

FINISHES OF CONCRETE

Within 12 hours after the forms are removed, surface defects shall be remedied as specified herein. The Temperature of the concrete, ambient air and mortar during remedial work including curing shall be above 10 °C. Fine and loose material shall be removed. Honeycomb, aggregate pockets, voids over 13mm in diameter, and holes left by the rods or bolts shall be cut out to solid concrete, reamed, thoroughly wetted, brush-coated with neat cement grout, and filled with mortar. Mortar shall be a stiff mix of one part Portland cement to not more than 2 parts fine aggregate passing the No. 16 mesh sieve, with a minimum amount of water. The color of the mortar shall match the adjoining concrete color. Mortar shall be thoroughly compacted in place. Holes passing entirely through walls shall be completely filled from the inside face by forcing mortar through the outside face. Holes which do not pass entirely through wall shall be packed full. Patchwork shall be finished flush and in the same plane as adjacent surfaces. Exposed patchwork shall be finished to match adjoining surfaces in texture and color. Patchwork shall be damp-cured for 72 hours. Dusting of finish surfaces with dry material or adding water to concrete surfaces will not be permitted.

CONCRETE FINISHING DETAILS

1. Concrete Paving

After concrete is placed and consolidated, slabs shall be screeded or struck off. No further finish is required.

2. Smooth Finish

Required only where specified; screed concrete and float to required level with no coarse aggregate visible. After surface moisture has disappeared and laitance has been removed, the surface shall be finished by float and steel trowel. Smooth finish shall consist of thoroughly wetting and then brush coating the surfaces with cement to not more than 2 parts fine aggregate passing the no. 30 mesh sieve and mixed with water to the consistency of thick paint.

3. Broom Finish

Required for paving; the concrete shall be screeded and floated to required finish level with no coarse aggregate visible. After the surface moisture has disappeared and laitance has been removed, surface shall be float-finished to an even, smooth finish. The floated surfaces shall be broomed with a fiber bristle brush in a direction transverse to the direction of the main traffic.

ITEM 04 : STEEL WORKS

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 includes the furnishing of all labor, materials, equipment, tools and incidentals required to complete all steel works in accordance with the Specifications and as indicated in the drawings.

SUBMITTAL

1. Manufacturer's technical data for products and processed used in steel fence and gate , including finishes and grout.
2. Shop drawings showing details of fabrication and installation including plans, elevations, sections, profiles of main members, fittings, connections and other accessories.
3. Prepare samples for each type of steel and stainless steel hairline finish. Where finish involves normal color and texture variations, include sample sets composed of two or more units showing limits of such variations expected in completes works.
 - a. Include 6" samples of each distinctly different steel member for fence and gate. Include samples of fittings and brackets if requested by the Architect.
 - b. Include sample of typical welded connection.

QUALITY ASSURANCE

Single Source Responsibility

Obtain material of each type of steel member from a single manufacturer.

STORAGE

Store steel members in clean, dry location, away from uncured concrete and masonry, protected against damage of any kind. Cover with waterproof paper, tarpaulin, or polyethylene sheeting; allow for air circulation inside the covering.

FABRICATION

General

Fabricate fence and gate to design, dimensions and details shown. Provide steel members in sizes and profiles indicated. With supporting posts and brackets or size and spacing shown, but not less than required to comply with requirements indicated for structural performance.

Shop Assembly

Pre-assembled the items in shop to greatest extent possible, to minimize field splicing and assembly. Disassemble units only as necessary for shipping and handling limitations. Clearly mark units for reassembly and coordinated installation.

Welded Connections

Fabricate steel members for welding of interconnections. Use welding method, which is appropriate for metal and finish, indicated and develops strength required to comply with structural performance criteria. Finish exposed welds and surfaces smooth, flush and blended to match adjoining surfaces.

Furnish inserts and other anchorage devices for connecting steel fence and gate to concrete or masonry work. Fabricate anchorage devices, which are capable of withstanding loading imposed by steel fence and gate.

MATERIALS

General

Comply with standards indicated for forms and types of metals indicated or required for steel fence and gate.

- a. Steel Fence
As indicated on plans
- b. Stainless Steel Gate
As indicated on plans

Refer to plans for the required dimension of various types of steel and location.

Miscellaneous materials or accessories not listed above shall be provided as specified hereinafter the various items of work and/or indicated on the drawings, or in accordance with manufacturer's specifications.

METAL FINISHES

Comply with NAAMM "Metal Finishes Manual" for recommendations and designations of finishes, except as otherwise indicated.

EXECUTION

PREPARATION

- a. Coordinate setting drawings, diagrams, templates, instructions and directions for installation of fittings, accessories and miscellaneous items, which are to be embedded in concrete and masonry construction. Coordinate delivery of such items to project site.
- b. Field Measurements
Take field measurements prior to fabrication.

INSTALLATION

General

- a. Fit exposed connections accurately together to form tight, hairline joints.
- b. Perform cutting, drilling and fitting required for installation of fence and gate. Set work accurately in location, alignment and elevation, plumb, level, true and free rack, measured from established lines and levels.
- c. Field Welding

Comply with applicable AWS specification for procedures of manual shielded metal-arc welding, for appearance and quality welds made, and for methods used in correcting welding work. Weld

connections that are not to be left as exposed joints, but cannot be shop welded because of shipping size limitations. Grind exposed welded joints smooth and restore finish to match finish of adjacent surfaces.

- d. Prior to connecting, adjust steel members to ensure matching alignment at abutting joints. Space posts at interval indicated but not less than that required by design loading.

ANCHORING POSTS

- a. Concrete-Anchored Posts: Provide Chiseled opening on concrete base as indicated on the drawings to receive railing posts and required anchoring system, holes or all loose material, insert posts, and fill annular space between post and concrete with non-shrink, non-metallic epoxy grout, mixed and placed to comply with grout manufacturer's directions.

PROTECTION

- a. Protect finishes of fence and gate from damage during construction period by use of temporary protective coverings approved by railing manufacturer. Remove protective covering at time of Substantial Completion.
- b. Restore finishes damaged during installation and construction period so that no evidence remains of correction work. Return items which cannot be refinished in the field to the shop; make required alterations and refinish entire unit, or provide new units as required.

ITEM 05 : ROOFING AND TINSMITHRY

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 include but not limited to all labor, materials, tools, equipment and incidentals necessary to furnish and install the roofing sheets including fittings and ridge rolls, to provide completely sound water tight roof for the buildings as shown on the drawings and specified herein.

MATERIALS REQUIREMENTS

ROOFING SHEETS

Roof Panel, Long Span, pre-painted, pre-insulated roof panel system, composed of an exterior metal skin cladding using "snap on side overlap" fastening system and an interior liner cladding of either metal skin or aluminum craft vapor barrier sandwiched between is PIR "Polyisocyanurate" foam to provide a high level thermal insulation.

Base Metal thickness	:	From 0.40mm to 0.60mm (standard) a specific tonnage is required for non-standard thickness
Effective Coverage	:	1000mm
Rib Height	:	33mm
Rib Spacing	:	250mm
Length	:	up to transportable length (long span), minimum chance of leaks
Materials Finish	:	Colorlume, Galvalume, PVDF Aluminum and Stainless
Insulation Thickness	:	25mm Thk
Insulation Materials	:	Polyisocyanurate (PIR) / Polyurethane (PU)

EXECUTION

ROOFING SHEETS

1. Roof, Long Span

Spacing of purlins safe at 1.0m to 1.2m.

At least 28 days before the laying of roofing sheet start, the Contractor shall submit for approval of the Project-In-Charged, shop drawings indicating materials and method of installation. No roofing sheets laying work shall commence without the Project-In-Charged approval of the shop drawings and work method.

Laying shall start from the end opposite the side from where the prevailing monsoon is coming from. The first sheet shall be aid and installed with the turned down edge towards the outside of the area to be covered. The next sheet shall be overlapped to the previous sheet in such manner that the exposed edge is turned down and the covered edge is turned up. The overlapped edge in the side shall be with the rib having the anti-capillary groove. End and side laps including flashing shall be as approved by the Project-In-Charged.

The traps shall be fixed and fastened with the fastener and washer as shown on the drawings.

HANDLING AND STORAGE

Sheet shall be lifted directly and shall not be dragged over the sheets or over rough surfaces.

When working on a roof, the workers shall wear flat rubber soled shoes.

Tool shall be handled carefully to prevent them from sliding over the coated surface.

When installation work is completed, all metals off-cuts, used nails and other metallic scrap shall be removed from the roof area.

When using drills, hacksaws, or files in the roof area, care shall be taken that metal particles and fillings are swept off the roof immediately.

If not required immediate use, sheets or bundles shall be staked and clear off the ground. If left in the open, sheets shall be protected by loose tarpaulin or similar covers.

Bundles shall not be left expose to the weather.

ITEM 06 : FINISHES

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 includes the furnishing of all labor, materials, equipment, tools and incidentals required to complete all finishing works in accordance with the Specifications and as indicated in the drawings.

CEILING

MATERIAL REQUIREMENTS

- 1. Replacement of 6mm Thick Fiber Cement Board, painted finish, on existing framing, with ¾" back screw or approved equivalent.

Locations are shown in the plan.

SUBMITTAL

- 1. Shop drawings for all finishing and painting works for the building shall be submitted in advance to allow twenty eight days for review and approval. Shop drawings shall indicate materials and details of finishing works. The Contractor shall be responsible for all errors of detailing and fabrication, and for the correct finishing work items shown on the shop drawings.
- 2. The Contractor, before placing order or the finishing materials shall submit to the Engineer for the approval representative sample of finishing materials. No placing of orders for material for finishing works shall be made without his approval.
- 3. Samples of all ceiling finishes, measuring not less that 100mm x 100mm shall be submitted to the Engineer for approval as to its finish texture and workmanship.

DOORS AND WINDOWS

- 1. Surface Preparation

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

MATERIAL REQUIREMENTS

- D1 Aluminum Powder Coated 2 Panel Swing In and Out Door w/ 4 Sets Fixed Glass w/ Tub 1 – ¾ x 4 and 8mm Thick Reflected Glass (1.2m x 2.1m)
- D2 Aluminum Powder Coated 2 Panel Swing Door w/ Fixed Glass on Upper Part w/ Tub 1 – ¾ x 3 and 8mm Thick Reflected Glass (1.2m x 2.1m)
- W1 Aluminum Powder Coated Window 6 Panel Sling Window w/ Fixed Glass on Upper Part w/ Tub 1 –¾ x 3 and 8mm Thick Reflected Glass (1.5m x 3.6m)
- W2 Aluminum Powder Coated Window 2 Panel Sling Window 1 –¾ x 3 and 8mm Thick Reflected Glass (1.5m x 2.0m)

Refer to plans for locations, dimensions and details.

ITEM 07 : 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 coating 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 Project-In-Charged.

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 Project-In-Charged 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 Project-In-Charged 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 Project-In-Charged.
 - 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

Paints for the protective coating system shall be product of a manufacturer approved by the Project-In-Charged.

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.

Use 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 galvanized and un-galvanized ferrous metal, use a 100% acrylic gloss paint, has excellent resistance to ultraviolet rays and resist chalking, cracking and color fading, dries fast and environmentally friendly.

SCHEDULE OF PAINTING

1. For repainting of Concrete Surfaces

First Coat	Gypsum Putty or approved equal
Second and Third Coats	Latex Paint or approved equal Reflectorized Paint
2. For painting of Steel Surfaces

First Coat	Metal Primer
Second and Third Coats	Quick Dry Enamel or approved equal
3. For painting of Fiber Cement Surface

First Coat	Gypsum Putty or approved equal
Second and Third Coats	Latex Paint 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 1.8mm 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 dew point, 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 surface 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. Surface not to be painted shall be suitably protected from the effects of cleaning and painting operations.

SURFACE PREPARATION OF CONCRETE AND PLASTER

Concrete and cement plaster surface 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 OF FIBER CEMENT SURFACE

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 application of finish coats, touch-up coats shall be applied to suction spots.

ALUMINUM FRAMED 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 of exposed areas. On details which are to be treated mechanically after coating (drilling, sawing, etc.), the coating film must not exceed 100 microns.

Powder coating shall be oven cured in the range of 20 minutes at 220°C (metal temperature measured on the area with the 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.

MIXING AND THINNING

Mixing and thinning of paint shall be in accordance with the approved manufacturer's printed instructions. The pot life of 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%. 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 surface shall be free from runs, shop, ridges, waves, laps and unnecessary brush marks. All coats shall be applied in such matter 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 paint shall be done by thoroughly experiences 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 shall be applied carefully with good clean brushed or approved spraying equipment, except that the initial coat on any surfaces 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.

Finish coat shall be smooth and free from runs, sags, and other defects. Exterior paint shall not be applied on 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 he 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 excess of 125cc 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, pre-treated 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 surface.

The first coat of paint on all exterior surface shall be applied by brush. Interior prime coats and all other subsequent coats on either exterior 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-emulsion 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 containers shall be removed from the site or destroyed in a manner approved by the Project-In-Charged. Paint spots, or stains upon adjacent surfaces shall be removed and the entire job left clean and acceptable to the Project-In-Charged.

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 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, and 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 the touched up with the same paint and the same thickness as the undamaged areas as specified.

INSPECTION

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

ITEM 08 : ELECTRICAL SYSTEM

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 include but not limited to all labor, materials, tools, equipment and incidentals necessary to furnish and install all electrical fixtures, wires and cables including fittings and accessories, to provide complete and efficient electrical system in the area as shown on the drawings and specified herein.

WIRE AND POWER CABLE

1. GENERAL

- a. Provide wire and cables with a minimum rating of 600 volts, except for wire used in 50 volts or below applications. For control or signal systems use 300 volt minimum or 600 volt where permitted to be incorporated with other wiring systems. All wires and cables shall be color coded or as required.

2. CONDUCTORS

- a. Electrical grade, annealed copper, tinned if rubber insulated, and fabricated in accordance with ASTM standards.

3. STRANDING AND NUMBER OF CONDUCTORS

- a. 3.5mm² and below shall be solid.
- b. Cables larger than number 5.5mm² shall be stranded and in accordance with ASTM Class B stranding designations.
- c. Control wires stranded in accordance with ASTM Class B stranding designations.
- d. Cables, multi-conductor unless otherwise noted for low tensions systems.

4. INSULATED SINGLE CONDUCTOR

- a. Type THWN - Thermoplastic insulation suitable for use in wet locations up to 75°C
- b. Type THHN - Flame Retardant : Heat-resistant thermoplastic insulation, nylon jacket rated for 90°C operation

5. MULTI-CORE OR SINGLER-CORE INSULATED POWER CABLE

- a. Sizes as shown on Drawings
- b. Suitable for direct burial, duct, open air or conduit installation
- c. Temperature Rating: 90°C Dry / 75°C Wet

- d. Three non-insulated ground wires for three conductor cables and two non-insulated ground wires for four conductor cables in cable interstices with conductivity of approximately one-half that of one phase conductor.
- e. Cross-Linked Polyethylene Conductor Insulation: Insulation thickness satisfying requirements of ICEA Pub. No. S-66-524 (NEMA WC 7), Table 4-5
- f. Shielding: shielding requirements must satisfy I.E.C. 60502 for each operating voltage
- g. Overall polyvinyl chloride jacket satisfying requirements of ICEA Pub. No. S-66-524 (NEMA WC 7), Table 4-5.

6. MULTI-CONDUCTOR CONTROL AND SUPERVISORY CONTROL CABLES

- a. Size AWG No. 16 (1.6mm²)
- b. Suitable for direct burial, open air, duct or conduit installation
- c. Temperature Rating: 75°C Wet or Dry
- d. Non-insulated ground wire
- e. PVC or cross-linked polyethylene conductor insulation; thickness satisfying requirements of ICEA Pub. No. S-66-524 (NEMA WC 7), Table 3-1, for cross-linked thermosetting polyethylene insulated conductors or ICEA Pub. S-61-402 (NEMA WC 5), for polyvinyl chloride insulated conductors.
- f. Flame retardant overall polyvinyl jacket satisfying requirements of ICEA Pub. S-61-402 (NEMA WC 5), Table 7.4-2 or ICEA Pub. S-55-524 (NEMA WC 7), Table 4-5
- g. Individual conductors bound together with overall binder tape prior to jacket application
- h. Individual conductors rating of 300 volts (instead of 600 volts) for cables designated Supervisory Control Cable
- i. Factory color coded in accordance with Table 5-1, Part 5 of ICEA Pub. S-61-402 (NEMA WC 5)
- j. Fire rated cable shall have fire retardant insulation, halogen free and low smoke when exposed to fire. Fire resistance rating shall be three (3) hours.

7. CONNECTORS

- a. 5.5mm²

Hand-Applied:

- 1. Coiled tapered, spring wound devices with a conducting corrosion-resistant coating over the spring steel and a plastic cover and skirt providing full insulation for splice and wired ends. Screw connector on by hand.

Tool-Applied:

1. Steel cap, with conduction and corrosion resistant metallic plating, open at both ends, fitted around the twisted ends of the wire and compressed or crimped by means of a special die designed for the purpose. Specifically fitted plastic or rubber insulating cover wrap over each connector.
2. Hydraulic tool of same manufacturer as lug which shall emboss on the connector the proper die number inspection.
3. Anti-oxide inhibitor for aluminum terminations.

8. ELECTRICAL TAPE

Specifically designed for use as insulating tape

PANELBOARDS

1. GENERAL

Description

Provide panel boards in accordance with the Contract Documents.

2. WORK INCLUDED

- a. Panel Boards
- b. Circuit Breakers

3. SUBMITTALS

- a. Shop Drawings

Submit complete shop drawings showing main devices and lug sizes; branch circuit device rating and arrangement; busbar rating and ampacities; dimensions and construction; gutter and panel box dimensions; nameplate and legend; protective coating; and all other pertinent details of panel, enclosure, cover, and method of securing cover and lock.

- b. Product Data

Submit manufacturer's catalog data for all circuit breakers.

4. QUALITY ASSURANCE

Except as modified by governing codes and by the Contract Documents, comply with the latest applicable provisions and recommendations of the following:

- a. Panel Board

1. U. L. Standard #50 and #67
2. Federal Standard W-C-375a Amendment No. 4 and W-C 375b
3. NEMA Standard PB-1-1971
4. Philippine Electrical Code

b. Circuit Breakers:

1. U. L. Standard #489
2. Federal Standard W-C-375a Amendment No. 4 and W-C 375b
3. NEMA Standard AB-1-1969
4. IEC 60868 and IEC 947-2

5. PRODUCTS

a. Panel Board

1. Provide panel boards consisting of complete assembly of main protective device, branch circuit switching, neutral and grounding busbar mounted inside a dead front enclosure. Provide the number and size of these branch circuit devices as indicated on the Drawings or in the load schedules. Locations of circuit breakers shall be as indicated in the load schedules.

b. Provide the following modifications and additional equipment as shown on the Drawings:

1. Main circuit breakers
2. Integral remote control switches
3. Feed-through lugs and/or bus
4. Feed-through cabling arrangement
5. Double lugs for multiple cables or for future provisions
6. Ground fault interrupting circuit breakers
7. Oversized gutters
8. Door-in-door construction for power panels

c. Interiors

1. Rigid removable assembly of copper bus bars and interchangeable bolted branch circuit devices.
2. Busbars drilled to permit branch circuit devices of all sizes and number of poles to be Inter-changeable and installed in any spare space of sufficient size, without disturbing adjacent units; without removing main bus or branch circuit connectors and without machining drilling, or tapping in the field.
3. Arrange bus in sequence or distributed phasing so that multi-pole circuit breaker can replace any group of single circuit breakers of the same size.
4. Provide 100% neutral and 50% ground bus in each panel board.

d. Enclosure

1. Code gauge steel box, galvanized material with rust warranty.
2. Powder coated.
3. Machine formed concealed type hinges for front doors.
4. Edges shall be bended for sturdiness.
5. Provide a bolt-on ground connector to inside of enclosure.
6. Flushed mounted in finished areas and as indicated in the Drawings.
7. Surface mounted within electrical and other utility rooms.

e. Front

1. Swing doors must be provided on all lighting and power panels.
2. Heavy code gauge steel as required to maintain panel face flat.
3. Hold front closed with trim clamps.
4. Front door frame shall be hinged. Circuit breaker section door shall be hinged. Dead front cover shall be swing type.
5. Provide directly for total number of poles.
6. Provide approved lock. All panels keyed alike. Furnish four (4) sets of master keys to the Employer.
7. Doors over 1200mm in height shall have auxiliary fasteners at top and bottom of door in addition to lock and catch.
8. Factory finished in medium gray enamel or two coats of air-drying lacquer over a rust inhibiting primer.

f. Terminal Lugs

1. Bolted type, labeled for copper conductors.
2. Locate main lugs at top or bottom, depending where main feeder enters.

g. Electrical Ratings

1. Panel boards shall be rated 400volts or as indicated, 3-phase, and 3-wire, with full neutral and ground with ampacities as indicated on the drawings.
2. Panel boards shall be fully rated for the short circuit current indicated on the Drawings.
3. Provide locking devices for designated breakers.

h. Circuit Breaker Devices

1. Plastic molded case. Complete sealed enclosure. Toggle type operating handle. Trip ampere rating and ON/OFF indication clearly visible.
2. Thermal-magnetic trip-free, trip-indicating, quick-make/quick-break, with inverse time delay characteristics. Single-handle and common tripping for multi-pole breakers.
3. Silver alloy contacts with auxiliary arc-quenching devices.
4. Panel board must be of the type which will accept the field installation of shunt trip devices of 60 amperes or less on the branch devices.
5. Interrupting capacities shall be as indicated on the Drawings. As a minimum, 220volt devices shall be not less than 10kAIC, and 18kAIC for distribution panels.
6. Locate next to each breaker or space unit an individual number or labeling.
7. Circuit breakers serving kitchen equipment beneath cooking hoods shall include a shunt trip coil.

i. Ground Fault Interrupters

1. Ground fault interrupter branch circuit breakers shall be as indicated on the Drawings. Circuit breakers shall be circuit interrupting which will operate manually for normal switching functions and automatically under overload, short circuit, and 0.005 amp line-to-ground fault conditions. The operating mechanism shall be entirely trip-free so that contact cannot be held close against an abnormal overcurrent, short circuit, or ground fault condition. The device shall be bolt-on type with insulated case construction and shall be interchangeable with standard single pole breakers utilized in the panel board.

j. Execution

Not used

SOLAR STREET LIGHTS

1. GENERAL

Description

Provide Solar Integrated Street Lights and Lighting Fixtures including accessories in accordance with the Contract Documents.

2. WORK INCLUDED

- a. Solar integrated 80W LED, 8500lm 12.8V Aluminum
- b. 2. 70W, 6,650W daylight 24 LED Street Lights
- c. 3. 100W Solar Panels Monocrystalline Sun Power USA

3. SUBMITTALS

a. Shop Drawings

Submit complete shop drawings showing main devices showing the specifications and rating of the electrical components.

b. Product Data

Submit manufacturer's catalog data for all circuit breakers.

4. QUALITY ASSURANCE

Except as modified by governing codes and by the Contract Documents, comply with the latest applicable provisions.

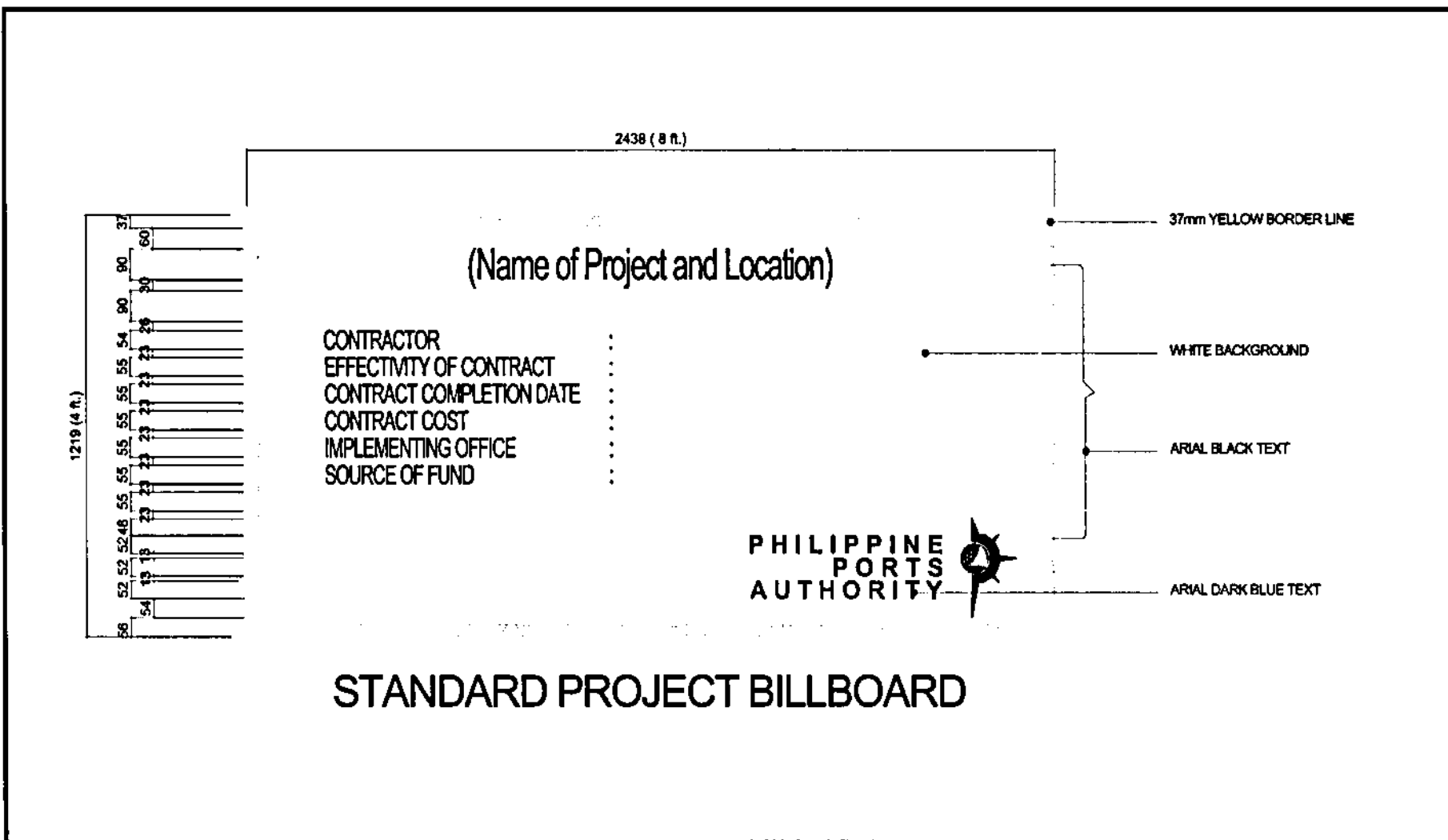
ITEM 09 : PROJECT BILLBOARD**SPECIFICATION**

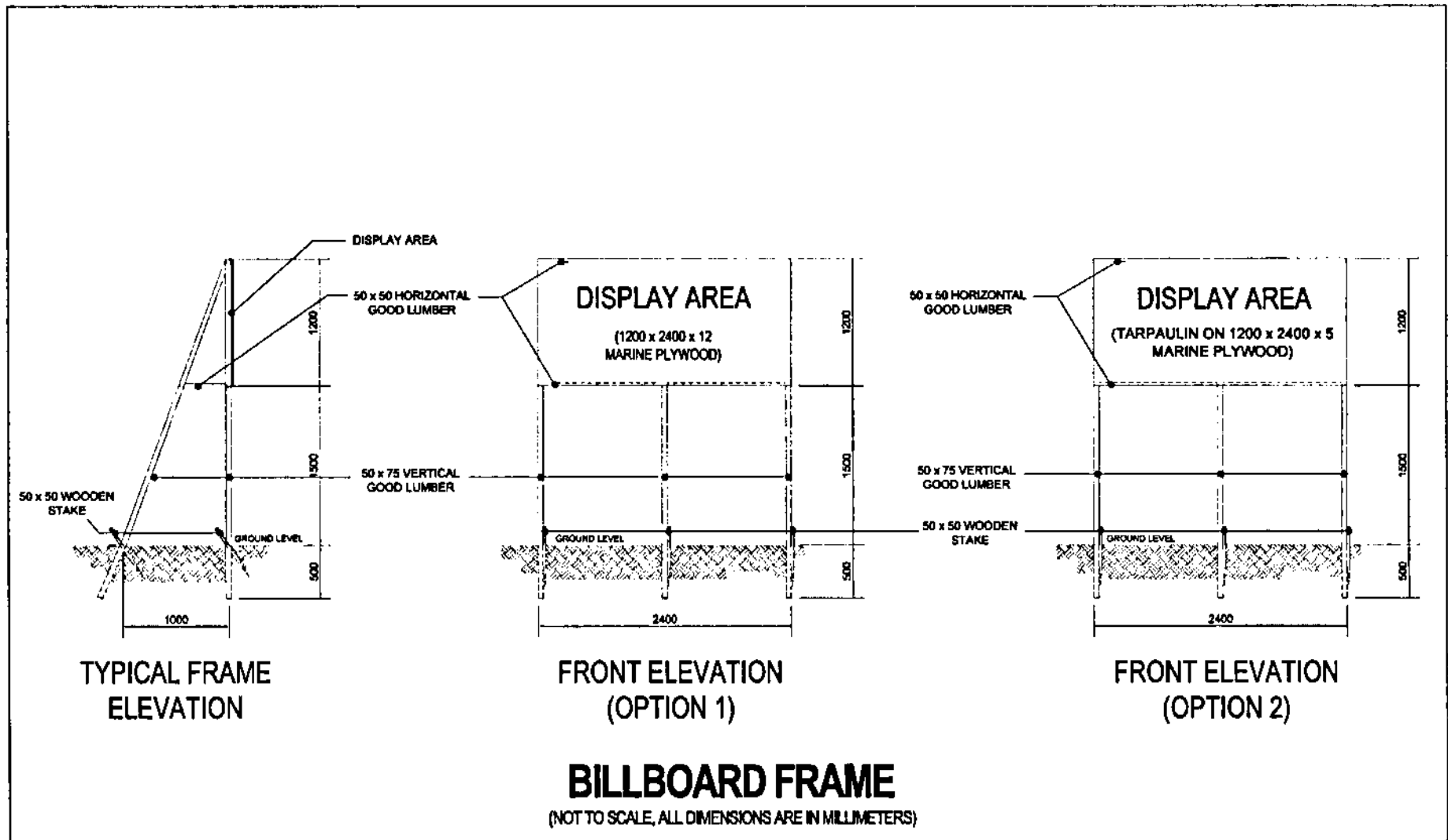
The Project Billboard shall be installed at location(s) designated by the Engineer.

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 10 : 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.

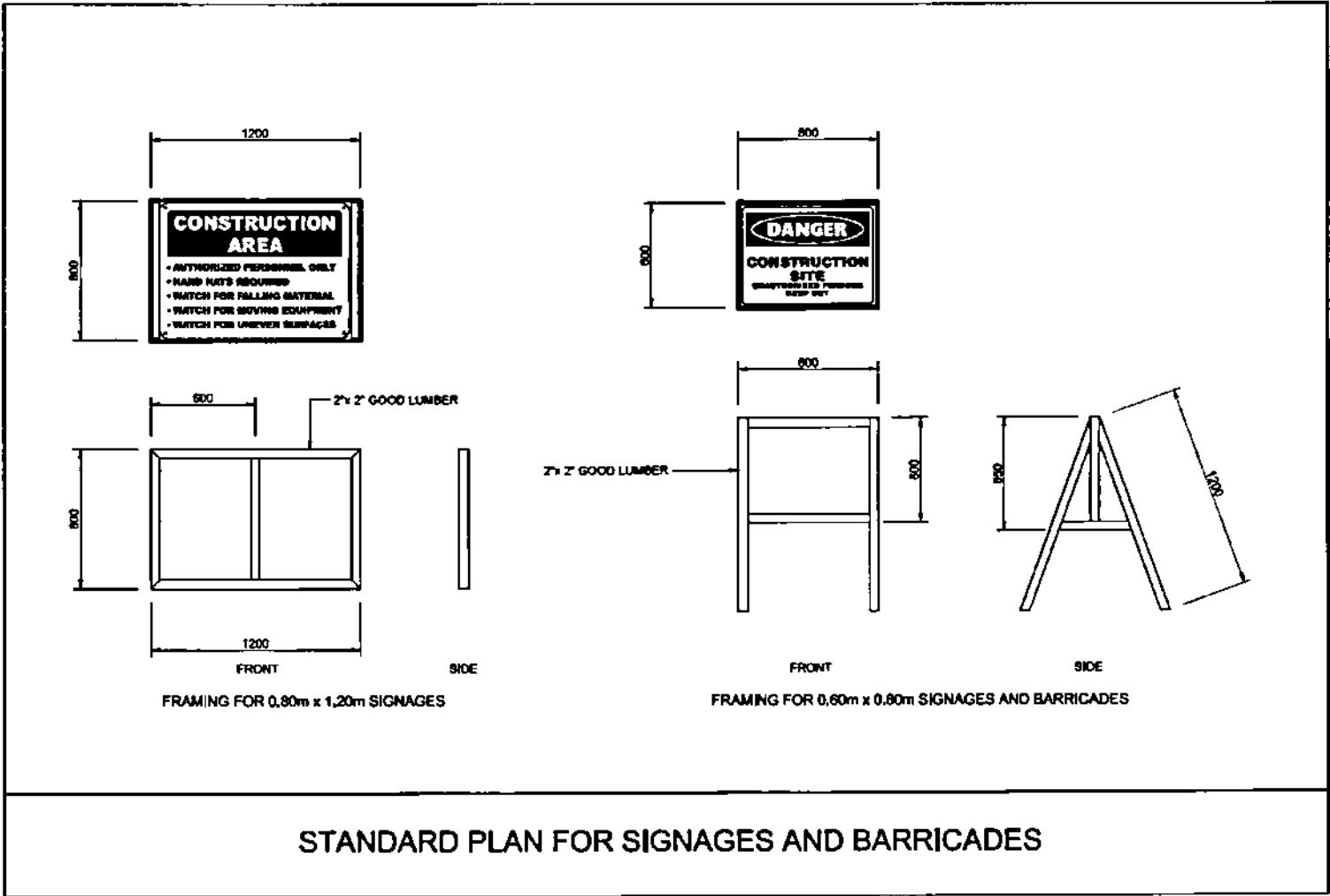
SPECIFICATION

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.



SECTION VII

***DRAWINGS
(APPROVED PLANS)***

SECTION VII

DRAWINGS AND APPROVED PLANS

(SEE ISSUED APPROVED PLANS)

LIST OF DRAWINGS:

- 1 of 10 - Development Plan, Location Map
- 2 of 10 - General Plan, Section A-A, detail of Deadman Block, Detail of Pile.Cap / Wave Deflector
- 3 of 10 - Ground Floor Plan of Passenger Terminal and Guard House / Generator Set House
- 4 of 10 - Guard House Elevation Plan
- 5 of 10 - Schedule of Doors and Windows
- 6 of 10 - Electrical Layout
- 7 of 10 - Terminal Management Office Roof Plan
- 8 of 10 - Entrance Gate Elevation and Detail
- 9 of 10 - Steel Fence Location Plan and Steel Fence along Causeway Detail
- 10 of 10 - G.I. Pipe Post Detail and Welded Wire Mesh Fence Detail

SECTION VIII

BILL OF QUANTITIES
and
ATTACHMENTS

BID SUMMARY

**RESTORATION OF ROCKBULKHEAD, PASSENGER TERMINAL BUILDING, TMO BUILDING, AND PORT LIGHTING
SYSTEM DUE TO TYPHOON KARDING
PORT OF DINGALAN, AURORA**



NO. (1)	DESCRIPTION OF WORK (2)	AMOUNT (Pesos) (3)
BILL NO. 1	GENERAL EXPENSES	
BILL NO. 2	REMOVAL AND DISPOSAL WORKS	
BILL NO. 3	RESTORATION OF MAIN GATE, MOVABLE FENCE AND SLOPE PROTECTION INCLUDING ROCKBULKHEAD	
BILL NO. 4	RESTORATION OF TERMINAL MANAGEMENT OFFICE BUILDING	
BILL NO. 5	RESTORATION OF PASSENGER TERMINAL BUILDING AND GUARD HOUSE	
BILL NO. 6	INSTALLATION OF NEW PORT LIGHTING AND ELECTRICAL SYSTEM	
BILL NO. 7	PAINTING WORKS	
BID SUMMARY		-

Name of Firm

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

Date

BILL OF QUANTITIES

**RESTORATION OF ROCKBULKHEAD, PASSENGER TERMINAL BUILDING, TMO BUILDING, AND PORT LIGHTING
SYSTEM DUE TO TYPHOON KARDING
PORT OF DINGALAN, AURORA**



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 and Demobilization Cost / Clean-up	lot	1.00		
1.02	Provision of Safety and Health Program	lot	1.00		
TOTAL FOR BILL NO. 1					
BILL NO. 2	REMOVAL AND DISPOSAL WORKS				
2.01	Removal and Disposal of Debris at Port of Dingalan	sqm	1,392.00		
2.02	Excavation, Demolition, Removal and Disposal Works	lot	1.00		
TOTAL FOR BILL NO. 2					
BILL NO. 3	RESTORATION OF MAIN GATE, MOVABLE FENCE AND SLOPE PROTECTION INCLUDING ROCKBULKHEAD				
3.01	Supply and place 50-100kg core rocks	cum	90.00		
3.02	Supply and place 1,000-2,000kg armour rocks	cum	158.87		
3.03	Supply and place 3,500 psi concrete for pile cap/wave deflector, armour cap, strap beam, deadman block and gate column	cum	93.90		
3.04	Supply and install steel reinforcement for pile cap/wave deflector, armour cap, strap beam, deadman blocks and gate column	kg	5,799.00		
3.05	Supply, fabricate and install stainless steel gate at Main Entrance Gate including accessories	kg	778.00		
3.06	Supply, fabricate and install movable steel fence along the deflector wall	ln.m	54.80		
TOTAL FOR BILL NO. 3					
BILL NO. 4	RESTORATION OF TERMINAL MANAGEMENT OFFICE BUILDING				
4.01	Supply and install Rib-Type roofs and ridge roll including removal works	ln.m	12.00		
4.02	Supply and install ceiling at the TMO Building	sqm	56.22		
TOTAL FOR BILL NO. 4					

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

BILL OF QUANTITIES

**RESTORATION OF ROCKBULKHEAD, PASSENGER TERMINAL BUILDING, TMO BUILDING, AND PORT LIGHTING
SYSTEM DUE TO TYPHOON KARDING
PORT OF DINGALAN, AURORA**



NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
BILL NO. 5.01	5 RESTORATION OF PASSENGER TERMINAL BUILDING AND GUARD HOUSE Replacement of damaged doors, windows including accessories of the Passenger Terminal Building and Guardhouse	lot	1.00		
TOTAL FOR BILL NO. 5					
BILL NO. 6.01	6 INSTALLATION OF NEW PORT LIGHTING AND ELECTRICAL SYSTEM Supply and Install Solar Integrated 80W LED, 8500lm, daylight, 12.8V Aluminum Street Light SSL Pro	unit	16.00		
6.02	Supply and install 1-70W, 6,650lm, daylight 24V LED Street Lights, 2x100W Solar Panels	unit	4.00		
6.03	Supply and install 1-70W, 5,500lm, daylight 12V LED Street Lights	set	3.00		
6.04	Replacement of Damaged Wires (3-30mm ² THHN Cu Wire) and rusted panel board/circuit breakers of TMO Building	lot	1.00		
6.05	Replacement of Damaged Wires (3-80mm ² THHN Cu + 1-30mm ² THHN Cu) Including accessories from PTB Panel Board to Genset Room	ln.m	100.00		
6.06	Replacement of Damaged Wires (3-100mm ² THHN Cu + 1-30mm ² THHN Cu) Including accessories from Genset Room to KWHR Pull Box at main Gate	ln.m	35.00		
TOTAL FOR BILL NO. 6					
BILL NO. 7.01	7 PAINTING WORKS Supply and apply various paint materials on concrete surfaces for repainting of concrete fence and curb	sqm	2,171.16		
7.02	Supply and apply various paint materials on steel surfaces for painting of movable fence	sqm	98.65		
7.03	Supply and apply various paint materials for repainting of ceiling at the TMO Building (2 coats)	sqm	67.00		
TOTAL FOR BILL NO. 7					

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

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 and Demobilization Cost / Clean-up

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

Item 1.02 Provide Construction Safety & 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

REMOVAL AND DISPOSAL WORKS

Item 2.01 Removal and Disposal of debris at Port of Dingalan

The quantity to be paid for shall be the actual area in square meter of debris at Paved Area and Causeway in Port of Dingalan, removed 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 2.02 Excavation, Demolition, Removal and Disposal Works

The quantity to be paid for shall be the actual lot of existing concrete structures and soil, removed 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.

BILL NO. 3

**RESTORATION OF MAIN GATE, MOVABLE FENCE AND SLOPE PROTECTION
INCLUDING ROCKBULKHEAD**

Item 3.01 Supply and place 50-100kg. core rocks

The quantity to be paid for shall be the actual volume in cubic meter of 50-100 kg. core rocks, supplied and set-in-place in accordance with the plans and specifications and accepted by the Engineer. Hydrographic/Topographic Surveys before and after placing of core rocks shall be made to determine the actual elevations along the cross sections and the actual quantities for payment. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.02 Supply and place 1,000-2,000kg. armour rocks

The quantity to be paid for shall be the actual volume in cubic meter of 1,000-2,000kg. armour rocks, 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 core rocks shall be made to determine the actual elevations along the cross sections and the actual quantities for payment. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.03 Supply & place 3,500 psi. concrete for pile cap/wave deflector, armour cap, strap beam, deadman block and gate column

The quantity to be paid for shall be the actual volume in cubic meter of 3,500 psi. concrete to be supplied and set-in-place for pile cap/wave deflector, armour cap, strap beam, deadman block and gate column 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 Supply and install steel reinforcements for pile cap/wave deflector, armour cap, strap beam, deadman block and gate column

The quantity to be paid for shall be the actual weight in kilogram of reinforcing steel bars to be supplied and installed for pile cap/wave deflector, armour cap, strap beam, deadman block and gate column in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.05 Supply, fabricate and install stainless steel gate at Main Entrance Gate including accessories

The quantity to be paid for shall be the actual weight in kilogram of various steel materials for stainless steel gate 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 3.06 Supply, fabricate and install movable steel fence along the deflector wall

The quantity to be paid for shall be the actual length in linear meters of movable steel fence 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.

BILL NO. 4

RESTORATION OF TERMINAL MANAGEMENT OFFICE BUILDING

Item 4.01 Supply and Install Rib-type roofs and ridge roll incl. removal works

The quantity to be paid for shall be the actual length in linear meter of rib-type roofing and ridge roll, 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 4.02 Supply and Install Ceiling at TMO Building

The quantity to be paid for shall be the actual area in square meter of ceiling at TMO Building, 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. 5

RESTORATION OF PASSENGER TERMINAL BUILDING AND GUARD HOUSE

Item 5.01 Replacement of damaged doors, windows, including accessories of the Passenger Terminal Building and Guard House

The quantity to be paid for shall be the actual lot of various materials for the replacement of damaged doors and windows including accessories of passenger terminal building and guard house 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. 6

INSTALLATION OF NEW PORT LIGHTING AND ELECTRICAL SYSTEM

Item 6.01 Supply and Install Solar Integrated 80W LED, 8500lm, daylight, 12.8V Aluminum Steel Light SSL-Pro

The quantity to be paid for shall be the actual unit of solar integrated 80W LED, 8500lm, daylight, 12.8V aluminum street light, 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 6.02 Supply and Install 1-70W, 6,650lm, daylight 24V LED Street Lights, 2x100W Solar Panels, 2x120AH, 12V Solar Battery, Solar charger controller including wires, box and bracket

The quantity to be paid for shall be the actual unit of 70W, 6,650lm, daylight 24V LED street light together with two (2) units of 100W solar panels, two (2) units 120AH, 12V solar battery and solar charger controller including wires, box and bracket for each street

light, 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 6.03 Supply and Install 1-70W, 5,500lm, daylight 12V LED Street Lights

The quantity to be paid for shall be the actual unit of 70W, 5,500lm, daylight 12V LED street lights, 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 6.04 Replacement of damaged wires (3-20mm² THHN Cu wire) and rusted panel board/circuit breakers of TMO Building

The quantity to be paid for shall be the actual lot of various materials for replacement of damaged wires and panel board/circuit breakers in TMO Building 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 6.05 Replacement of damaged wires (3-80mm² THHN Cu + 1-30mm² THHN Cu) including accessories from PTB Panel Board to Genset Room

The quantity to be paid for shall be the actual length in linear meter of 3-80mm² THHN Cu wire and 1-30mm² THHN Cu wire including accessories for replacement of damaged wires from PTB panel board to Genset Room 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 6.06 Replacement of damaged wires (3-100mm² THHN Cu + 1-30mm² THHN Cu) including accessories from Genset Room to KWHR Pull Box at Main Gate

The quantity to be paid for shall be the actual length in linear meter of 3-100mm² THHN Cu wire and 1-30mm² THHN Cu wire including accessories for replacement of damaged wires from Genset Room to KWHR Pull Box at Main Gate 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. 7

PAINTING WORKS

Item 7.01 Supply and apply various paint materials on concrete surfaces for repainting of concrete fence and curb

The quantity to be paid for shall be the actual area in square meter of various paint materials supplied and spread on concrete surfaces 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 7.02 Supply and apply various paint materials on steel surfaces for painting of movable steel fence

The quantity to be paid for shall be the actual area in square meter of various paint materials supplied and spread on steel surfaces 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 7.03 Supply and apply various paint materials for repainting of ceiling at TMO Building (2 coats)

The quantity to be paid for shall be the actual area in square meter of various paint materials supplied and spread on steel surfaces 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.

MINIMUM MAJOR EQUIPMENT REQUIREMENTS

1	unit/s	Backhoe, Hydraulic, Crawler Mounted (0.50 cu.m., 95hp, minimum), owned
1	unit/s	Concrete Mixer (1 bagger, minimum), owned
1	unit/s	Concrete Vibrator, Diesel (5 hp, minimum), owned
1	unit/s	Dump Truck (11.47 cu.m., minimum), owned
2	unit/s	Bar Bender (electric, 25mm dia min.), owned
2	unit/s	Bar Cutter (electric, 25mm dia min.), owned
1	unit/s	Jackhammer, owned
1	unit/s	Oxy/Acetylene cutting outfit, owned
2	unit/s	Welding Machine (400 amp., minimum), owned
2	unit/s	Electric Drill
1	unit/s	Genset (5 kVA), owned

CONSTRUCTION SAFETY AND HEALTH REQUIREMENT

The Contractor shall implement the construction safety and health program in accordance with the applicable provisions of the Occupational Safety and Health Standards (OSHS) of the Department of Labor and Employment (DOLE).

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.	Safety Aide

EQUIPMENT / MATERIALS

Personnel Protective Equipment

20	pcs.	Hard Hats
20	pairs	Gloves (rubberized)
20	pcs.	Safety Glasses/Goggles (clear)
20	pairs	Safety Shoes

Safety Devices

1	lot	Barricades
1	lot	Warning signs
1	unit/s	Fire extinguisher (10kg)

Medical and First Aid System	-	One Hundred Forty Six (146) calendar days
Temporary shelter for workers	-	1 lot

NOTE:

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

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

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

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Materials/Items of Work	Required Tests	Minimum Incremental Frequency of Tests
4 Coarse Aggregates	Same Test as for SC (C)	Same frequency as SC (C)
5 Fine Aggregates	Same Test as for SC (B)	Same frequency as SC (B)
B Steel Pipe Piles	Fabrication Report, Mill Certificate and Quality Test for Chemical and Mechanical properties	One per fabrication
1 Steel	Chemical Composition (refer below) <ul style="list-style-type: none"> Under 14" (355 60mm) Outside Diameter 14" to 36" (355 6 to 914mm) Outside Dia Over 36" (914mm) Outside Diameter Mechanical/Tensile	2 from 200 pipe or fraction thereof 2 from 100 pipe or fraction thereof 2 from 3000ft (914m) or fraction thereof One (1) tension test shall be made on one length or fraction thereof of each size, or one piece of skelp representing each lot of 200 lengths or fraction thereof of each size
2 Polyurethane Coating	Mill Certificate and Quality Test	One per fabrication
3 Concrete	Same test as for SC (F)	Same frequency as SC (F)
4 Fine Aggregate	Same test as for SC (B)	Same frequency as SC (B)
5 Coarse Aggregate	Same test as for SC (C)	Same frequency as SC (C)
6 Steel Bars	Same Test as SC (E)	Same frequency as SC (E)
7 Water	Same Test as SC (D)	Same frequency as SC (D)
Rubber Dock Fenders (RDF)	Physical Test Performance Test for Energy Absorption and Reaction Force	All units All units
Accessories Washer and Frong Bolt, Anchor Bolt	Physical Test Quality Test for Chemical Composition and Mechanical Properties	All units One per fabrication

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

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

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

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

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

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

/ *MAC*

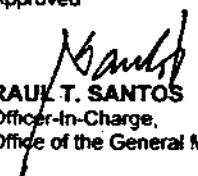
PPA MEMORANDUM CIRCULAR
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Attachment

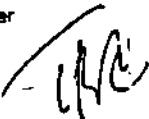
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Materials/Items of Work	Required Tests	Minimum Incremental Frequency of Tests
Fixtures	Inspection and Evaluation Report from the Engineer Testing and Commissioning	One per item
Pipe Culverts	Compression Strength Inspection and Evaluation Report from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

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

Approved


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



SECTION IX

CHECKLIST OF TECHNICAL AND FINANCIAL DOCUMENTS

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class "A" Documents

Legal Documents

- ☐ (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages)

Technical Documents

- ☐ (b) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid; **and**
- ☐ (c) Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided under the rules; **and**
- ☐ (d) Special PCAB License in case of Joint Ventures; **and** registration for the type and cost of the contract to be bid; **and**
- ☐ (e) Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission; **or**
- ☐ (f) Original copy of Notarized Bid Securing Declaration; **and** Project Requirements, which shall include the following:
- ☐ a. Organizational chart for the contract to be bid;
- ☐ b. List of contractor's key personnel (e.g., Project Manager, Project Engineers, Materials Engineers, and Foremen), to be assigned to the contract to be bid, with their complete qualification and experience data;
- ☐ c. List of contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership or certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be; **and**
- ☐ (g) Original duly signed Omnibus Sworn Statement (OSS); **and** if applicable, Original Notarized Secretary's Certificate in case of a corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder.

Financial Documents

- ☐ (h) The prospective bidder's computation of Net Financial Contracting Capacity (NFCC).

Class "B" Documents

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

II. FINANCIAL COMPONENT ENVELOPE

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

Other documentary requirements under RA No. 9184

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

SECTION X
BIDDING FORM

Bid Form for the Procurement of Infrastructure Projects

[shall be submitted with the Bid]

BID FORM

Date : _____

Project Identification No. : NRP-BNA-01-23

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

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

- a. We have no reservation to the PBDs, including the Supplemental or Bid Bulletins, for the Procurement Project: **Restoration of Rockbulkhead, Passenger Terminal Building, TMO Building, and Port Lighting System due to Typhoon Karding at Port of Dingalan, Aurora;**
- b. We offer to execute the Works for this Contract in accordance with the PBDs;
- c. The total price of our Bid in words and figures, excluding any discounts offered below is: _____;
- d. The discounts offered and the methodology for their application are: _____;
- e. The total bid price includes the cost of all taxes, such as, but not limited to: *[specify the applicable taxes, e.g. (i) value added tax (VAT), (ii) income tax, (iii) local taxes, and (iv) other fiscal levies and duties]*, which are itemized herein and reflected in the detailed estimates,
- f. Our Bid shall be valid within the period stated in the PBDs, and it shall remain binding upon us at any time before the expiration of that period;
- g. If our Bid is accepted, we commit to obtain a Performance Security in the amount of _____ percent of the Contract Price for the due performance of the Contract, or a Performance Securing Declaration in lieu of the the allowable forms of Performance Security, subject to the terms and conditions of issued GPPB guidelines¹ for this purpose;
- h. We are not participating, as Bidders, in more than one Bid in this bidding process, other than alternative offers in accordance with the Bidding Documents;
- i. We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed; and
- j. We understand that you are not bound to accept the Lowest Calculated Bid or any other Bid that you may receive.
- k. We likewise certify/confirm that the undersigned, is the duly authorized representative of

¹ currently based on GPPB Resolution No. 09-2020

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 **Restoration of Rockbulkhead, Passenger Terminal Building, TMO Building, and Port Lighting System due to Typhoon Karding at Port of Dingalan, Aurora.**

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

Name: _____

Legal Capacity: _____

Signature: _____

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

Date: _____

STATEMENT OF THE BIDDER'S ALL ONGOING GOVERNMENT AND PRIVATE CONTRACTS, INCLUDING CONTRACTS AWARDED BUT NOT YET STARTED

I hereby declare that all ongoing contracts, including awarded contracts yet to be started coinciding with the contract to be bid are listed below:

Name of outstanding Contracts 1]	Owner's Name and Address	Scope of Work 2]	Contractor's Role and Percentage of Participation 3]	Total Contract Amount or Value 4]	Date of Contract and NOA 5]	Value of Outstanding Works 6]	Accomplishment (in percentage, %) 7]		Contract Duration 8]	
							Planned	Actual	Start of Project	Estimated Completion Date
A) Government Contracts i. On-going ii. Awarded but not yet started										
B) Private Contracts i. On-going ii. Awarded but not yet started										

NOTE:

- 1] As appearing in the contract executed by the parties.
- 2] With special reference to the Scope of Works of the Project as described/enumerated in the Contract.
- 3] Indicate the percentage of participation and whether as Sole Contractor, Sub-Contractor or Member in a Joint Venture / Consortium.
- 4] Indicate the FOREX used if Contract Value is expressed in a currency other than the Philippine Peso.
- 5] As appearing in the Contract and Notice of Award (NOA).
- 6] Amount or 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.
- 7] Percentage of Accomplishment as of the preceding month which should not be earlier than two (2) months from the date of bid submission.
- 8] As appearing in the Notice to Proceed and Contract.

This Statement shall be supported by:

- a) Notice of Award
- b) Notice to Proceed and Contract

Name of Firm

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

Date

Revised: September 2021

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

Name of the completed Contract 1]	Owner's Name and Address	Scope of Work 2]	Contractor's Role and Percentage of Participation 3]	Total Contract Value At 4]			Date of Award 5]	Contract Duration 6]	
				Award	Completion	Escalated Value to Present Prices		Start	Completed

NOTE :

- 1] As appearing in the contract executed by the parties.
 2] With special reference to the Scope of Works of the Project as described/enumerated in the Contract.
 3] Indicate the percentage of participation and whether as Sole Contractor, Sub-Contractor or Member in a Joint Venture / Consortium.
 4] Indicate the FOREX used if Contract Value is expressed in a currency other than the Philippine Peso. Attached the computation for the escalated contract value.
 5] As appearing in the Notice of Award.
 6] As appearing in the Notice to proceed and Certificate of Completion.

- A. The bidder must have an experience of having completed a SLCC that is similar to the contract to be bid equivalent to at least fifty percent (50%) of the ABC, adjusted if necessary, by the Bidder to current prices using the PSA consumer price indices. A contract is considered to be "similar" to the contract to be bid if it has the same Major Categories of Work as stated in the Bid Data Sheet (BDS).
- B. This Statement shall be supported by:
- Notice of Award, Notice to Proceed and Contract.
 - Project Owner's Certificate of Final Acceptance issued by the owner and/ or Constructors Performance Evaluation System (CPES) Final Rating, which must be at least Satisfactory. The said Certificate of Acceptance shall contain the following: 1) Name of project owner that issued the certificate, 2) Name of Contractor/ Constructor, 3) Name of Contract, and 4) Contract Duration.
 - Recapitulation or Final Bill of Quantities.

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

Revised: September 2021

**STATEMENT OF THE BIDDER'S EXPERIENCE ON MAJOR CATEGORIES OF WORK OF THE SLCC INCLUDING OTHER COMPLETED CONTRACTS
SIMILAR TO THE CONTRACT TO BE BID**

Major Categories of Work 1]	Unit of Measure 1]	Quantity 1]	SLCC similar to the contract to be bid 2]	Other completed contracts similar to the contract to be bid 2]			Unit of Measure 2]	Quantity 2]
			Name of the contract	Name of the contract	Name of the contract	Name of the contract		
1. Construction of Building	sq.m.	166.00						
2. Reinforced Concrete Works	sq.m.	47.00						
3. Rockworks (50-2,000kg/pc)	cu.m.	124						

NOTE:

1] As stated in the Bid Data Sheet.

2] As appearing in the Recapitulation and/ or Final Bill of Quantities.

This statement shall be supported by:

a. Notice of Award, Notice to Proceed and Contract.

b. Project Owner's Certificate of Final Acceptance issued by the owner and/ or Constructors Performance Evaluation System (CPES) Final Rating, of at least satisfactory.

The said Certificate of Acceptance shall contain the following: 1) Name of project owner that issued the certificate, 2) Name of Contractor/Constructor, 3) Name of Contract, and 4) Contract Duration.

c. Recapitulation and/ or Final Bill of Quantities.

Name of Firm

Name of Bidder/Authorized Representative
Signatory's Legal Capacity

Date

Revised: September 2021

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.

STATEMENT OF THE BIDDER'S KEY PERSONNEL PLEDGED FOR THE CONTRACT TO BE BID

I hereby declare that the following key personnel are qualified and available for the duration of the contract to be bid:

Position of Key Personnel 1]	Name	No. of Key Personnel	Similar Experience in the Position (Years) 2]	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 I					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] As stated in the Bid Data Sheet

2] The number of years of experience of the key personnel shall be as indicated in the qualification and experience data or curriculum vitae.

Minimum qualification requirements: The key personnel must have a work experience that is similar in nature and complexity to the contract to be bid.

Project Manager - Five (5) years

Materials Engineer – One (1) year

Project Engineer - Three (3) years

Materials Engineer I – for projects costing up to 100M

Foreman - Five (5) years

Materials Engineer I – for projects costing more than 100M

Construction Safety and Health Officer – One (1) year

Name of Firm

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

Date

Revised: September 2021

STATEMENT OF THE BIDDER'S EQUIPMENT PLEDGED FOR THE CONTRACT TO BE BID

I hereby declare that the following equipment are in good operating condition and available for the duration of the contract to be bid:

DESCRIPTION (Type, Model, Make)	No. of Unit(s)	Capacity/ Output 1]	Owned, Leased, and/or under purchased agreement 2]	Proof of Ownership/ Leased/ Under Purchase Agreement (Mark as Annex "A.....Z") 3]	OTHER INFORMATION (As Applicable)				
					Manufacturer	Engine Serial No.	Chassis No./ Name of Vessel	Location	Status

NOTE:

- 1] The unit of capacity of the pledged equipment shall be as indicated in the Proof of Ownership, 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). If the capacity of the pledged equipment is not indicated in the Proof of Ownership/Leased Contract/Purchased Agreement, submit other proof of capacity such as specifications, brochures or other verifiable printouts indicating the model name, model number and other details of the equipment.
- 2] Indicate if the pledged equipment are owned, leased or under purchase agreement.
- 3] If the pledged equipment is owned, it should be in the name of the bidder. Submit proof of ownership, i.e. deed of sale, sales invoice, official receipt; For owned 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.

If the pledged equipment is leased/under purchased agreement, submit certification of availability of equipment from the equipment lessor/vendor for the duration of the project, and duly Notarized copy of leased contract/purchased agreement.

If the pledged barge/tugboat is leased/under purchase agreement, submit certification of availability of barge/tugboat from the equipment lessor/vendor for the duration of the project, and duly Notarized copy of leased contract/purchased agreement together with a copy of the Marina Certificate of Ownership and valid Cargo Ship Safety Certificate.

The Minimum Major Equipment Requirements are listed in Section 8, Annex 3.

Name of Firm

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

Date

Revised: September 2021

Omnibus Sworn Statement for Sole Proprietorship
[shall be submitted with the Bid]

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

AFFIDAVIT

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

1. I am the sole proprietor or authorized representative of _____ with office address at _____;
2. As the owner and sole proprietor, or authorized representative of _____, I have full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for **Restoration of Rockbulkhead, Passenger Terminal Building, TMO Building, and Port Lighting System at Port of Dingalan, Aurora of the Philippine Ports Authority**, as shown in the attached duly notarized Special Power of Attorney;
3. [Name of Bidder] is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting;
4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;
5. [Name of Bidder] is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;
6. The owner or sole proprietor is not related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;
7. [Name of Bidder] complies with existing labor laws and standards; and
8. [Name of Bidder] is aware of and has undertaken the responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:
 - a. Carefully examining all of the Bidding Documents;
 - b. Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
 - c. Making an estimate of the facilities available and needed for the contract to be bid, if any; and
 - d. Inquiring or securing Supplemental/Bid Bulletin(s) issued for the [Name of the Project].
9. [Name of Bidder] did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.
10. In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an

obligation involving the duty to deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.

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

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

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

Omnibus Sworn Statement for Partnership or Cooperative
[shall be submitted with the Bid]

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

AFFIDAVIT

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

1. I am the duly authorized and designated representative of _____ with office address at _____;
2. I am granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract **Restoration of Rockbulkhead, Passenger Terminal Building, TMO Building, and Port Lighting System at Port of Dingalan, Aurora of the Philippine Ports Authority**, as shown in the attached [state title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate, Board/Partnership Resolution, or Special Power of Attorney, whichever is applicable)];
3. [Name of Bidder] is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting;
4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;
5. [Name of Bidder] is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;
6. None of the officers and members of [Name of Bidder] is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;
7. [Name of Bidder] complies with existing labor laws and standards; and
8. [Name of Bidder] is aware of and has undertaken the responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:
 - a. Carefully examining all of the Bidding Documents;
 - b. Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
 - c. Making an estimate of the facilities available and needed for the contract to be bid, if any; and
 - d. Inquiring or securing Supplemental/Bid Bulletin(s) issued for the [Name of the Project].
9. [Name of Bidder] did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.
10. In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence

through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.

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

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

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

Omnibus Sworn Statement for Corporation or Joint Venture*[shall be submitted with the Bid]*

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

AFFIDAVIT

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

1. I am the duly authorized and designated representative of _____ with office address at _____;
2. I am granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for **Restoration of Rockbulkhead, Passenger Terminal Building, TMO Building, and Port Lighting System at Port of Dingalan, Aurora**, as shown in the attached [state title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate, Board/Partnership Resolution, or Special Power of Attorney, whichever is applicable)];
3. [Name of Bidder] is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting;
4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;
5. [Name of Bidder] is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;
6. None of the officers, directors, and controlling stockholders of [Name of Bidder] is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;
7. [Name of Bidder] complies with existing labor laws and standards; and
8. [Name of Bidder] is aware of and has undertaken the responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:
 - a. Carefully examining all of the Bidding Documents;
 - b. Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
 - c. Making an estimate of the facilities available and needed for the contract to be bid, if any; and
 - d. Inquiring or securing Supplemental/Bid Bulletin(s) issued for the [Name of the Project].
9. [Name of Bidder] did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.
10. In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to deliver certain goods or services, to the prejudice of the public

and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.

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

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

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

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

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

BID SECURING DECLARATION
Project Identification No.: NRP-BNA-01-23

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

I/We, the undersigned, declare that:

1. I/We understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid Securing Declaration.
2. I/We accept that: (a) I/we will be automatically disqualified from bidding for any procurement contract with any procuring entity for a period of two (2) years upon receipt of your Blacklisting Order; and, (b) I/we will pay the applicable fine provided under Section 6 of the Guidelines on the Use of Bid Securing Declaration, within fifteen (15) days from receipt of the written demand by the procuring entity for the commission of acts resulting to the enforcement of the bid securing declaration under Sections 23.1(b), 34.2, 40.1 and 69.1, except 69.1(f), of the IRR of RA No. 9184; without prejudice to other legal action the government may undertake.
3. I/We understand that this Bid Securing Declaration shall cease to be valid on the following circumstances:
 - a. Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
 - b. I am/we are declared ineligible or post-disqualified upon receipt of your notice to such effect, and (i) I/we failed to timely file a request for reconsideration or (ii) I/we filed a waiver to avail of said right; and
 - c. I am/we are declared the bidder with the Lowest Calculated Responsive Bid, and I/we have furnished the performance security and signed the Contract.

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

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

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

CONSTRUCTION METHODOLOGY

Name of Project : Restoration of Rockbulkhead, Passenger Terminal Building, TMO Building, and Port Lighting System due to Typhoon Karding at Port of Dingalan, Aurora

Project Description : Removal and Disposal Works, Restoration Works, Installation of New Port Lighting and Electrical System

Location : Port of Dingalan, Aurora

MINIMUM SCOPE OF CONSTRUCTION METHODOLOGY

A. REMOVAL AND DISPOSAL WORKS

1. Removal and disposal of debris at Port of Dingalan (1,392.00 sq.m.)
2. Excavation, demolition, removal and disposal works

B. RESTORATION OF MAIN GATE, MOVABLE FENCE AND SLOPE PROTECTION INCLUDING ROCKBULKHEAD

1. Supply and place 50-100 kg core rocks (90.00 cu.m.) and 1,000-2,000 kg armour rocks (158.90 cu.m.).
2. Supply and place 3,500 psi concrete (1,151 cu.m.) and reinforcing steel bars (152,560 kg of various sizes) for superstructure, including construction joint (459 l.m.).
3. Supply, fabricate and install stainless steel gate at Main Entrance Gate including accessories (778.80 kg) and movable steel fence along the deflector wall (54.80 l.m.)

C. RESTORATION OF TERMINAL MANAGEMENT OFFICE BUILDING

1. Supply and install Rib-type roofs and ridged roll including removal works (12.00 l.m.)
2. Supply and install Ceiling at the TMO-Building (56.20 sq.m.)

D. RESTORATION OF PASSENGER TERMINAL BUILDING

1. Replacement of damaged doors and windows, including accessories of the Passenger Terminal Building and Guard House

E. INSTALLATION OF NEW PORT LIGHTING AND ELECTRICAL SYSTEM

1. Supply and install solar integrated 80W LED, 8,500lm, daylight, 12.8V aluminum street light SSL-Pro (16 units)
2. Supply and install 1-70W, 6,650lm, daylight 24V LED street lights, 2x100W solar panels, 2x120AH, 12V solar battery, solar charger controller including wires, box and bracket (4 units)
3. Supply and install 1-70W, 5,500lm, daylight 12V LED street lights (3 sets)
4. Replacement of damaged wires (3-30mm² THHN Cu wire) and rusted panel board/circuit breaks of TMO Building
5. Replacement of damaged wires (3-80mm² THHN Cu + 1-30mm² THHN Cu) from PTB Panel Board to Genset Room (100.00 l.m.) and damaged wires (3-100mm² THHN Cu +

1-30mm² THHN Cu) from Genset Room to KWHR Pull Box at Main Gate (35.00 l.m.) including accessories.

F. PAINTING WORKS

1. Supply and apply various paint materials on concrete surfaces for repainting of concrete fence and curb (2,171.20 sq.m.), on steel surfaces for painting of movable steel fence (98.60 sq.m.) and for repainting of ceiling at the TMO Building (2-coats) (67.00 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.

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

Revised: September 2021

MANPOWER SCHEDULE

Name of Project : Restoration of Rockbulkhead, Passenger Terminal Building, TMO Building, and Port Lighting System due to Typhoon Karding at Port of Dingalan, Aurora

Project Description : Removal and Disposal Works, Restoration Works, Installation of New Port Lighting and Electrical System

Location : Port of Dingalan, Aurora

MANPOWER (Minimum)	CONTRACT DURATION 146 Calendar Days)																											
	M O N T H L Y																											
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4
Project Manager																												
Project Engineer																												
Materials Engineer II																												
Construction Safety and Health Officer																												
Foreman																												
Specify other applicable positions, ie.:																												
- Carpenter																												
- Steelman																												
- Mason																												
- Electrician																												
- Rigger																												
- Others																												

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

Revised: September 2021

EQUIPMENT UTILIZATION SCHEDULE

Name of Project	:	<u>Restoration of Rockbulkhead, Passenger Terminal Building, TMO Building, and Port Lighting System due to Typhoon Karding at Port of Dingalan, Aurora</u>
Project Description	:	<u>Removal and Disposal Works, Restoration Works, Installation of New Port Lighting and Electrical System</u>
Location	:	<u>Port of Dingalan, Aurora</u>

[illegible]

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

Revised: September 2021

CASHFLOW BY QUARTER AND PAYMENT SCHEDULE

Name of Project	:	<u>Restoration of Rockbulkhead, Passenger Terminal Building, TMO Building, and Port Lighting System due to Typhoon Karding at Port of Dingalan, Aurora</u>
Project Description	:	<u>Removal and Disposal Works, Restoration Works, Installation of New Port Lighting and Electrical System</u>
Location	:	<u>Port of Dingalan, Aurora</u>

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.

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

Revised: September 2021

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

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

CONTRACT AGREEMENT

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

WHEREAS, the Entity is desirous that the Contractor execute **Restoration of Rockbulkhead, Passenger Terminal Building, TMO Building, and Port Lighting System due to Typhoon Karding at Port of Dingalan, Aurora (NRP-01-23)** (hereinafter called "the Works") and the Entity has accepted the Bid for [contract price in words and figures in specified currency] by the Contractor for the execution and completion of such Works and the remedying of any defects therein.

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents as required by the 2016 revised Implementing Rules and Regulations of Republic Act No. 9184 shall be deemed to form and be read and construed as part of this Agreement, viz.:

- a. Philippine Bidding Documents (PBDs);
 - i. Drawings/Plans;
 - ii. Specifications;
 - iii. Bill of Quantities;
 - iv. General and Special Conditions of Contract;
 - v. Supplemental or Bid Bulletins, if any;
- b. Winning bidder's bid, including the Eligibility requirements, Technical and Financial Proposals, and all other documents or statements submitted;

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

- c. Performance Security;
- d. Notice of Award of Contract and the Bidder's conforme thereto; and

- e. Other contract documents that may be required by existing laws and/or the Procuring Entity concerned in the PBDs. Winning bidder agrees that additional contract documents or information prescribed by the GPPB that are subsequently required for submission after the contract execution, such as the Notice to Proceed, Variation Orders, and Warranty Security, shall likewise form part of the Contract.

3. In consideration for the sum of **[total contract price in words and figures]** or such other sums as may be ascertained, **[Named of the bidder]** agrees to **[state the object of the contract]** in accordance with his/her/its Bid.
4. The **Philippine Ports Authority** agrees to pay the above-mentioned sum in accordance with the terms of the Bidding.

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

JAY DANIEL R. SANTIAGO
General Manager

for:

Philippine Ports Authority

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

for:

Contractor

Acknowledgment

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