted with uPVC screw plugged flush with the floor.

Cleanout shall be provided at every change in direction greater than 45 degrees.

5. Flashings

All pipes passing through the roof shall be provided with lead flashings. All flashings shall be built to 40 lbs. bituminous felts and shall extend up to the pipe and down-over to top of pipe at least 150mm and along the roof not less than 300mm and shall lap over flashing to make a weatherproof joint.

6. Traps

Each fixture and piece of equipment requiring connections to the drainage system, except fixtures with continuous waste shall be equipped with a trap. Traps shall be specified to be supplied with the fixtures. Each trap shall be placed as near to the fixtures as possible. Traps installed on threaded pipes shall be recessed drainage pattern.

7. Pipe Sleeves, Hangers and Supports

Pipe sleeves shall be installed and properly secured in place at all points where pipes pass through masonry or concrete except unframed floors on earth.

Pipes shall not be permitted to pass through footings or beams unless noted on the drawings.

Pipe sleeves in floors shall extend not less than 25mm and not more than 50mm above the finished floor. After installation of the pipe, the space around the pipe shall be packed with plastic material and made watertight. Flashing shields for sleeves passing through waterproofing membrane shall be thoroughly mopped into the membrane. The space between the pipe and sleeves shall be made watertight by inserting approved sealing and caulking materials.

INSTALLATION OF WATER PIPES, FITTINGS AND CONNECTIONS

1. Gate Valves and Outlets

Gate valves shall be installed close to the point of connection to the existing service line outside the building. The piping shall be extended to all fixture outlets and equipment from the gate valves. Outlets where indicated shall be capped or plugged and left ready for future connections.

2. Mains, Branches and Runouts

All runs of piping shall be installed as shown on the drawings. The piping shall be cut accurately to measurements, and installed at the building site by the Contractor and shall be worked into place without springing or forcing. Care shall be taken not to weaken the structural portions of the buildings.

All pipes above ground shall be run parallel with the lines of the building unless otherwise shown on the drawings. Branch pipes from service lines may be taken off on top of mains, bottom of mains or side of mains, using such cross over fittings as may be required by structural or installation conditions.

All service pipes, valves and fittings shall be kept at sufficient distance from the other work to permit finished covering not less than 6.5mm from such other work and not less than 13mm between finished covering on different services. No water piping shall be buried in floors unless specifically indicated on the drawings or approved. Changes in pipe sizes shall be made with reducing fittings.

The use of long screws and bushings is prohibited.

3. Joints

Joints and connections in the plumbing system shall be gas-tight and watertight for the pressures required by test.

After cutting and before threading all pipes shall be reamed and shall have burrs removed. All screwed joints shall be applied with an approved graphite compound or TEFLON tape to facilitate connections. Threads shall be full cut and not more than three threads on the pipe shall remain exposed.

Caulking of threaded joints or top to prevent leaks shall not be permitted.

Unions shall be provided where required for disconnection. Threaded swing bolts shall be used for branch connections to risers and mains.

4. Unions

Where required unions shall not be concealed in walls, ceilings or partitions.

5. Tests

The following tests shall be conducted by the Contractor at his expense under the supervision of the Engineer.

a. Tests for Drainage and Venting System

The entire drainage and venting system shall have necessary openings plugged to permit the entire system to be filled with water to the level of the highest vent stack above the roof. The system shall hold the water for 30 minutes with a drop not greater than 100mm.

b. Sterilization

The entire water supply piping system shall be sterilized with a solution containing not less than fifty (50) parts per million of available chlorine, either liquid chlorine or a solution of sodium hypochlorite. The sterilizing solution shall remain in the system for a period of not less than 8 hours during which time all valves and faucets shall be opened and closed several times. After sterilization, the solution shall be flushed from the system with clean water until the residual chloride content is not more than 0.2 parts per million.

c. Pressure Test for Water Lines

1. After the pipe have been installed, the joints completed and with joints exposed for examination, all newly installed pipe or any valve section, thereof, shall be subjected to hydrostatic pressure one and one half (1½) the designed working pressure of the system or as specified by the Engineer.
2. The duration of each pressure test shall be at least 20 minutes unless otherwise specified by the Engineer.
3. Each section of pipeline shall be slowly filled with water and the specified test pressure, measured at the point of lowest elevation, shall be applied by means of a pump connected to the pipe in a manner satisfactory to the Engineer. During the filling of the pipe and before applying the test pressure, all air shall be expelled from the pipeline. To accomplish this, tap shall be made if necessary, at the highest point of the pipe under test and after completion of the test, the taps shall be tightly plugged unless otherwise specified. During the test, all exposed pipes, fittings, valves, joint and couplings will be carefully examined. If found to be cracked or defective, they shall be removed and replaced by the Contractor with sound materials at his expense. The test shall then be repeated until satisfactory results are obtained.

d. Leakage Test for Water Lines

1. Leakage test shall be conducted after satisfactory completion of the pressure test and shall consist of an examination of all exposed joints for leakage as well as an overall leakage test of the completed pipeline.

2. The pressure to be maintained during the test shall be the designed working pressure of the system.
3. Leakage test shall be made only after a minimum of 24 hours after the pipe to be tested has been filled with water.
4. The duration of each leakage test shall be two hours unless otherwise specified by the Engineer.
5. Each section of pipeline shall be slowly filled with water and the specified test pressure, measured at the point of lowest elevation shall be applied by means of a positive displacement type pump and reservoir connected to the pipe in a manner satisfactory to the Engineer.
6. Before starting the leakage test, all air shall be expelled from the pipe. All exposed pipes, fittings, valves and joints shall be examined for leakage during the test.
7. Allowable leakage rate per 100 joints per inch of Pipe Diameter at Pressure Stipulated.

PRESSURE		LEAKAGE RATE	
psi	kg/cm ²	liters/hr.	liters/2 hrs.
50	3.50	1.45	2.90
75	5.30	1.75	3.50
100	7.00	2.05	4.10
125	8.80	2.30	4.60
150	10.50	2.50	5.00
200	14.00	2.90	5.80

e. **Defective Work**

1. If the inspection or test shows any defect, such defective work or material shall be replaced and the test shall be repeated until satisfactory to the Engineer.
2. All repairs to piping shall be made with new materials at the expense of the Contractor.
3. No caulking of screwed joints or holes will be accepted.

ASSEMBLY, INSTALLATION AND CONNECTION OF FIXTURES

Fixtures shall be supported and fastened in a satisfactory manner. Where secured to concrete or masonry work walls, fixtures and equipment shall be fastened with brass bolts or machine screws in lead-sleeve type anchorage units or with brass expansion bolts. Expansion bolts shall enter 7.5 cm into solid concrete or masonry works and shall be fitted with loose tubing or sleeves of proper length to bring expansion sleeves into the solid concrete masonry walls.

Where wood screws are used, screws shall go into solid pieces set between studs. Where through-bolts are used, bolts shall be provided with plates or washers at back set, so that they will be concealed by plaster. Bolts and nuts shall be hexagonal and exposed nuts, cap nuts, and screw heads shall be provided with chromium plated brass washers.

PROTECTION OF FIXTURES

Pipe openings shall be closed with caps or plugs during installation. Fixtures shall be tightly covered and protected against dirt, water and chemical injury. At the completion of all works, all fixtures shall be thoroughly cleaned and delivered in a condition satisfactory to the Engineer.

FIXTURES AND FASTENING

All fixtures shall be supported and fastened in a satisfactory manner as follows:

1. Where secured to concrete or concrete hollow block walls, they shall be fastened with one quarter inch brass bolts with twenty threads to the inch and of sufficient length to extend at least 7.5 cm into solid concrete or hollow block work, fitted with loose tubing or sleeve insert and shall be securely anchored and installed flush with the finished wall and shall be completely concealed when the fixtures are installed.
2. Where through-bolts are used, they shall be provided with plates or washers back set so that heads, nuts and washers will be concealed by plaster. Bolts and nuts shall be hexagonal. Exposed bolts, nuts, capnuts and screw heads shall be provided with chromium plated brass washers.

GUARANTEE

Upon completion and before final acceptance of the equipment installation, the Contractor shall furnish the Engineer a written guarantee stating that all equipment installed under this Section free from defects. The guarantee shall be for a period of one (1) year from the date of final acceptance of the work. Any part of the equipment that becomes defective during the term of the guarantee shall be replaced, renewed and/or made good by the Contractor, at his own expense and in a manner satisfactory to the Engineer.

Guarantees made by the approved manufacturers or suppliers beyond one year, shall be transferred to PPA without any expense on his part.

CLEANING UP

Upon completion of the work, all parts of the installation shall be thoroughly cleaned of grease, metal cuttings and sludge which may have accumulated during the testing operation.

PLUMBING, FIXTURES AND TOILET ACCESSORIES INSTALLATION

All installation works shall be as shown on the drawings and shall conform to the applicable standards set forth by the Philippine National Plumbing Code. All fixtures shall be fastened and/or supported in accordance with the given requirements.

ITEM 23 : PROJECT BILLBOARD

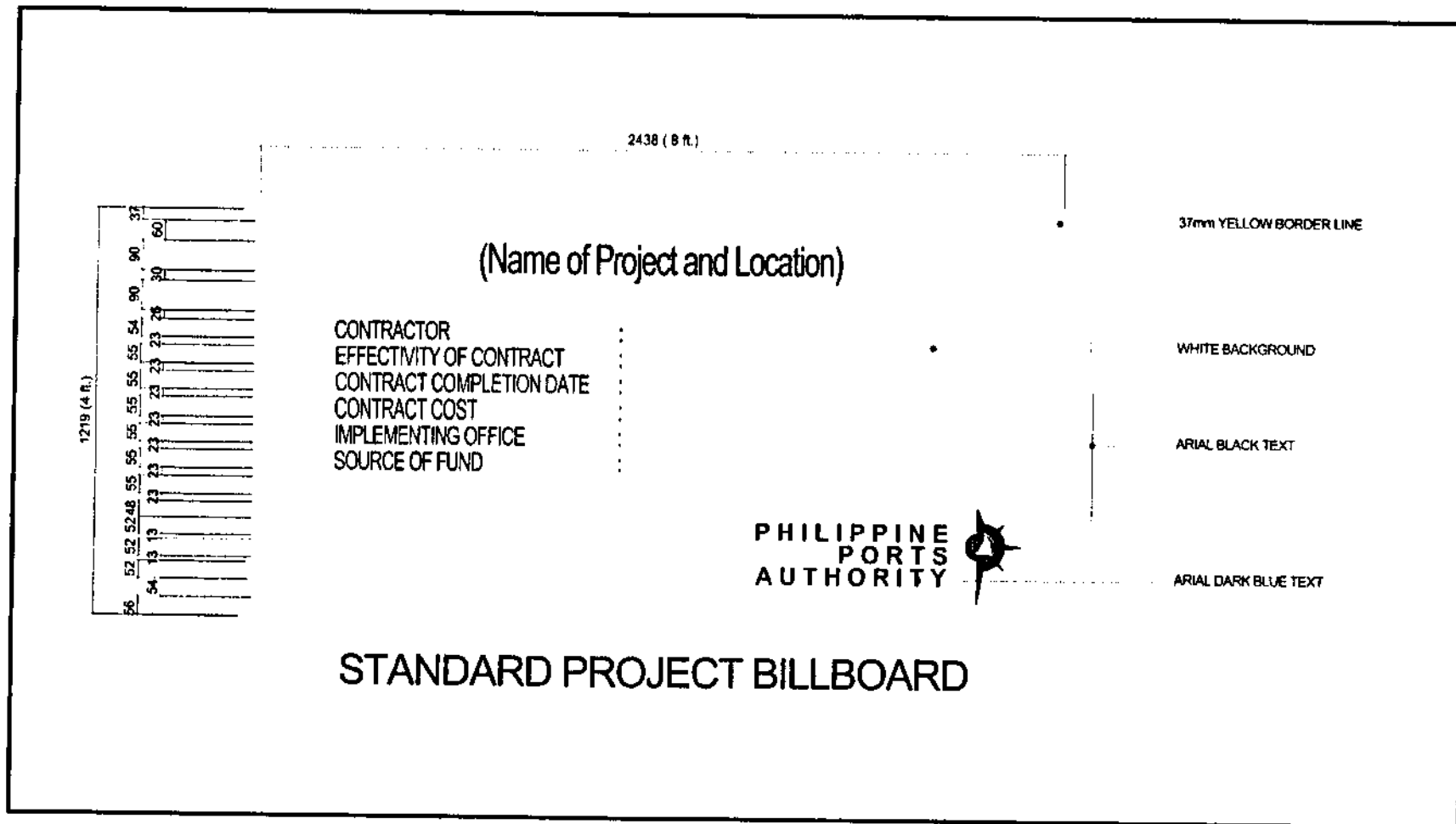
SPECIFICATION

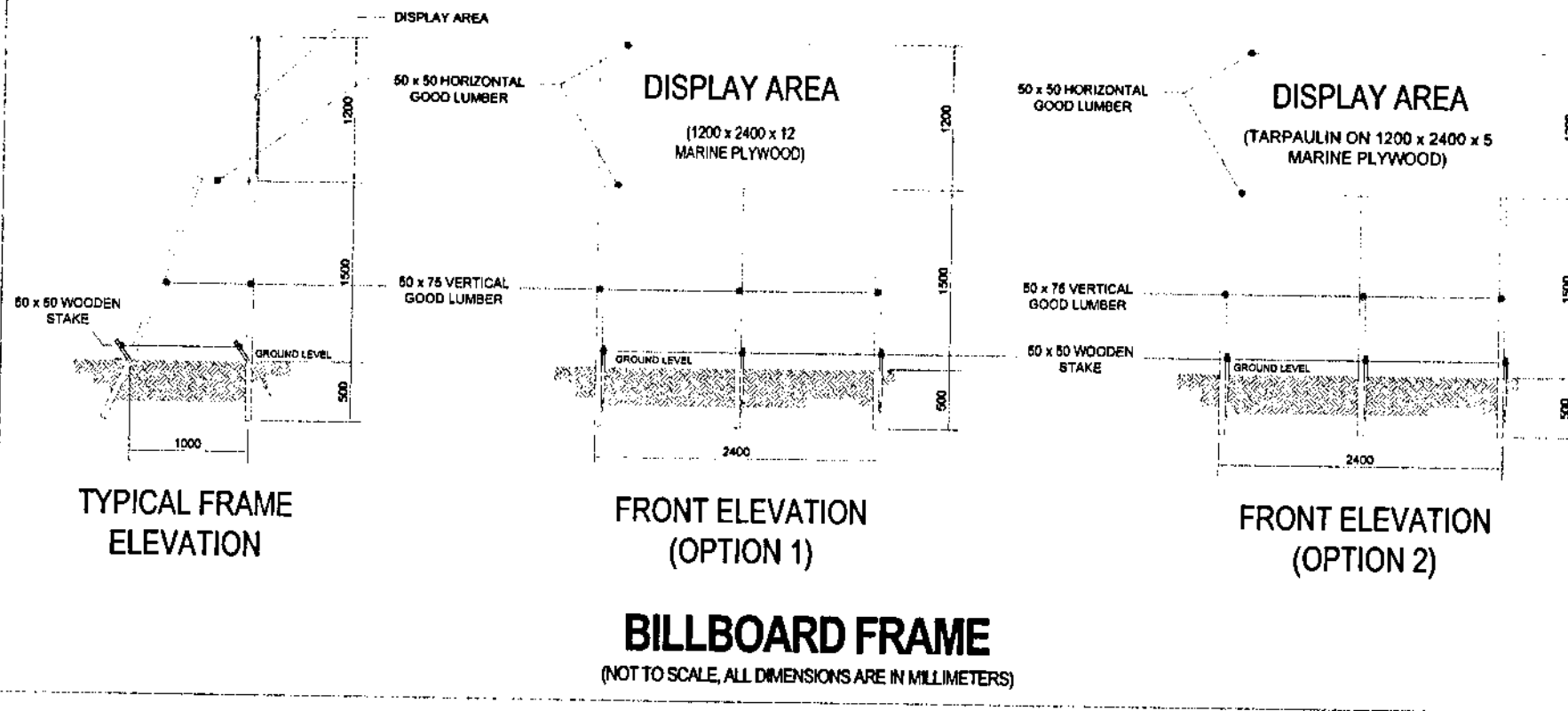
The Project Billboard shall be installed at location(s) designated by the Engineer.

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.





ITEM 24 : 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.

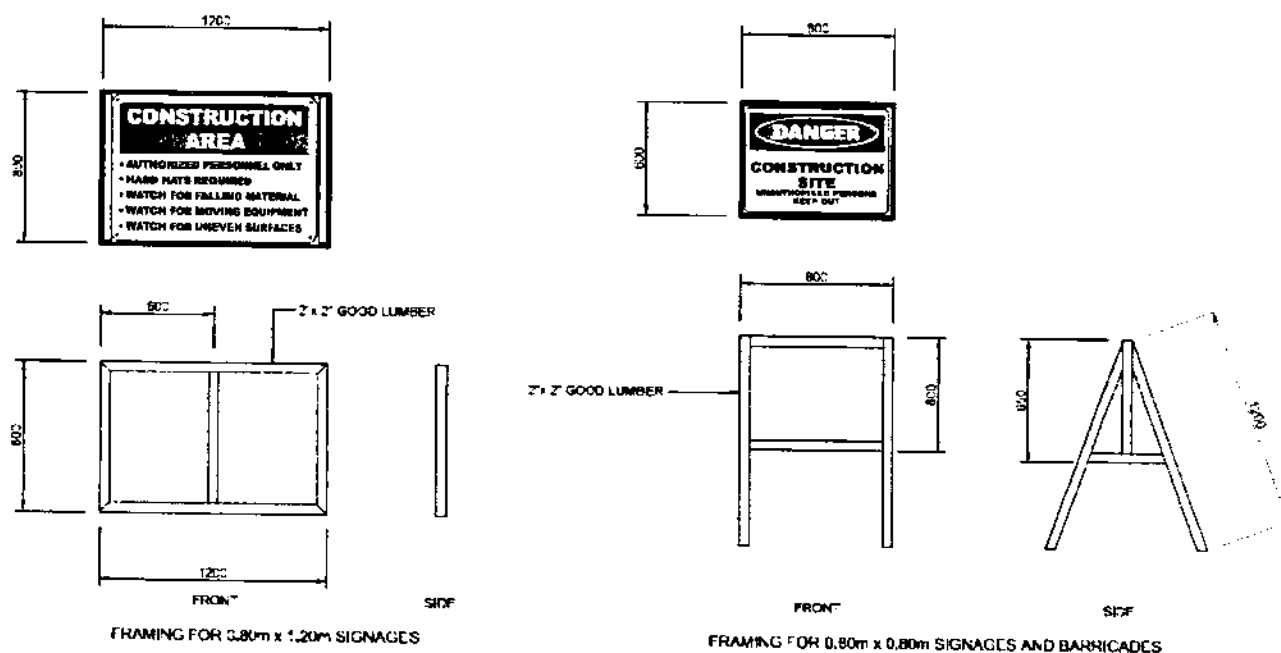
SPECIFICATION

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

PROJECT DRAWINGS

SECTION VII

PROJECT DRAWINGS (SEE ISSUED APPROVED PLANS)

LIST OF DRAWINGS:

01 of 09	Development Plan, Vicinity Map, General Notes, List of Drawings
02 of 09	General Plan of Rock Causeway with Stair landing, Section A-A, Section B-B
03 of 09	Stations 0+000, 0+020, 0+040, 0+060, 0+080, 0+100, 0+120, 0+137.7 & 0+160
04 of 09	Stations 0+174, 0+186, 0+186', 0+190.6, 0+206,
05 of 09	Piling Plan
06 of 09	Detail of Pavement & Pavement Joint Plan
07 of 09	Detail of Concrete Stair landing, Detail of Concrete Facing, Detail of Concrete Facing at Retaining Wall, Detail of RC Curb, Detail of Retaining Wall 1& 2 and Typical Reinforcement of Mooring Cleat
08 of 09	Detail of Anchor Block, Detail of 32ø Tie Rod Assembly, PVC Sheet Pile Detail Corner Piles, Plan Viewing the Connection Detail of Tie Rod with PVC Sheet Pile, Detail of Mandrel
09 of 09	Hydrographic/Topographic Survey

CONSTRUCTION OF PASSENGER SHED

01 of 07	Terminal Shed Perspective, Location Map and Site Development Plan
02 of 07	Terminal Shed Plan, Terminal Shed Roof Plan, Schedule of Finishes, Terminal Shed Front Elevation, Terminal Shed Left Side Elevation, Terminal Shed Right Side Elevation, Terminal Shed Rear Elevation, Terminal Shed Section X'-X', Terminal Shed Section Y'-Y', Terminal Shed Parapet & Port Name Detail
03 of 07	Terminal Shed Reflected Ceiling Plan, Terminal Shed Schedule of Doors & Windows, Terminal Shed Detail of Toilet, Concrete Bench Isometric View & Detail, PWD Ramp Blow Up Plan & Elevation
04 of 07	Foundation Plan, Roof Framing Plan, Wall Footing (WF) Detail, Typical Detail Section of Beam, Detail of Column/Column Footing, Parapet Wall Structural Detail, Detail of Reinforcement Bars, Beam Schedule, Slab Schedule

- 05 of 07 General Notes and Specifications, Material Specifications, Plumbing Legends, Sanitary Sewage & Storm Drain Layout, Roof Drain Layout, Waterline Layout, Septic Tank Details, Detail of Catch Basin
- 06 of 07 General Notes, Lighting/Power Layout, Legend/Mounting Height, Riser Diagram, Load Schedule, Single Line Diagram, Detail of Concrete Pedestal
- 07 of 07 Schedule of Loads, General Notes, Legend, Port Lighting Layout Plan, Detail of Single Arm Steel Tapered Lamp Post, Detail of Lamp Post Foundation

SECTION VIII

BILL OF QUANTITIES
and
ATTACHMENTS

BILL OF QUANTITIES
BRGY. U-OG PORT DEVELOPMENT PROJECT
 Brgy. U-og, Inabanga, Bohol

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	Rental of temporary site office and residence for the Engineer and staff	mo.	12		
1.03	Maintain temporary site office and residence for the Engineer and staff	mo.	12		
1.04	Provide Construction Safety and Health Program in the execution of the project	mo.	12		
TOTAL FOR BILL NO. 1					

BILL OF QUANTITIES
BRGY. U-OG PORT DEVELOPMENT PROJECT
Brgy. U-og, Inabanga, Bohol

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
BILL NO.	2 BACK-UP AREA AND CAUSEWAY				
2.01	Removal/ demolition of concrete structures along existing causeway	cu.m.	21		
2.02	Removal/ demolition and disposal of existing passenger shed including foundation	sq.m.	15		
2.03	Excavation of existing seabed along the containment of stairlandings	cu.m.	529		
2.04	Supply and deliver PVC sheet piles, (Section Width = 458mm)	l.m.	3,676		
2.05	Supply and deliver PVC corner piles				
	a. PVC corner pile (154 degrees), 8 meters length	no.	1		
	b. PVC corner pile (90 degrees), 6 meters length	no.	3		
	c. PVC corner pile (90 degrees), 8 meters length	no.	1		
2.06	Handle, pitch and drive PVC sheet piles and corner piles	l.m.	3,262		
2.07	Epoxy bonding of PVC piles	l.m.	448		
2.08	Supply and place 10-100 kg . core rocks	cu.m.	161		
2.09	Supply and install geotextile fabric	sq.m.	840		
2.10	Supply and place sand and gravel fill	cu.m.	5,704		
2.11	Supply, spread and compact selected fill	cu.m.	1,996		

BILL OF QUANTITIES
BRGY. U-OG PORT DEVELOPMENT PROJECT
 Brgy. U-og, Inabanga, Bohol

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
2.12	Supply, place and compact gravel bedding for retaining wall, stairlanding, RC tie-beam, mooring block, handhole, lamp post and pedestal post foundations	cu.m.	22		
2.13	Supply and place 3,500 psi. concrete for retaining walls, stairlanding, RC tie-beam, mooring cleat block, concrete facing, cont. anchor block and RC curb	cu.m.	675		
2.14	Supply and install steel reinforcement for retaining walls, stairlanding, RC tie-beam, mooring cleat block, concrete facing, cont. anchor block and RC curb	kg.	38,805		
2.15	Supply and install tie-rod including accessories a. Dia. 32mm x 10.00m tie-rod b. Dia. 32mm x 9.00m tie-rod c. Dia. 32mm x 1.50m tie-rod	set set set	13 9 1		
2.16	Supply, spread and compact aggregate base course (CBR > 80)	cu.m.	369		
2.17	Construct portland cement concrete pavement (230mm thk.) including asphalt sealer and dowel bars for construction joint	sq.m.	1,847		
2.18	Supply and install mooring cleat including accessories	no.	21		
TOTAL FOR BILL NO. 2					

BILL OF QUANTITIES
BRGY. U-OG PORT DEVELOPMENT PROJECT
 Brgy. U-og, Inabanga, Bohol

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
BILL NO. 3	PORT LIGHTING SYSTEM				
3.01	Excavation for lamp post foundation, electrical handhole and concrete pedestal post	cu.m.	5		
3.02	Supply and install wires and cables	lot	1		
3.03	Supply, deliver and install conduit pipes including fittings	lot	1		
3.04	Construct lamp post foundation	no.	5		
3.05	Supply, deliver and install 6 meters steel tapered lamp post in hot dip galvanized fixtures and accessories	set	5		
3.06	Construct concrete electrical handhole including steel reinforcement	no.	1		
3.07	Supply, deliver and install lighting device and accessories	set	5		
3.08	Supply, deliver and install protective device, Main Disconnect Panel	assy.	1		
3.09	Construct concrete pedestal post including steel reinforcement	lot	1		
TOTAL FOR BILL NO. 3					

BILL OF QUANTITIES
BRGY. U-OG PORT DEVELOPMENT PROJECT
 Brgy. U-og, Inabanga, Bohol

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
BILL NO.	4 CONSTRUCTION OF PASSENGER SHED				
4.01	Excavation of fill materials for column footing, footing tie-beam, septic vault and catch basin and backfilling thereafter	cu.m.	37		
4.02	Supply and apply soil treatment	sq.m.	253		
4.03	Supply, place and compact gravel bedding	cu.m.	26		
4.04	Supply and place 4,000 psi. concrete for column footing, tie-beam, wall footing, beam, slab-on-grade, roof slab, parapet, PWD ramp, countertop and concrete bench	cu.m.	93		
4.05	Supply and install steel reinforcement for column footing, tie-beam, wall footing, beam, slab-on-grade, roof slab, parapet, PWD ramp, countertop and concrete bench	kg.	11,029		
4.06	Construct 150mm thick CHB wall and partitions	sq.m.	117		
4.07	Supply and install marine plywood	sq.m.	47		
4.08	Supply and place 13mm thick plain cement plaster finish	sq.m.	390		
4.09	Supply and apply two (2) coats of acrylic solvent base paint	sq.m.	562		
4.10	Supply and apply two (2) coats of enamel paint	sq.m.	47		
4.11	Supply and apply Membrane type waterproofing	sq.m.	271		
4.12	Supply and install 0.60m x 0.60m non-skid ceramic floor tiles	sq.m.	253		

BILL OF QUANTITIES
BRGY. U-OG PORT DEVELOPMENT PROJECT
 Brgy. U-og, Inabanga, Bohol

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
4.13	Supply and install 0.30m x 0.60m homogenous ceramic wall tiles	sq.m.	75		
4.14	Supply and install Granite Countertop	sq.m.	7		
4.15	Supply and install 50mm diameter tubular stainless steel buff finished handrail	lot	1		
4.16	Supply, fabricate and install doors and windows including accessories	lot	1		
4.17	Supply and install toilet fixtures and accessories	lot	1		
4.18	Supply and install pipes for water line including accessories	lot	1		
4.19	Supply and install pipes for sewer line including accessories	lot	1		
4.20	Supply and install pipes for drainage line including accessories	lot	1		
4.21	Supply, deliver and install wires and cables of various sizes	lot	1		
4.22	Construct septic vault including steel reinforcement	lot	1		
4.23	Construct catch basin and manhole cover for drainage system including steel reinforcement	lot	1		
TOTAL FOR BILL NO. 4					

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 Rental of temporary site office and residence for the Engineer and staff

The quantity to be paid for shall be the actual rental 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 at least 48.00 m²

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

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

BACK-UP AREA AND CAUSEWAY

Item 2.01 Removal/demolition of concrete structures along existing causeway

The quantity to be paid for shall be the actual volume in cubic meter of concrete structures along existing causeway to be removed and demolished 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 Removal/demolition and disposal of existing passenger shed including foundation

The quantity to be paid for shall be the actual area in square meter of existing passenger including foundation to be removed, demolished and 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 Excavation of existing seabed along the containment of stairlandings

The quantity to be paid for shall be the actual volume in cubic meter of existing seabed along the containment of stairlandings to be excavated 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 Supply and deliver PVC sheet piles, (Section Width = 458mm)

The quantity to be paid for shall be the actual length in linear meter of PVC sheet piles to be supplied and delivered 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 Supply and deliver PVC corner piles

- a. PVC corner pile (154 degrees), 9 meters length
- b. PVC corner pile (90 degrees), 7 meters length
- c. PVC corner pile (90 degrees), 9 meters length

The quantity to be paid for shall be the actual number of PVC corner piles to be supplied and delivered 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 Handle, pitch and drive PVC sheet piles and corner piles

The quantity to be paid for shall be the actual length in linear meter of PVC sheet piles and corner piles to be handled, pitched and driven 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 Epoxy bonding of PVC Piles

The quantity to be paid for shall be the actual length in linear meter of epoxy bonding agent to be supplied and applied 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 2.08 Supply and place 10-100 kg. core rocks

The quantity to be paid for shall be the actual volume in cubic meter of 10-100 kg. core rocks to be 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 2.09 Supply and install geotextile fabric

The quantity to be paid for shall be the actual area in square meter of geotextile filter fabric 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 2.10 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 to be 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 2.11 Supply, spread and compact selected fill materials

The quantity to be paid for shall be the actual volume in cubic meter of selected fill materials 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 2.12 Supply, place and compact gravel bedding for retaining wall, stairlanding, RC tie-beam, mooring block, handhole, lamp post and pedestal post foundation

The quantity to be paid for shall be the actual volume in cubic meter of gravel bedding for retaining wall, stairlanding, RC tie-beam, mooring block, handhole, lamp post and pedestal post foundation to be supplied, set-in-place 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 2.13 Supply and place 3,500 psi concrete for retaining wall, stairlanding, RC tie-beam, mooring cleat block, concrete facing, cont. anchor block and RC curb

The quantity to be paid for shall be the actual volume in cubic meter of 3,500 psi concrete for retaining wall, stairlanding, RC tie-beam, mooring cleat block, concrete facing, cont. anchor block and RC curb to be 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 2.14 Supply and install steel reinforcements for retaining wall, stairlanding, RC tie-beam, mooring cleat block, concrete facing, cont. anchor block and RC curb

The quantity to be paid for shall be the actual weight in kilograms of steel reinforcements for retaining wall, stairlanding, RC tie-beam, mooring cleat block, concrete facing, cont. anchor block and RC curb 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 2.15 Supply and install tie-rod including accessories

- a. Diameter 32 mm x 10.00m tie-rod
- b. Diameter 32 mm x 9.00m tie-rod
- c. Diameter 32 mm x 1.50m tie-rod

The quantity to be paid for shall be the actual number in set of tie-rod 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 2.16 Supply, spread and compact aggregate base course (CBR > 80)

The quantity to be paid for shall be the actual volume in cubic meter of aggregate base course (CBR > 80) 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 2.17 Construct portland cement concrete pavement, (230mm thk.) including asphalt sealer and dowel bars for construction joint

The quantity to be paid for shall be the actual area in square meter of portland cement concrete pavement (230mm thk.) including asphalt sealer and dowel bars for construction joint, 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 2.18 Supply and install mooring cleat including accessories

The quantity to be paid for shall be the actual number of mooring cleat 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.

BILL NO. 3

PORT LIGHTING SYSTEM

Item 3.01 Excavation for lamp post foundation, electrical handhole and concrete pedestal post

The quantity to be paid for shall be the actual volume in cubic meter of lamp post foundation, electrical handhole and concrete pedestal post to be excavated 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 Supply and install wires and cables

The quantity to be paid for shall be the actual quantity in lot of wires and cables 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 3.03 Supply, deliver and install conduit pipes including fittings

The quantity to be paid for shall be the actual quantity in lot of conduit pipes including fittings to be supplied, delivered 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 3.04 Construct lamp post foundation

The quantity to be paid for shall be the actual number of lamp post foundation to be constructed in accordance with the plans and specifications and disposal of debris at the designated area 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, deliver and install 6 meters steel tapered lamp post in hot dip galvanized fixtures and accessories

The quantity to be paid for shall be the actual quantity in set of 6 meters steel tapered lamp post in hot dip galvanized fixtures and accessories to be supplied, delivered 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 Construct concrete electrical handhole including steel reinforcement

The quantity to be paid for shall be the actual number of concrete electrical handhole including steel 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 3.07 Supply, deliver and install lighting device and accessories

The quantity to be paid for shall be the actual number in set of lighting device and accessories to be supplied, delivered 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, deliver and install protective device, Main Disconnect Panel

The quantity to be paid for shall be the actual number in unit of protective device, Main Disconnect Panel to be supplied, delivered 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 3.09 Construct concrete pedestal post including steel reinforcement

The quantity to be paid for shall be the actual quantity in lot of concrete pedestal post including steel reinforcement to be constructed in accordance with the plans and specifications and disposal of debris at the designated area 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. 4

CONSTRUCTION OF PASSENGER SHED

Item 4.01 Excavation of fill materials for column footing, footing tie-beam, septic vault and catch basin and backfilling thereafter

The quantity to be paid for shall be the actual volume in cubic meter of fill materials for column footing, footing tie beam, septic vault and catch basin to be excavated and 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 4.02 Supply and apply soil treatment

The quantity to be paid for shall be the actual area in square meter of soil treatment to be supplied and applied 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 4.03 Supply, place and compact gravel bedding

The quantity to be paid for shall be the actual volume in cubic meter of gravel bedding to be supplied, set-in-place 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 4.04 Supply and place 4,000 psi concrete for column footing, tie beam, wall footing, beam, slab-on-grade, roof slab, parapet, PWD ramp, countertop and concrete bench

The quantity to be paid for shall be the actual volume in cubic meter of 4,000 psi concrete for column footing, tie beam, wall footing, beam, slab-on-grade, roof slab, parapet, PWD ramp, countertop and concrete bench to be 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 4.05 Supply and install steel reinforcement for column footing, tie beam, wall footing, beam, slab-on-grade, roof slab, parapet, PWD ramp, countertop and concrete bench

The quantity to be paid for shall be the actual weight in kilogram of steel reinforcement for column footing, tie beam, wall footing, beam, slab-on-grade, roof slab, parapet, PWD ramp, countertop and concrete bench 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 4.06 Construct 150mm thick CHB wall and partitions

The quantity to be paid for shall be the actual area in square meter of 150mm thick CHB wall and partitions 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 4.07 Supply and install marine plywood

The quantity to be paid for shall be the actual area in square meter of marine plywood 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 4.08 Supply and place 13mm thick plain cement plaster finish

The quantity to be paid for shall be the actual area in square meter of 13mm thick plain cement plaster finish to be 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 4.09 Supply and apply two (2) coats acrylic solvent base paint

The quantity to be paid for shall be the actual area in square meter of acrylic solvent base paint (2-coats) to be supplied and applied 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 4.10 Supply and apply two (2) coats enamel paint

The quantity to be paid for shall be the actual area in square meter of enamel paint (2-coats) to be supplied and applied 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 4.11 Supply and apply membrane type water proofing

The quantity to be paid for shall be the actual area in square meter of membrane type water proofing to be supplied and applied 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 4.12 Supply and install 0.60m x 0.60m non-skid ceramic floor tiles

The quantity to be paid for shall be the actual area in square meter of 0.60m x 0.60m non-skid ceramic floor tiles 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 4.13 Supply and install 0.30m x 0.60m homogeneous ceramic wall tiles

The quantity to be paid for shall be the actual area in square meter of 0.30m x 0.60m homogeneous ceramic wall tiles 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 4.14 Supply and install granite countertop

The quantity to be paid for shall be the actual area in square meter of granite countertop 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 4.15 Supply and install 50 mm diameter tubular stainless steel buff finished handrail

The quantity to be paid for shall be the actual quantity in lot of 50 mm diameter tubular stainless steel buff finished handrail 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 4.16 Supply, fabricate and install doors and windows including accessories

The quantity to be paid for shall be the actual quantity in lot of doors and windows including accessories to be 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 4.17 Supply and install toilet fixtures and accessories

The quantity to be paid for shall be the actual quantity in lot of toilet fixtures and 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 4.18 Supply and install pipes for water line including accessories

The quantity to be paid for shall be the actual quantity in lot of pipes for water line 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 4.19 Supply and install pipe sewer line including accessories

The quantity to be paid for shall be the actual quantity in lot of sewer line 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 4.20 Supply and install pipes for drainage line including accessories

The quantity to be paid for shall be the actual quantity in lot of pipes for drainage line 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 4.21 Supply, deliver and install electric wires and cables of various sizes

The quantity to be paid for shall be the actual quantity in lot of electric wires and cables of various sizes to be supplied, delivered 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 4.22 Construct septic vault including steel reinforcements

The quantity to be paid for shall be the actual quantity in lot of septic vault including steel reinforcements 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 4.23 Construct catch basin and manhole for drainage system including steel reinforcements

The quantity to be paid for shall be the actual quantity in lot of catch basin and manhole for drainage system including steel reinforcements 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.

FACILITIES TO BE PROVIDED FOR THE ENGINEER & HIS STAFF

TEMPORARY FACILITIES OF THE CONTRACTOR

The Contractor shall provide and maintain such temporary offices, stores, workshops, latrines, housing and messing accommodations as are necessary. The location, dimension and layout of such buildings and places shall be subject to the approval in writing of the Engineer. By the end of the contract, the Contractor shall remove all buildings and the area shall be cleared and graded as required by the Engineer.

SITE OFFICE AND RESIDENCE FOR THE ENGINEER & STAFF

The Contractor shall provide (**Rental**) and maintain a temporary site office and residence with an area of at least 48 square meters for use of the Engineer and staff, including all the necessary electricity, water, communication services and consumables.

MINIMUM EQUIPMENT REQUIREMENTS

1	unit	Crawler Crane (30T, minimum), owned
1	unit	Vibro Hammer (Hydraulic Pile Driver, 30 Ton), owned
1	unit	Clamshell, owned
1	unit	Concrete cutter, owned
1	unit	Concrete bucket, owned
1	unit	Concrete Mixer (1 bagger, minimum), owned
1	unit	Concrete Vibrator (3.5 hp, minimum), owned
1	unit	Bar Cutter (electric, 25mm dia min.), owned
1	unit	Bar Bender (electric, 25mm dia min.), owned
1	unit	Dump Truck (8 cu.m., minimum), owned
1	unit	Water Truck with pump (1,000 gal., minimum), owned
1	unit	Jackhammer, owned
1	unit	Air Compressor (250 cfm, minimum), owned
1	unit	Plate Compactor (5 hp, minimum), owned
1	unit	Welding Machine (400 amp., minimum), owned
1	unit	Oxy/Acetylene cutting outfit, owned
1	unit	Road Roller (12.05T, vibratory, minimum), owned/ leased
1	unit	Road Grader (125 hp, minimum), owned/ leased
1	unit	Payloader (80 hp, minimum), owned/ leased
1	unit	Backhoe (0.40 cu.m., 94.30hp, minimum), owned
1	unit	Concrete Screeder, owned
1	unit	Transit Mixer (5-6 cu.m. cap., minimum), owned
1	unit	Cargo Truck (5T, minimum) , owned

CONSTRUCTION SAFETY AND HEALTH REQUIREMENTS

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).

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:

LABOR

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

EQUIPMENT / MATERIALS

Personnel Protective Equipment

- | | | |
|----|-------|--------------|
| 37 | pcs. | Hard Hats |
| 37 | pcs. | Gloves |
| 7 | pcs. | Goggles |
| 2 | pcs. | Aprons |
| 1 | pcs. | Safety Belts |
| 37 | pairs | Safety Shoes |
| 1 | pcs. | Life Lines |

Safety Devices

- | | | |
|---|-------|-------------------|
| 1 | lot | Barricades |
| 1 | lot | Warning signs |
| 2 | units | Fire extinguisher |

Medical and First Aid System - For twelve (12) mos.

NOTE:

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

SECTION IX

BIDDING FORMS

Bid Form

Date: _____

ITB No: _____

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

We, the undersigned, declare that:

- (a) We have examined and have no reservation to the Bidding Documents, including Addenda, for the Contract **Brgy. U-og Port Development Project, Port of Brgy. U-og, Inabanga, Bohol**;
- (b) We offer to execute the Works for this Contract in accordance with the Bid and Bid Data Sheet, General and Special Conditions of Contract accompanying this Bid;

The total price of our Bid, excluding any discounts offered below is:

BILL NO	DESCRIPTION	TOTAL AMOUNT
1	General Expenses	₱
2	Back-up Area and Causeway	₱
3	Port Lighting System	₱
4	Construction of Passenger Shed	₱
	TOTAL AMOUNT OF BID (including VAT)	₱

The discounts offered and the methodology for their application are: insert information;

- (c) Our Bid shall be valid for a period of 120 days from the date fixed for the Bid submission deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (d) If our Bid is accepted, we commit to obtain a Performance Security in the amount of insert percentage amount percent of the Contract Price for the due performance of the Contract;
- (e) Our firm, including any subcontractors or suppliers for any part of the Contract, have nationalities from the following eligible countries: insert information;
- (f) 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;

- (g) Our firm, its affiliates or subsidiaries, including any subcontractors or suppliers for any part of the Contract, has not been declared ineligible by the Funding Source;
- (h) 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
- (i) We understand that you are not bound to accept the Lowest Calculated Bid or any other Bid that you may receive.
- (j) 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 **Brgy. U-og Port Development Project, Port of Brgy. U-og, Inabanga, Bohol** of the **Philippine Ports Authority**.
- (k) 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: _____

In the capacity of: _____

Signed: _____

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

Date: _____

Bidding Form
(On-going)

3

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 Operations of Work 1]	Unit of Measure	Quantity					Unit of Measure	Quantity
			Title of the Project	Title of the Project	Title of the Project	Title of the Project		
1. Off-Shore Pile Driving	l.m.	1,631						
2. Fill Materials	cu.m.	3,850						
3. Reinforced Concrete Works	cu.m.	338						
4. Paving Works (PCCP) including base course	sq. m.	924						
5. Building Construction (1-storey)	sq. m.	127						

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

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 INFORMATION (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

REPUBLIC OF THE PHILIPPINES)
CITY OF _____)SS

AFFIDAVIT

I (Name), of legal age, (Civil Status), (Nationality), and residing at (Address), 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 (Name of Bidder) with office address at _____;
2. As the owner and sole proprietor or authorized representative of (Name of Bidder), 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 (Name of Project) of the Philippine Ports Authority, (as shown in the attached duly notarized "Special Power of Attorney" for the authorized representative);
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;
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 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 following responsibilities as a Bidder:
 - a) Carefully examine all of the Bidding Document;
 - b) Acknowledge all conditions, local or otherwise, affecting the implementation of the contract;
 - c) Made an estimate of the facilities available and needed for the contract to be bid, if any; and
 - d) Inquire or secure Supplemental / Bid Bulletin(s) issued for the *Brgy. U-og Port Development Project, Port of Brgy. U-og, Inabanga, Bohol*.

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.

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

Bidder's Representative / Authorized Signatory

SUBSCRIBED AND SWORN to before me this ____ day of [month] [year] at [place of execution], Philippines. Affiant/s is/are personally known to me and was/were identified by me through competent evidence of identity as defined in the 2004 Rules on Notarial Practice (A.M. No. 02-8-13-SC). Affiant/s exhibited to me his/her [insert type of government identification card used], with his/her photograph and signature appearing thereon, with no. _____ and his/her Community Tax Certificate No. _____ issued on ____ at _____.

Witness my hand and seal this ____ day of [month] [year].

NAME OF NOTARY PUBLIC

Serial No. of Commission _____

Notary Public for _____ until _____

Roll of Attorneys No. _____

PTR No. _____ [date issued], [place issued]

IBP No. _____ [date issued], [place issued]

Doc. No. _____

Page No. _____

Book No. _____

Series of _____

OMNIBUS SWORN STATEMENT FOR PARTNERSHIP OR COOPERATIVE

REPUBLIC OF THE PHILIPPINES)
CITY OF _____)SS

AFFIDAVIT

I (Name), of legal age, (Civil Status), (Nationality), and residing at (Address), 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 (Name of Bidder) with office address at (Address);
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 (Name of Project) of the Philippine Ports Authority, accompanied by the duly notarized Special Power of Attorney, Board/Partnership Resolution or Secretary's Certificate (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;
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 PPA General Manager 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 PPA General Manager, 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 following responsibilities as a Bidder:
 - a) Carefully examine all of the Bidding Document;
 - b) Acknowledge all conditions, local or otherwise, affecting the implementation of the contract;
 - c) Made an estimate of the facilities available and needed for the contract to be bid, if any; and
 - d) Inquire or secure Supplemental / Bid Bulletin(s) issued for the *Brgy. U-og Port Development Project, Port of Brgy. U-og, Inabanga, Bohol*.

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.

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

Bidder's Representative / Authorized Signatory

SUBSCRIBED AND SWORN to before me this ____ day of [month] [year] at [place of execution], Philippines. Affiant/s is/are personally known to me and was/were identified by me through competent evidence of identity as defined in the 2004 Rules on Notarial Practice (A.M. No. 02-8-13-SC). Affiant/s exhibited to me his/her [insert type of government identification card used], with his/her photograph and signature appearing thereon, with no. _____ and his/her Community Tax Certificate No. _____ issued on ____ at _____.

Witness my hand and seal this ____ day of [month] [year].

NAME OF NOTARY PUBLIC

Serial No. of Commission _____

Notary Public for _____ until _____

Roll of Attorneys No. _____

PTR No. _____ [date issued], [place issued]

IBP No. _____ [date issued], [place issued]

Doc. No. _____

Page No. _____

Book No. _____

Series of _____

OMNIBUS SWORN STATEMENT FOR CORPORATION OR JOINT VENTURE

REPUBLIC OF THE PHILIPPINES)
CITY OF _____)SS

AFFIDAVIT

I (Name), of legal age, (Civil Status), (Nationality), and residing at (Address), 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 (Name of Bidder) 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 (Name of Project) of the Philippine Ports Authority, accompanied by the duly notarized Special Power of Attorney, Board Resolution or Secretary's Certificate;
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;
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 PPA General Manager 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 PPA General Manager, 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 or 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 following responsibilities as a Bidder:
 - a) Carefully examine all of the Bidding Document;
 - b) Acknowledge all conditions, local or otherwise, affecting the implementation of the contract;
 - c) Made an estimate of the facilities available and needed for the contract to be bid, if any; and
 - d) Inquire or secure Supplemental / Bid Bulletin(s) issued for the *Brgy. U-og Port Development Project, Port of Brgy. U-og, Inabanga, Bohol.*

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.

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

Bidder's Representative / Authorized Signatory

SUBSCRIBED AND SWORN to before me this ____ day of [month] [year] at [place of execution], Philippines. Affiant/s is/are personally known to me and was/were identified by me through competent evidence of identity as defined in the 2004 Rules on Notarial Practice (A.M. No. 02-8-13-SC). Affiant/s exhibited to me his/her [insert type of government identification card used], with his/her photograph and signature appearing thereon, with no. _____ and his/her Community Tax Certificate No. _____ issued on ____ at _____.

Witness my hand and seal this ____ day of [month] [year].

NAME OF NOTARY PUBLIC

Serial No. of Commission _____

Notary Public for _____ until _____

Roll of Attorneys No. _____

PTR No. _____ [date issued], [place issued]

IBP No. _____ [date issued], [place issued]

Doc. No. _____

Page No. _____

Book No. _____

Series of _____

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

BID-SECURING DECLARATION

Invitation to Bid No. _____

To : Philippine Ports Authority
Bonifacio Drive, South Harbor,
Port Area, manila

I, the undersigned, declare that:

1. I 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 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 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 9184; without prejudice to other legal action the government may undertake:
3. I 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 declared ineligible or post-disqualified upon receipt of your notice to such effect, and (i) I failed to timely file a request for reconsideration or (ii) I filed a waiver to avail of said right;
 - (c) I am declared as the bidder with the Lowest Calculated Responsive Bid, and I have furnished the performance security and signed the Contract.

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

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

SUBSCRIBED AND SWORN to before me this ____ day of [month] [year] at [place of execution], Philippines. Affiant/s is/are personally known to me and was/were identified by me through competent evidence of identity as defined in the 2004 Rules on Notarial Practice (A.M. No. 02-8-13-SC). Affiant/s exhibited to me his/her [insert type of government identification card used], with his/her photograph and signature appearing thereon, with no. _____.

Witness my hand and seal this ____ day of [month] [year].

NAME OF NOTARY PUBLIC

Serial No. of Commission _____
Notary Public for _____ until _____
Roll of Attorneys No. _____
PTR No. ___, [date issued], [place issued]
IBP No. ___, [date issued], [place issued]
Doc. No. ____
Page No. ____
Book No. ____
Series of ____.

CONSTRUCTION METHODOLOGY

Name of Project : _____
Proposed Project Description : _____
Location : _____

MINIMUM SCOPE OF CONSTRUCTION METHODOLOGY

A. BACK-UP AREA AND CAUSEWAY

1. Removal/demolition of concrete structures along existing causeway (21 cu.m.)
2. Removal/demolition and disposal of existing passenger shed including foundation (15 sq.m.)
3. Excavation of existing seabed along the containment of stairlandings (529 cu.m.)
4. Supply, deliver & drive PVC sheet piles and corner piles, 458 mm width (3,262 l.m.)
5. Supply and place 10-100 kg. core rocks (161 cu.m.)
6. Supply and install geotextile fabric (840 sq.m.)
7. Supply and place sand and gravel fill (5,704 cu.m.)
8. Supply, spread and compact selected fill (1,996 cu.m.)
9. Supply, place and compact gravel bedding for retaining wall, stairlanding, RC tie-beam and mooring block (22 cu.m.)
10. Supply and place 3,500 psi concrete for retaining wall, stairlanding, RC tie-beam, mooring block, concrete facing and RC curb (675 cu.m.)
11. Supply and install steel reinforcement for retaining wall, stairlanding, RC tie-beam, mooring block, concrete facing and RC curb (38,805 kg.)
12. Supply and install diameter 32 mm tie-rod including accessories (23 set)
13. Supply, spread and compact gravel base course (369 cu.m.)
14. Construct Portland cement concrete pavement (230 mm thk.) including asphalt sealer and dowel bars for construction joint (1, 847 sq.m.)
15. Supply and install mooring cleat including accessories (21 no.)

B. PORT LIGHTING SYSTEM

1. Supply, deliver and install 6 meters steel tapered lamp post in hot dip galvanized including lighting devices and accessories (5 no.)

C. CONSTRUCTION OF PASSENGER SHED

1. Construction of 1-storey Passenger Shed Building (50 pax, 250 sq.m.)

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)											
	M O N T H L Y											
	1	2	3	4	5	6	7	8	9	10	11	12
Project Manager												
Project Engineer												
Materials Engineer												
Construction Safety and Health Officer												
Foreman												
Specify other applicable positions, ie.:												
- Carpenter												
- Steel man												
- Mason												
- Electrician												
- Rigger												
- Others												

Signature
(Authorized Signing Official)

EQUIPMENT UTILIZATION SCHEDULE

Name of Project : _____

Proposed Project Description : _____

Location : _____

[illegible]

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)
TOTAL		

NOTES

- The cash flow by quarter and payment schedule should be consistent with the Bar Chart and S-curb.
- Payment schedule shall not be more than once a month.

 Signature
 (Authorized Signing Official)

SECTION X
CONTRACT FORM

Republic of the Philippines
PHILIPPINE PORTS AUTHORITY
PPA Building, Bonifacio Drive, South Harbor,
Port Area, Manila, Philippines

CONTRACT
FOR THE BRGY. U-OG PORT DEVELOPMENT PROJECT
PORT OF BRGY. U-OG, INABANGA, BOHOL

KNOW ALL MEN BY THESE PRESENTS:

This Contract, made and entered into this _____ day of _____, 20____, in Manila, Philippines, by and between:

PHILIPPINE PORTS AUTHORITY, a government instrumentality created under Presidential Decree No. 857, as amended, with principal office at PPA Building, Bonifacio Drive, South Harbor, Port Area, Manila, represented herein by its duly authorized General Manager, **JAY DANIEL R. SANTIAGO**, and hereinafter referred to as "**PPA**";

- and -

_____, a corporation duly organized and existing in accordance with Philippine laws, with office and business address _____, represented in this act by _____, duly authorized for this purpose, as evidenced by Secretary's Certificate _____, a copy of which is hereto attached and made an integral part hereof as Annex "A", and hereinafter referred to as "**CONTRACTOR**"

WITNESSETH:

WHEREAS, in accordance with Republic Act No. 9184 and its Implementing Rules and Regulations, PPA advertised and published in a newspaper of general circulation and posted on the PPA website and G-EPS as well as in its bulletin board, an Invitation to Bid for the *Brgy. U-og Port Development Project, Port of Brgy. U-og, Inabanga, Bohol*;

WHEREAS, the **CONTRACTOR** and other prospective bidders submitted their respective bids for the foregoing project;

WHEREAS, after the opening of bids on _____, and the conduct of bid evaluation and required post-qualification, the bid submitted by the **CONTRACTOR** at its unit and lump sum prices set forth in its proposal was found to be the Lowest Calculated Responsive Bid in the amount of _____ (P _____), Philippine Currency;

WHEREAS, pursuant to Head Office BAC Resolution No. _____ Series of _____, award of the contract was made to the **CONTRACTOR** in a Notice of Award dated _____, in the amount of _____ (P _____), after submission of the required documents within the prescribed period and compliance to the conditions stipulated in the IRR;

WHEREAS, the **CONTRACTOR** duly accepted the award by signing its Conforme on the said Notice of Award;

NOW, THEREFORE, for and in consideration of the foregoing premises and the mutual covenants, stipulations and agreements herein contained, the PPA and the **CONTRACTOR** have agreed, as they do hereby agree, and contract as follows:

ARTICLE I

CONTRACT DOCUMENTS

1.01 The following documents shall constitute integral parts of this Contract, as fully as if the contents of the said documents are reproduced, incorporated and set forth herein, and shall govern and control in full force and effect the rights and obligations of the Parties, except as otherwise modified by the terms and conditions of this Contract, or by mutual agreement in writing of both parties, to wit

- a. Contract Agreement
- b. Bidding Documents
- c. Winning bidder's bid, including the Eligibility requirements, Technical and Financial Proposals and all other documents / statements submitted
- d. Performance Security
- e. Notice of Award of Contract; and
- f. Other contract documents that may be required by existing laws and the PPA such as:
 - (1) Construction Schedule and S-Curve
 - (2) Manpower Schedule
 - (3) Construction Methods
 - (4) Equipment Utilization Schedule
 - (5) Construction Safety and Health Program approved by the DOLE
 - (6) Pert / CPM
 - (7) Duly Approved Program of Work and Cost Estimates
 - (8) Certificate of Availability of Funds
 - (9) Abstract of Bids
 - (10) Resolution of Award

1.02 All Contract documents are and shall remain as the property of the PPA.

1.03 The words and expressions in this Contract shall have the same meanings respectively assigned to them in the Contract Documents referred to above.

ARTICLE II

CONTRACTOR'S UNDERTAKING SCOPE OF WORK

2.01 The CONTRACTOR, in consideration of the payment to be made by the PPA to the CONTRACTOR, as stated in the Contract Documents and this Contract, the latter hereby covenants to execute and complete the *Brgy. U-og Port Development Project, Port of Brgy. U-og, Inabanga, Bohol*, in conformity in all respects with the provisions of this Contract, as follows:

ITEMS	TOTAL AMOUNT
1. General Expenses	P
2. Back-Up Area and Causeway	P
3. Port Lighting System	P
4. Construction of Passenger Shed	P
TOTAL AMOUNT	P

2.02 The CONTRACTOR agrees to commence, perform and complete the work called for and defined in this Contract at its sole cost and expense, and to fully and faithfully furnish all materials, tools,

labor supplies, equipment, services and superintendence for the implementation of this Contract in accordance with the schedule in the Contract Documents forming integral parts of this Contract.

2.03 The CONTRACTOR guarantees, among others, that all tools, equipment, machineries, instruments, accessories and materials it will supply or deliver or install and/or use in the construction and workmanship of all his work under the Contract, shall be brand new and in accordance with the Contract Documents.

2.04 The CONTRACTOR recognizes the position of trust and confidence reposed in it under this Contract, and agrees to perform its obligations hereunder in the most efficient and competent manner, use its skill and good judgment, always set in good faith, and carry out the execution of this Contract in the most sound, expeditious and economical manner consistent with the interest of the PPA.

ARTICLE III

CONSIDERATION

3.01 For and in consideration of the full, satisfactory and faithful performance by the CONTRACTOR of all its undertakings defined in and provided for under this Contract and Contract Documents, the PPA agrees to pay the CONTRACTOR the total amount not exceeding (P_____).

Philippine Currency, inclusive of the 12% value added tax, payment to be made and computed on the basis of final quantities at the unit bid price for each item of work actually performed and finished for each pay item as determined and accepted by PPA and in the manner set forth in the Contract Documents, as full compensation for everything furnished and done by the CONTRACTOR under this Contract, including all works required but not specifically mentioned, and also for all losses and damages to the CONTRACTOR arising out of the work aforesaid, from the action of the elements, or from any obstruction or difficulty encountered in the prosecution of this Contract, for all expenses incurred by or in consequence of the suspension or discontinuance of the contract herein specified and for faithfully completing the contract and the whole thereof, at the time and in the manner provided in the Contract Documents.

It is agreed and understood that all bid prices specified in this contract shall be considered as fixed prices, and therefore not subject to price adjustment and escalation during the contract implementation, except under extraordinary circumstances and upon prior approval of the Government Procurement Policy Board (GPPB) or when a Treaty or International or Executive Agreement Expressly allows it. Any request for price escalation under extraordinary circumstances shall be submitted by PPA to the National Economic and Development Authority (NEDA). Extraordinary circumstances shall refer to events that may be determined by the NEDA in accordance with the Civil Code of the Philippines and upon recommendation of the PPA.

3.02 Final and full payment of the consideration herein above-mentioned shall be upon full completion of the project and fulfillment by the CONTRACTOR of all the terms and conditions set forth in this Contract.

However, it is agreed that no payment or payments made under this Contract, except the final payment upon issuance of Certificate of Completion and Acceptance, shall be understood as performance of this Contract, either wholly or in part, and no payment shall be construed to be an acceptance of defective work or improper implementation thereof.

3.03 Any payment due and payable to the CONTRACTOR may be set off against liquidated damages payable to the PPA by the CONTRACTOR under this Contract.

3.04 It is likewise understood that the CONTRACTOR shall show proof evidencing payments by the CONTRACTOR of labor, materials, supplies, insurance premiums, etc., used in the work, before any payment is made to it.

For this purpose, the CONTRACTOR shall, before payment is made on the works accomplished,

submit an affidavit certifying to the fact of payments of said labor, materials, supplies, equipment, insurance premiums, etc.

3.05 All payments shall be subject to existing government accounting and auditing rules and regulations.

3.06 Progress payments are subject to retention of ten percent (10%) referred to as the "retention money". Such retention shall be based on the total amount due to the contractor prior to any deduction and shall be retained from every progress payment until fifty percent (50%) of the value of works, as determined by the PPA are completed. If, after fifty percent (50%) completion, the work is satisfactorily done and on schedule, no additional retention shall be made; otherwise, the ten percent (10%) retention shall be imposed.

3.07 The total "retention money" shall be due for release upon final acceptance of the works. The CONTRACTOR may, however, request for the substitution of the retention money for each progress billing with irrevocable standby letters of credit from a Universal or Commercial Bank, of amounts equivalent to the retention money substituted for and acceptable to PPA, provided that the project is on schedule and is satisfactorily undertaken. Otherwise, the ten percent (10%) retention shall be made. Said irrevocable standby letters of credit to be posted in favor of PPA shall be valid for a duration to be determined by PPA and will answer for the purpose for which the ten percent (10%) retention is intended, i.e., to cover uncorrected discovered defects and third party liabilities.

ARTICLE IV

PERFORMANCE SECURITY

4.01 To guarantee the faithful performance of the CONTRACTOR of its obligations under this Contract, it shall post prior to the signing of the Contract a performance security in the form of irrevocable letter of credit issued by a Universal or Commercial Bank, and acceptable to PPA or a combination thereof as may be required by PPA, in accordance with the following schedule:

- | | | |
|----|--|---|
| a. | Irrevocable, letter of credit issued by a Universal or Commercial Bank | - Ten Percent (10%) of the total contract price |
| b. | any combination of the foregoing | - Proportionate to share of form with respect to total amount of security |

4.02 This performance security shall be denominated in Philippine Pesos and posted in favor of PPA, and shall be forfeited in favor of PPA in the event it is established that the CONTRACTOR is in default in any of its obligations under this Contract.

4.03 Subject to the conditions of the Contract, the performance security may be released by PPA after the issuance of the Certificate of Acceptance of the project, provided that PPA has no claims filed against the CONTRACTOR or the surety company and there are no claims for labor and materials filed against the contractor.

4.04 The CONTRACTOR shall post an additional performance security following the schedule above to cover any cumulative increase of more than ten percent (10%) over the original value of the contract as a result of amendments to order or change orders, extra work orders and supplemental agreements as the case may be. The CONTRACTOR shall cause the extension of the validity of the performance security to cover approved contract time extensions.

4.05 In case of a reduction in the contract value or for partially completed works under this contract which are usable and accepted by PPA, and the use of which in the judgment of PPA shall not affect the structural integrity of the entire project, PPA may allow a proportional reduction in the original performance security, provided that any such reduction is more than ten percent (10%) and that the aggregate of such reductions is not more than fifty percent (50%) of the original performance security.

ARTICLE V

COMPLETION TIME: LIQUIDATED DAMAGES

- 5.01 The CONTRACTOR agrees and obligates itself to perform and complete all works provided for in this Contract within _____ calendar days (including Sundays and Holidays), reckoned not later than seven (7) calendar days from issuance of the Notice to Proceed. Notice to Proceed shall be issued after this Contract has been signed by the Parties hereof.
- 5.02 Time is of the essence of this Contract. Should the CONTRACTOR refuse or fail to satisfactorily complete the work within the specified contract time, plus any time extension duly granted and is hereby in default under the contract, the CONTRACTOR shall pay the PPA for liquidated damages, and not by way of penalty, an amount as provided in the conditions of contract, equal to at least one-tenth (1/10) of one (1) percent of the cost of the unperformed portion of the works for every day of delay.
- 5.03 The project or a portion thereof may be deemed usable when it starts to provide the desired benefits as certified by the Facilities Construction and Maintenance Department of PPA.
- 5.04 It is understood that the damages herein provided are fixed and agreed liquidated damages and to be entitled to such damages, PPA does not have to prove that it has incurred actual damages. Such amount shall be deducted from any money due or which may become due the CONTRACTOR under the contract and/or collect such liquidated damages from the retention money or other securities posted by the CONTRACTOR, whichever is convenient to PPA.
- 5.05 In case that the delay in the completion of the work exceed a time duration equivalent to ten percent (10%) of the specified contract time plus any time extension duly granted to the CONTRACTOR, PPA may rescind the contract, forfeit the CONTRACTOR's performance security and take over the prosecution of the project or award the same to a qualified contractor through negotiated contract.
- 5.06 In no case, however, shall the total sum of liquidated damages exceed ten percent (10%) of the total contract price, in which event the contract shall automatically be taken over by PPA or award the same to a qualified contractor through negotiation and the erring CONTRACTOR's performance security shall be forfeited. The amount of the forfeited performance security shall be aside from the amount of the liquidated damages that the CONTRACTOR shall pay PPA under Section 5.02 hereof and impose other appropriate sanctions.

ARTICLE VI

EXTENSION OF CONTRACT TIME

- 6.01 Should the amount of additional work of any kind or other special circumstances of any kind whatsoever occur such as to fairly entitle the CONTRACTOR to an extension of contract time, PPA shall determine the amount of such extension; provided that PPA is not bound to take into account any claim for an extension of time unless the contractor has prior to the expiration of the contract time and within thirty (30) calendar days after such work has been commenced or after the circumstances leading to such claim have arisen, delivered to PPA notices in order that it could have investigated them at that time. Failure to provide such notice shall constitute a waiver by the CONTRACTOR of any claim. Upon receipt of full and detailed particulars, PPA shall examine the facts and extent of the delay and shall extend the contract time for completing the contract work when, in PPA's opinion, the findings of facts justify an extension.
- 6.02 No extension of contract time shall be granted the CONTRACTOR due to (a) ordinary unfavorable weather conditions; and (b) inexcusable failure or negligence of CONTRACTOR to provide the required equipment, supplies or materials.
- 6.03 Extension of contract time may be granted only when the affected activities fall within the critical path of the PERT/CPM network.

6.04 No extension of contract time shall be granted when the reason given to support the request for extension was already considered in the determination of the original contract time during the conduct of detailed engineering and in the preparation of the contract documents as agreed upon by the parties before contract perfection.

6.05 Extension of contract time shall be granted for rainy/unworkable days considered unfavorable for the prosecution of the works at the site, based on the actual conditions obtained at the site, in excess of the number of rainy/unworkable days predetermined by the PPA in relation to the original contract time during the conduct of detailed engineering and in the preparation of the contract documents as agreed upon by the parties before contract perfection and/or for the equivalent period of delay due to major calamities such as exceptionally destructive typhoons, floods and earthquakes, and epidemics, and for causes such as non-delivery on time of materials, working drawings, or written information to be furnished by the PPA, non-acquisition of permit to enter private properties within the right-of-way resulting in complete paralization of construction activities, and other meritorious causes as determined by the PPA's authorized Engineer and approved by the PPA. Shortage of construction materials, general labor strikes, and peace and order problems that disrupt construction operations through no fault of the CONTRACTOR may be considered as additional grounds for extension of contract time provided they are publicly felt and certified by appropriate government agencies such as DTI, DOLE, DILG and DND, among others. The written consent of bondsmen must be attached to any request of the CONTRACTOR for extension of contract time and submitted to the PPA for consideration and that the validity of the performance security shall be correspondingly extended.

ARTICLE VII

ENTIRE CONTRACT

7.01 Provisions to the contrary notwithstanding, it is agreed that this is an entire contract for one whole complete work and that partial payments on account by the PPA or the use of parts of the work or equivalent shall not constitute an acceptance of any part of the work before its entire completion and final acceptance in writing by the PPA.

ARTICLE VIII

CONTRACTOR'S LIABILITY

8.01 The Parties, likewise, hereby agree that the employees of the CONTRACTOR are not employees of the PPA; hence, the PPA shall not in any way be liable or responsible for any personal injury or damages including death sustained or caused by any of the employees of the CONTRACTOR and/or his sub-contractor or agent or supplier whether or not occurring during the performance of their duties. The CONTRACTOR agrees and binds itself to indemnify the PPA for whatever injuries or damages caused or occasioned or contributed to by the failure, negligence or conduct of the CONTRACTOR and/or its employees, sub- contractors, agent and supplier or consultants arising out of or in connection with or on the occasion of the performance of this Contract. The CONTRACTOR shall, at all times, stand solely liable and/or responsible for the enforcement of, and compliance with all existing laws, rules and regulations and binds itself to save and hold the PPA free and harmless from any and all liability in respect thereof and/or arising therefrom and/or by reason of this Contract and its implementation.

ARTICLE IX

RESPONSIBILITY OF THE CONTRACTOR

9.01 The CONTRACTOR shall assume full responsibility for the entire contract work until its final acceptance by the PPA and shall be held responsible for any damage or destruction of works until such final acceptance.

9.02 The CONTRACTOR shall be fully responsible for the safety, protection, security and convenience of its personnel, third parties and the public at large, as well as the works, equipment,

installation and the like to be affected by the construction work.

9.03 Any actionable act or acts of _____ arising out of or in the course of this Contract shall be understood and binding as an act of _____ and vice-versa.

ARTICLE X

INSPECTION AND CONSTRUCTION OF CONTRACT WORK

10.01 Inspection of the contract work shall be made by the PPA while such contract work is in progress to ascertain that the completed works or stages comply in all respects, with the standards and requirements set forth in the Contract Documents. Notwithstanding such inspection, the CONTRACTOR shall be held responsible for the acceptability of the finished works. The CONTRACTOR shall promptly correct all works determined by the PPA as failing to meet requirements, at CONTRACTOR's own expense.

ARTICLE XI

NON-ASSIGNMENT AND NO SUBCONTRACT

11.01 The CONTRACTOR shall not, without the written approval of the PPA, assign, transfer, pledge, sub-contract, or make any other disposition of interest in this Contract. Any unapproved assignment, transfer, pledge, sub-contract or any other disposition, shall be sufficient ground for the PPA to terminate or cancel this Contract *motu proprio* without need of judicial action pursuant to Section 19.04 hereof. Should the PPA give its written approval, such consent shall not relieve the CONTRACTOR of its responsibilities under the Contract. The CONTRACTOR shall ensure that the terms and conditions of any such sub-contract shall comply and conform with the terms and conditions of the Contract. The CONTRACTOR shall be responsible for the observance by any such sub-contractor of the terms and conditions of the Contract.

11.02 If any portion of the project sub-contracted is not prosecuted faithfully in accordance with the Contract, the sub-contractor shall be removed or replaced immediately upon the written request of the PPA, provided, however, that any failure of PPA to make such a request shall not relieve the CONTRACTOR of its obligations under the contract. PPA shall not be responsible for the delays or costs incurred by the CONTRACTOR because of the disapproval or removal of the sub-contractor or because of the late submittal of its or his approval.

ARTICLE XII

INSURANCE

12.01 The CONTRACTOR shall, prior to the commencement of work, secure the standard CONTRACTOR's all risk insurance (CARI) from the Government Service Insurance System (GSIS) or any insurance company duly certified by the Insurance Commission as authorized to issue such insurance, to insure the works against all losses or damages arising from whatever cause for which the CONTRACTOR is responsible under the Contract.

ARTICLE XIII

WARRANTY

13.01 The CONTRACTOR shall assume full responsibility for the contract work from the time project construction commenced up to final acceptance thereof by the PPA and shall be held responsible for any damage or destruction of the works, except those occasioned by force majeure. The CONTRACTOR shall be responsible for the safety, protection, security, and convenience of its personnel, third parties, and the public at large, as well as the works, equipment, installation and the like

to be affected by the construction work.

13.02 The defect liability period for the project covered by this Contract shall be one (1) year from project completion up to final acceptance thereof by the PPA. During this period, the CONTRACTOR shall undertake and complete the repair works, at its own expense, of any damage to the said project within NINETY (90) DAYS from the time the PPA General Manager or his duly authorized representative has issued an order to undertake repair. In case of failure or refusal to comply with this order, PPA shall undertake such repair works and the CONTRACTOR shall fully reimburse the former for all the expenses incurred therein upon demand.

13.03 After final acceptance of the project by the PPA, the CONTRACTOR shall be responsible for structural defects and/or failure of the said project within the period of FIFTEEN (15) YEARS from the date of final acceptance thereof by the PPA. For this purpose, the CONTRACTOR shall put up a warranty security in the form of letter of credit issued by a Universal or Commercial Bank or Bank guarantee confirmed by a Universal or Commercial Bank and acceptable to PPA in accordance with the following schedule:

- | | |
|--|---|
| a. Letter of Credit issued by a
Universal or Commercial Bank | - Five percent (5%) of the total contract price |
| b. Bank guarantee confirmed by a
Universal or Commercial Bank | - Ten percent (10%) of the total contract price |

The warranty security shall be denominated in Philippine Pesos, remain effective for one (1) year from the date of issuance of the Certificate of Final Acceptance by PPA and be returned only after the lapse of the said one (1) year period.

ARTICLE XIV

TAXES, LICENSES, PERMITS AND FEES

14.01 The CONTRACTOR's tax, licenses, permits, fees and all other taxes, fees or charges of whatever form, kind or nature due or which may be due to the national and/or local government units and/or its instrumentalities/agencies on account of the performance and completion of the work stipulated herein, fees for the testing of materials and samples and fees for the testing and inspection of the installation by all agencies having jurisdiction and all necessary and incidental expenses relative thereto including preparation of documents and notarial fees shall be paid for and obtained by the CONTRACTOR on its own account. Should the PPA be compelled to advance the same, PPA is hereby authorized to deduct the amount advanced from whatever amount due the CONTRACTOR from PPA.

14.02 The CONTRACTOR shall pay taxes in full and on time and that failure to do so shall entitle PPA to suspend payment to the CONTRACTOR. Further, the CONTRACTOR shall during the term of this Contract regularly present to PPA a tax clearance from the Bureau of Internal Revenue (BIR) as well as a copy of its income and business tax returns duly stamped and received by the BIR and duly validated with the tax payments made thereon.

ARTICLE XV

AGREEMENT MODIFICATION

15.01 No modification, alteration or waiver of any provision herein contained shall be binding on the Parties hereto unless evidenced by a written amendment signed by the parties hereof.

15.02 A variation order (change order/extra work order) may be issued by PPA under the conditions set forth in the applicable provisions of Republic Act No. 9184 and its Implementing Rules and Regulations.

15.03 The PPA may, at any time by written order and without notice to the Sureties, direct the CONTRACTOR to perform additional/extra work necessary to and within the General Scope of the

project as bid and awarded. The CONTRACTOR shall be paid for additional/extra work items whose unit prices shall be derived based on the following:

- a. For additional/extra works duly covered by change orders involving work items which are exactly the same or similar to those in the original contract, the applicable unit prices of work items in the original contract shall be used.
- b. For additional/extra works duly covered by Extra Work Orders involving new work items that are not in the original contract, the unit prices of the new work items shall be based on the direct unit costs used in the original contract (e.g. unit cost of cement, rebars, form lumber, labor rate, equipment rental, etc.). All new components of the new work item shall be fixed prices, provided the same is acceptable to both PPA and the CONTRACTOR, and provided further that the direct unit costs of new components shall be based on the CONTRACTOR's estimate as validated by PPA via documented canvass in accordance with existing rules and regulations. The direct cost of the new work item shall then be combined with the mark-up factor (i.e., taxes and profit) used by the contractor in his bid to determine the unit price of the new work item.

15.04 Request for payment by the CONTRACTOR for any extra work shall be accompanied by a statement, with the approved supporting forms, giving a detailed accounting and record of amount for which he claims payment. Said request for payment shall be included with the CONTRACTOR's statement of progress payment.

ARTICLE XVI

SUSPENSION OF WORK

16.01 The PPA or its duly authorized representative shall have the authority to suspend the work wholly or partly by written order for such period as may be deemed necessary, due to force majeure or any fortuitous events or for failure on the part of the CONTRACTOR to correct bad conditions which are unsafe for workers or for the general public to carry out valid orders given by PPA or to perform any provisions of the Contract, or due to adjustment of plans to suit field conditions as found necessary during construction. The CONTRACTOR shall immediately comply with such order to suspend the work wholly or partly.

In case of total suspension, or suspension of activities along the critical path, which is not due to any fault of the CONTRACTOR, the elapsed time between the effective order of suspending operation and the order to resume work shall be allowed the CONTRACTOR by adjusting the contract time accordingly.

ARTICLE XVII

INDIVISIBILITY OF OBLIGATION

17.01 It is the intent of the Contract that all the documents, annexes and addenda forming part hereof, shall be read together and that each and every provision or stipulation hereof be given full force, effect and applicability. However, in the event that one or more provisions or stipulations herein be declared null and void by the courts, or otherwise rendered ineffective, the remaining provisions and stipulations shall not be affected thereby.

ARTICLE XVIII

ARBITRATION/REMEDY AND RELIEF

18.01 Should there be any dispute or difference of any kind whatsoever which shall arise between the parties in connection with the implementation of this Contract; the Parties hereto shall make every effort to resolve amicably such dispute or difference by mutual consultation. In the event that such dispute or

disagreement be not resolved to their mutual satisfaction, the matter shall be submitted to arbitration in the Philippines according to the provisions of Republic Act No. 876, otherwise known as the "Arbitration Laws" and Republic Act No. 9285; otherwise known as the "Alternative Dispute Resolution Act of 2004". Provided, however, that disputes that are within the competence of the Construction Industry Arbitration Commission to resolve shall be submitted thereto. Provided, further, that, by mutual agreement, the parties hereto may agree in writing to resort to other alternative modes of dispute resolution. Provided, finally, that the arbitration proceeding shall be without prejudice to the right of PPA to rescind or terminate this contract in accordance with Article XIX, Section 19.04 hereof.

18.02 Should the PPA be constrained to resort to court action to enforce or safeguard its rights and interests under this Contract, the CONTRACTOR shall be liable to the PPA for attorney's fees in an amount equivalent to Twenty Percent (20%) of the total sum claimed in the complaint, exclusive of other damages and the expenses of litigation. Venue of all court actions in connection with or arising out of this contract shall be laid exclusively in the proper court of the City of Manila.

18.03 It is clearly understood that in case a dispute or disagreement arises between the PPA and the CONTRACTOR regarding the manner by which the latter is performing works, the CONTRACTOR shall follow the instruction of the PPA relative thereto, otherwise, it shall have no right to ask for arbitration or go to court for relief.

ARTICLE XIX

OTHER COVENANTS

19.01 It is expressly agreed and understood that in case of irreconcilable conflict between the provisions of this Contract and the provisions of any of the contract documents, the former shall be controlling.

19.02 It should also be clearly understood that any payment or failure of the PPA to demand compliance with any of the terms and conditions of this Contract or any act of liberality on the part of the PPA shall not be construed or considered as a waiver on the part of the PPA for the enforcement of this Contract, nor shall it relieve the CONTRACTOR of any of its obligations provided thereunder.

19.03 Under no circumstances shall the PPA be held liable for the payment of any extra work, or extra cost of work, change of work, or change order undertaken without the prior written approval of the PPA to perform said work.

19.04 Notwithstanding any provision to the contrary, the PPA has the right to terminate, cancel and/or rescind this Contract **motu proprio**, in case of breach thereof by the CONTRACTOR, without need of judicial action by giving at least TEN (10) Days written Notice to that effect to the CONTRACTOR, which Notice shall be final and binding on all the parties. In such event, the PPA may take over and continue the project, and the contracts and agreements entered into by the CONTRACTOR with third parties, which the PPA in its discretion, may want to assume are hereby conclusively deemed assigned to the PPA. For this purpose, the CONTRACTOR here agrees and obligates itself to incorporate or cause to be incorporated in any contract or agreement with third parties, as same is connected with or related to the performance of any or all of the CONTRACTOR's obligations and undertakings hereunder, a stipulation providing for its assignability to and assumption by the PPA, at the option of the PPA. It is further agreed and understood that upon receipt of the Notice mentioned above, the CONTRACTOR cannot remove, withdraw or pull-out any of the equipment, machineries, tools, materials, and/or supplies brought to the project site without the written approval of the PPA.

Within thirty (30) days after termination, cancellation or rescission of this Contract, the Parties shall settle their respective accountabilities as of the date of termination, cancellation or rescission, including the refund of any and all advances made plus legal interest from date of receipt of the amount or amounts advanced.

19.05 It is expressly agreed that whenever the CONTRACTOR is behind schedule in its contract work and incurs ten (10%) percent or more negative slippage based on its approved PERT/CPM, the PPA may undertake the whole or portion of the unfinished work by administration or by negotiation through another qualified CONTRACTOR.

Whenever a work activity in the project is not being done on schedule per approved PERT/CPM, the PPA shall notify and direct the CONTRACTOR to immediately undertake such work activity. If within fifteen (15) days from receipt of such notice, the CONTRACTOR fails to start work and to show a satisfactory performance, PPA may take over the whole or portion of such work and have such work done by administration or award the same to another qualified contractor through negotiated contract at the current valuation price.

19.06 The PPA has the right to require the CONTRACTOR to supply and provide the required tools, materials, supplies, equipment, facilities, and to increase the number of workers assigned to the work when exigencies of the service so require. Should the CONTRACTOR fail, refuse or neglect to comply with the same, PPA shall have the option to take over the project in whole or in part or award the same to another CONTRACTOR through negotiated contract at the current valuation price. Any increase in cost which the PPA may incur as a result of its take-over of the project pursuant to Sections 19.04, 19.05 and 19.06 shall be borne by and charged to the CONTRACTOR.

19.07 The CONTRACTOR shall provide and do everything necessary to perform its obligations under this Contract according to the true intent and meaning of all the Contract Documents taken together, whether the same may or may not be shown or described particularly in the drawings, plans and specifications provided that the same can be inferred therefrom. Should the CONTRACTOR find discrepancy in the drawings, plans and specifications, it shall immediately refer the same to the PPA, whose decision shall be followed.

19.08 The CONTRACTOR agrees and obligates itself to restore to its original condition, on its own account, any public road, pavement, streets or open space and/or public or private property which are excavated or in any manner used by the CONTRACTOR in connection with the performance of its obligations under this Contract.

19.09 The CONTRACTOR agrees and binds itself to hold and save PPA free and harmless from any damage, claims and rights of action by third parties arising out of or by reason of this Contract and all injuries that may be suffered by PPA due to the failure, negligence, delay or conduct on the part of the CONTRACTOR and/or its employees in the performance of their obligations under this Contract.

19.10 No final payment of the contract shall be made to the CONTRACTOR without the Certificate of Completion and/or Acceptance from the Office of the Municipal Engineer of the Municipality concerned of the local works to be restored mentioned in Section 19.08 hereof, otherwise the cost of restoration shall be made available out of any collectible/receivable by the CONTRACTOR from the PPA.

19.11 Notwithstanding any extra work, change of work or orders made, if any, by the PPA, it is agreed that the same shall be completed within the period herein fixed and provided.

19.12 The CONTRACTOR shall hold the PPA free and harmless from whatever suit and hereby binds and obligates itself to indemnify the PPA for any and all liabilities, losses, damages, judgment, awards, fines, penalties and all expenses, legal or otherwise, of whatever kind and nature, arising from and by reason of this Contract, due to the fault, negligence, act, omission, delay, conduct, breach of trust or non-observance or violation of this Contract or any stipulation and warranty by the CONTRACTOR and/or any of its employees, agents, representatives or sub-contractors.

ARTICLE XX

SPECIAL REPRESENTATION

20.01 The CONTRACTOR hereby represents that all documents it submitted which form integral parts

hereof are authentic and duly executed with all the required formalities for the same, and that the facts and/or date contained therein are true and correct. A breach of this representation including all misrepresentation in the documents or suppression of material facts therein, which if known, could have disqualified the CONTRACTOR such that this contract would not have been made and entered into, gives the PPA the immediate right or recourse to *motu proprio* rescind, abrogate or otherwise terminate the contract without need of judicial action, in accordance with Section 19.04 hereof.

20.02 The CONTRACTOR hereby warrants that it has not given nor promised to give any money, gift or any material favor/consideration to any official or employee of the PPA to secure this Contract; that any violation of this warranty shall be sufficient ground for the PPA to revoke or cancel this Contract extrajudicially or without need of judicial intervention.

ARTICLE XXI

BUDGETARY REQUIREMENT

21.01 The parties hereto hereby adopt and incorporate herein by reference, Letter of Instruction No. 767 dated 16 November 1978, issued by the Office of the President, as implemented by the Letter Circular, dated 7 December 1978, of the Department of Budget and Management.

ARTICLE XXII

EFFECTIVITY

22.01 This Contract shall become effective after the same shall have been signed by the Parties hereof. IN WITNESS WHEREOF, the Parties have hereunto signed this Contract on the date and place first hereinabove written.

PHILIPPINE PORTS AUTHORITY

By:

Jay Daniel R. Santiago
General Manager

By:

WITNESSES:

Mark Jon S. Palomar
Chairperson Head Office Bids and Awards Committee

ACKNOWLEDGMENT

REPUBLIC OF THE PHILIPPINES)
City of _____) S.S.

BEFORE ME, a Notary Public for and in the City of _____, this ____ day of _____, 20____, personally appeared the following:

NAME	Proof of Identity	DATE	PLACE
Jay Daniel R. Santiago	_____	_____	_____
_____	_____	_____	_____

Known to me and to me known to be the same persons who executed the foregoing instrument as:

POSITION	COMPANY	CTC No.	DATE	PLACE
General Manager	Philippine Ports Authority	_____	_____	_____
_____	_____	_____	_____	_____

and they acknowledged to me that the same is their own free act and deed as well as the free and voluntary act of the corporation they represent.

This foregoing instrument is a Contract for the *Brgy. U-og Port Development Project, Port of Brgy. U-og, Inabanga, Bohol*, consisting of 13 pages, including this page on which this acknowledgment is written, signed by the parties and their instrumental witnesses on each and every page thereof.

IN WITNESS WHEREOF, I have hereunto affixed my hand and notarial seal on these presents at the place and on the date first above written

Doc. No. _____;
Page No. _____;
Book No. _____;
Series of 20 _____;