

support, bracing or staying of permanent work.

- b. 3. Extent and quality of temporary bracing shall be as necessary against wind and other loads, including seismic loads not less than those for which the permanent structure is designed to resist.

c. Adequacy of Temporary Connections

During erection, temporary connection work shall be securely made by bolting and/or welding for all dead load, wind and erection stresses.

d. Alignment

No permanent bolting or welding shall be done until the alignment of all parts with respect to each other shall be true within the respective tolerances required.

e. Field Welding

- e. 1. Any shop paint or surfaces adjacent to joints where field welding is to be executed shall be wire brushed to remove paint/primer.
- e. 2. Field welding shall conform to the requirements specified herein, except as approved by the Engineer.

f. High Strength Bolts

Final tightening of high strength bolts shall be done by using manufacturer's power operated equipment without any overstress to the threads.

g. Correction of Errors

- g. 1. Corrections of minor misfits by use of drift pins, and reaming, chipping or cutting will be permitted and shall be provided as part of erection work.
- g. 2. Any errors to be corrected or adjusted, preventing proper assembly, shall be immediately reported to the Engineer, and such corrections or adjustments shall be made as necessary and approved by the Engineer.
- g. 3. Cutting or alterations other than as approved will not be permitted.

h. Erection

- h. 1. Erection and installation shall be as per approved shop drawings.
- h. 2. Each structural unit shall be accurately aligned by the use of steel shims, or other approved methods so that no binding in any moving parts or distortion of any members occurs before it is finally fastened in place.
- h. 3. Operations, procedures of erection and bracing shall not cause any damage to works previously placed nor make overstress to any of the building parts or components. Damage caused by such operations shall be repaired as directed by the Engineer at no extra cost to the Employer.

GALVANIZING

PREPARATION

All mild steel parts exposed to weather shall be hot-dipped galvanized after fabrication in accordance with the requirements of ASTM A 123 or ASTM A 153. Prior to galvanizing, the surfaces shall be cleaned of dirt, weld splatter, grease, slag, oil, paint or other deleterious matters. The steel surfaces shall be chemically de-scaled and cleaned with the same abrasive blast or other suitable method as approved by the Engineer.

COATING

The zinc coating shall consist of uniform layers of commercially pure zinc free from abrasions, cracks blisters, chemical spots or other imperfections, and shall adhere firmly to the surface of the steel. The weight of zinc coating per square meter of actual surface shall not be less than 550 grams. Any surface damaged subsequent to galvanizing shall be given two coats of approved zinc rich paints.

PAINTING

This work shall consist of the preparation of the metal surfaces, the application, protection and drying of the painted surfaces, and supplying of all tools, tackle, scaffolding, labor and materials necessary for the entire work. Painting shall be applied in the field or shop as approved by the Engineer.

Unless otherwise specified or approved, all painting work for structural steel shall comply with the requirements of this Section.

SHOP PAINTING

All structural steel shall be given a shop primer after fabrication and cleaning before delivery to the site.

All steel work shall be thoroughly dried and cleaned of all loose mill scale, rust and foreign matters by means of sand blasting or other suitable methods approved by the Engineer before shop painting shall be applied. Each individual piece shall be painted prior to assembly. Portions where field welding or field contact with concrete is required shall not be painted.

Except for galvanized surfaces and items to be encased in concrete, clean ferrous metal surfaces shall be given one coat of Amerlock 400 Epoxy Primer at 100 Microns or approved equal. Additional coat shall be applied to surfaces that will be concealed or inaccessible for finish painting by Amerlock 400, Top Coat at 150 Microns with color or equivalent.

FIELD PAINTING

After erection, the Contractor shall thoroughly prepare and clean the entire surface of all structural steel from all dirt, grease, rust or other foreign matters. The entire surface of all members shall then be field painted.

MATERIALS

1. **Structural Steel Work**
 - a. After surface preparation, steelwork shall be given one coat of approved prefabricating primer.
 - b. Before final assembly of steelwork at the fabricator's shop, two shop coats of

special red lead primer shall be applied to the surface of sections to be in permanent contact, meeting faces and all other concealed surfaces. After final assembly, but before delivery to the project site, the steelwork shall likewise be given two shop coats of special red lead primer.

2. Galvanized Steelwork

All galvanized steelwork shall be treated with zinc chromate two-pack etch primer followed by one coat of non-etch zinc chromate primer.

3. Miscellaneous Metal Work

Unless otherwise specified in other Sections of the Specifications or shown on the drawing, miscellaneous metal works such as ladders, structural steel ladder rungs, etc. shall be given two shop coats of epoxy primer and two coats of epoxy enamel.

CONSTRUCTION METHODS

1. Cleaning of Surfaces

Surfaces of metal to be painted shall be thoroughly cleaned; removing rust, loose mill scale, dirt, oil or grease, and other foreign substances. Unless cleaning is to be done by sand blasting, all weld areas, before cleaning is started, shall be neutralized with a proper chemical, after which they shall be thoroughly rinsed with water.

Three methods of cleaning are provided herein. The particular method to be used shall be as directed by the Engineer.

2. Hand Cleaning

The removal of rust, scale, and dirt shall be done by the use of metal brushes, scrapers, chisels, hammers or other effective means. Oil and grease shall be removed by the use of gasoline or benzene.

Bristle or wood fiber brushes shall be used for removing loose dirt.

3. Sandblasting

All steel shall be cleaned by sandblasting. The sandblasting shall remove all loose mill scale and other substances. Special attention shall be given to cleaning of corners and re-entrant angles. Before painting, sand adhering to the steel in corners and elsewhere shall be removed. The cleaning shall be approved by the Engineer prior to any painting which shall be done as soon as possible before rust forms.

4. Flame Cleaning

All metal, except surface inside boxed members and other surfaces which shall be inaccessible to the flame cleaning operation after the member is assembled, shall be flame cleaned in accordance with the following operations.

- a. Oil, grease, and similar adherent matter shall be removed by washing with a suitable solvent. Excess solvent shall be wiped from the work before processing with

subsequent operations.

- b. The surface to be painted shall be cleaned and dehydrated (free from occluded moisture) by the passage of oxyacetylene flames which have an oxygen to acetylene ratio of at least 1.0. The oxyacetylene flames shall be applied to the surfaces of the steel in such a manner and at such speed that the surfaces are dehydrated; dirt, rust loose scale in the form of blisters or scabs, and similar foreign matters are freed by the rapid, intense heating by the flames. The number arrangement and manipulation of the flames shall be such that all parts of the surfaces to be painted are adequately cleaned and dehydrated.
- c. Promptly after the application of the flames, the surfaces of the steel shall be wire brushed, hand scraped wherever necessary, and then swept and dusted to remove all free materials and foreign particles.
- d. Paint shall be applied promptly after the steel has been cleaned and while the temperature of the steel is still above that of the surrounding atmosphere.

5. Weather Conditions

a. Exterior Coatings

Coatings to surface shall not be applied during foggy or rainy weather, or under the following surface temperature conditions: below 4°C, or over 35°C, unless approved by the Engineer.

b. Interior Coatings

Coatings shall be applied when surfaces to be painted are dry and the following surface temperatures can be maintained: between 18 to 35°C during the application.

6. Application

- a. Paint shall be factory tinted and mixed. All paint shall be field mixed before applying in order to keep the pigments in uniform suspension.
- b. Field Painting

When the erection work is complete, including all bolting and straightening of bent metal, all adhering rust, scale, dirt, grease or other foreign materials shall be removed as specified above.

As soon as the Engineer has examined and approved each steel and metal works structures, all field bolts, all welds, and any surfaces from which the top or first coat of paint has become worn off, or has otherwise come defective shall be cleaned and thoroughly covered with one coat of paint.

Surfaces to be bolted and surfaces which shall be in contact with concrete, shall not

be painted. Surfaces which shall be inaccessible after erection shall be painted with such field coats as are required. When the paint applied for retouching the shop coat has thoroughly dried, and the field cleaning has been satisfactorily completed, such field coats as are required shall be applied. In no case shall a succeeding coat be applied until the previous coat is dry throughout the full thickness of the paint film. All small cracks and cavities which were not sealed in a watertight manner by the first field coat shall be filled with a pasty mixture of red lead and linseed oil before the second coat is applied.

The following provision shall apply to the application of both coats. To secure a maximum coating on edges of plates or shapes, bolt heads and other parts subjected to special wear and attack, the edges shall first be striped with a longitudinal motion and the bolt heads with a rotary motion of the brush, followed immediately by the general painting of the whole surface, including the edges and bolt heads.

The application of the second field coat shall be deferred until adjoining concrete work has been placed and finished. If concreting operations have damaged the paint, the surface shall be re-cleaned and repainted.

c. **General Manners**

Painting shall be done in a neat and workmanlike manner. Paint may be applied with hand brushes or be spraying, except aluminum paint which preferably shall be applied by spraying. By either method the coating of paint applied shall be smoothly and uniformly spread so that no excess paint shall collect at any point. If the work done by spraying is not satisfactory to the Engineer hand brushing shall be required.

d. **Brushing**

When brushes are used, the paint shall be so manipulated under the brush as to produce a smooth, uniform, even coating in close contact with the metal or with previously applied paint, and shall be worked into all corners and crevices.

e. **Spraying**

Power spraying equipment shall be used to apply the paint in a fine spray. Without the addition of any paint, the sprayed area shall be immediately followed by brushing, when necessary, to secure uniform coverage and to eliminate wrinkling, blistering and air holes.

f. **Removal of Paint**

If the painting is unsatisfactory to the Engineer the paint shall be removed and the metal thoroughly cleaned and repainted.

ITEM 07 : ROOFING WORKS

SCOPE OF WORK

This item shall consist of furnishing all PVC roofing materials and accessories including labor required in undertaking the proper installation of canopy shown on the plans and in accordance with this specification.

MATERIAL REQUIREMENTS

1. Framing

- a. Framing use for covered walkway shall consist of 2" x 6" GI Steel Tubing, 2" x 4" GI Steel tubing, 2"x2" & 1" x1" Angular Bar, 1" & 1-1/2" Flat bar welded/fastened together indicated on the plans including bolts and nuts.

2. PVC Roofing

PVC roofing sheet shall correspond to the type and thickness indicated on the plans or to the commercially available thickness and must be subject to the approval of the Project-in-Charge.

Fastening hardware shall be screws that are compatible with PVC roofing. The choice of type and nature of screws shall be responsibility of the contractor installing the materials and should be adapted with accordance to the type of supports being used.

Use appropriate sealant for PVC roofing.

EXECUTION

INSTALLATION PROCEDURE

Before any installation works is commenced, the underside masking of the sheet shall be removed. Never step on sheets between trellis or in the middle of a framing. In emergency, step only on the line of the trellis or structural framing.

The Contractor shall ensure the canopy pitch is at a minimum 1% slope to provide correct water runoff. If a flatter pitch is required, additional weatherproofing shall be required and shall be subjected to the approval of the Project-in-Charge.

The Contractor shall ensure the use of proper type of sealing tape/sealant according to the PVC sheet used, verifying that the prepared sheets are mounted correctly.

PVC Roofing sheets shall be cut with standard wood or metal workshop equipment. Saw bladers designed especially for plastic yield best results. Ensure that the sheet is properly supported before cutting.

Sheet shall be padded, package and flattened out in good condition during storage and transport. Store sheets on a flat surface in a well-protected area away from direct sunlight. Avoid chemicals, paints, adhesives and other synthetic materials that are not compatible with PVC Roofing sheets.

ITEM 08 : ELECTRICAL WORKS

SCOPE OF WORK

The work to be done shall consist of furnishing, delivering and installing electrical materials/fixtures completed in accordance with all the details of the electrical works as shown on the drawings including materials, labor, tools and equipment and all incidental works as found necessary.

Refer to electrical plans/drawings for location and extent of work involved.

GENERAL REQUIREMENTS

- a) All works shall be done in accordance with the requirements of the publications and agencies having jurisdiction, as well as the requirements of the approved standards.
1. National Fire Protection Association - (NFPA)
 2. National Electrical Manufacturer Association - (NEMA)
 3. Underwriter Laboratories, Inc. - (UL)
 4. Philippine Electrical Code - (PEC)
Philippine National Standard - (PNS)
 5. Federation Specification:
Circuit Breaker, Molded Case, Branch
Circuit and Service
 6. American National Standard Institute - (ANSI)
 7. American Society for Testing and Materials - (ASTM)
 8. Illuminating Engineering Society - (IES)
 9. Light Emitting Diode - (LED)
- b) The Contractor shall employ a licensed Registered Electrical Engineer or Master electrician to perform or to supervise and to conduct the continuous inspection of all electrical work.
- c) The Contractor shall first obtain approval from the Authority before procurement, fabrication or delivery of electrical materials to the site. Partial submittals will not be acceptable and will be returned without review. Submittals shall include the Manufacturer's Name, Trade Name, Place of Manufacture, Catalog Model or Number, Nameplate Data, Size, Layout Dimensions, Capacity, Project Specification and Paragraph Reference, Technical Society Publication References and other information necessary to establish contract compliance of each item to be furnished.
- d) The materials and equipment to be furnished shall be standard products of reputable manufacturer engaged in the reproduction of such materials and equipment.
- e) All permits and electrical fees required for this work shall be obtained at the expense of the Contractor. The Contractor shall furnish the Engineer-in-Charge, the final Certificates of Inspections and approval from the proper government authorities after the completion

of work. The Contractor shall prepare all as-built plans and all other paper works as required by the enforcing authorities.

- f) The Contractor shall furnish and install electrical materials as shown in the drawings. A licensed Electrical Engineer or Master Electrician is required to implement the installation of the electrical system.
- g) Electrical installation shall conform to the requirements of Philippine Electrical Code (PEC) and the other approved standards.
- h) The contractor shall install all electrical works with the supervision of the qualified Registered Electrical Engineer (REE) or Master Electrician. All electrical installation applications regardless of capacity and voltage whether new, addition or revision shall be accompanied by electrical plans signed and sealed by a duly licensed Professional Electrical Engineer (PEE).

MATERIAL REQUIREMENTS

All materials shall be brand new and shall be of the approved type meeting all the requirements of the Philippine Electrical Code and bearing the Philippine Standard Agency (PSA) mark.

PRODUCTS

SOLAR LED LIGHT

Specifications:

Input : Solar Powered

LED Type: SMD

Battery: Lithium Battery

LED Efficacy: 120-130lm/W

Material : ABS+PC, Dimension : 210*170*50mm

Solar Panel (max volt.) : 1000V DC, Dimension:350*290*17mm

CONDUIT AND FITTINGS

Conduit to be installed shall be polyvinyl chloride. It shall be manufactured to schedule 40 outside diameter. All fittings and bends shall be solvent bonded using manufacturers recommended product.

EXECUTION

INSTALLATION

Prior to commencement of work, the contractor shall present sample of the solar light to be checked for approval of the Registered Electrical Engineer or Master Electrician. The contractor shall follow the standard procedure on installation of the supplied solar light. Solar light shall be installed on every column as shown in the plans.

WORKMANSHIP

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

TESTING OPERATIONS

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

GUARANTEE

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

ITEM 09 : PAINTING WORKS**GENERAL**

The work included in this section consists of the furnishing of all labor, materials, tools and all appurtenant work in connection with painting and coatings in accordance with these specifications. All paints and coatings shall be applied by painting subcontractors and workmen approved by the Engineer.

SCOPE OF WORKS

The following surfaces are to be painted except where otherwise specified or shown:

- a) Metal surfaces and above ground piping
- b) All exposed concrete
- c) All structural and miscellaneous metal
- d) All equipment furnished without factory finished surfaces
- e) All exposed steel mullions, tubular frames, door frames, steel sash and metal windows
- f) All sheet metal and ferrous metal trim.
- g) Interior and exterior surfaces of the building including all concrete block masonry

The following surfaces are not to be painted:

- a) Ferrous metals having approved plating or factory paint finishes.
- b) Non-ferrous metals, unless otherwise specified or indicated; galvanized metal shall not be considered a non-ferrous metal.
- c) Equipment with factory finished surfaces unless otherwise specified.

No concrete, wood metal or any other surfaces requiring protection shall be left unpainted even not specifically defined herein.

Ferrous metals without approved plating or factory paint finishes shall be protected against rust and corrosion from effects of salt water, high humidity and contaminating influences of pitting, scaling and weakening.

Right of Rejection

Exterior painting or interior finishing shall be done under conditions which shall not jeopardize the appearance or quality of the painting or finishing in any way. The Engineer shall have the right to reject all materials or work in the course of the painting job.

Protection of the Work

The contractor shall endeavor to protect the work of others during the time painting work is in progress. The contractor shall be responsible for any and all damage to any other work in the course of the painting job.

Protective coverings shall be used to protect floors, fixtures and equipment while painting. Care shall be exercised to prevent paint being spattered onto surfaces which are not to be painted.

Workmanship

All painting work shall be first class and in accordance with the best standard practices of the trade.

The contractor shall examine carefully all surfaces to be painted and before beginning any work, shall make sure that the work of other trades has been installed in a workman like condition ready to receive paint.

Metal surfaces shall be applied with a solution to make it clean, dry and free from mill scale, rust, grease, oil or any other substances before applying (spraying or brush) in concentrated form a solution that will retard the effects of salt water and other brine salts, such as sodium chloride (NaCl), calcium chloride (CaCl) and zinc bromide (ZnBr) which could affect the quality of structural steel-ferrous metals before the application of paint primer solution and metal finish coating.

Paint shall be applied in the right consistency and each coat shall be brushed evenly free of brush marks, sags and runs. Care shall be exercised to avoid lapping of paint on glass or hardware. Paint shall be sharply applied to required lines. Finished paint surfaces shall be free from defects or blemishes. Surfaces from which such paint cannot be removed satisfactorily shall be painted or repainted, as required to produce a finish satisfactory to the Engineer.

Succeeding paint coatings shall be applied only when the previous coat is hard and dry.

All painting materials shall be used strictly in accordance with the manufacturer's directions.

Storage of Materials

All painting materials and equipment not for immediate use shall be stored in a room approved by the Engineer for that purpose. The receiving, opening and mixing of all paint materials shall be done in this room.

Necessary precautions shall be taken to prevent fire. Rags, waste and other materials, soiled with paint shall be removed from the premises at the end each day's work or stored in metal containers with metal covers.

Preparation of Paint

Paint containers shall be delivered to be the job site in manufacturer's unopened containers and shall be opened only when required for use. Paint shall be mixed only in the designated room or space in the presence of the Engineer or his representative. Paint shall be thoroughly stirred or agitated to uniformly smooth consistency suitable for proper application. Unless otherwise specified or approved, no materials shall be reduced, changed or used except in accordance with manufacturer's label or tag on container. In all cases, paint shall be prepared and handled in manner that will prevent deteriorated and contamination with pollutants.

Clean-Up

Upon completion of work, the Contractor shall remove all surplus material. All paint spills shall be removed and the entire premises shall be cleaned of all rubbish, and debris, caused by the work. Finished surfaces shall be presented clean and free from blemishes and is acceptable in every way. All glass shall be cleaned of paint spots and polished before the job is presented for acceptance by the owner.

MATERIAL REQUIREMENTS

a) **Materials** - A complete list of materials proposed for use shall be submitted by the Contractor for the Engineer's approval. The Contractor may substitute other paint materials for those specified in section 27.12 provided written approval from the Engineer is received stating that said proposed substitute materials are equal to that specified and are approved for use. The painting material shall be delivered to the job site in its original containers properly labeled without evidence of tampering, substitution of contents, or of deterioration.

b) **Color and Sample** - all finish colors shall be as selected by the Owner. In multicoat work using color pigmented paints, each coat shall have sufficient variation of color to easily distinguish it from the preceding coat. Using specified or approved materials, 3 sample panels of each finish, including all coats thereof shall be prepared and submitted for the Owner's approval. Complete work shall match approved colors and samples.

Preparation of Surfaces

a) **General** - except as otherwise specified, surfaces to be painted shall be clean, smooth and dry. The Contractor shall report to the Engineer in writing any surfaces which cannot be properly prepared for painting if work is commenced before defects have been reported and corrected, any resulting unsatisfactory finish shall be rectified at no cost to the PPA.

b) **Concrete and Masonry** - All concrete and masonry surfaces shall be cured thirty days prior to painting. Dirt, dust, oil, grease efflorescence and other deleterious matter shall be removed and surfaces roughed when necessary to insure good paint adhesion. The method of surface preparation shall be left to the discretion of the Contractor, but results obtained shall be satisfactory to the Engineer. Before application of resin emulsion paint, surfaces shall be prepared in accordance with the manufacturer's directions. Before application of oil base or latex paints, surfaces shall be tested for presence of alkali; if alkali is present, neutralize as recommended by the manufacturer of the paint materials to be applied.

c) **Plaster** - Dirt, dust, loose plaster and other deleterious matter which would prevent good paint adhesion shall be removed. All holes, cracks and depression shall be neatly filled with patching plaster, mixed and applied to match existing plaster. Patches shall be sanded flush and smooth and properly sealed before applying prime coat. After priming surfaces, suction spots shall be touched up with additional prime coat material until surfaces evidence a uniform coating. Enamel undercoats on smooth plaster shall be sandpapered by hand (with no.00 sandpaper) and dusted clean before applying succeeding.

d) **Metal** - Dirt, scale and rust shall be removed by scraping, wire brushing and sanding or sandblasting as required. Oil and grease shall be removed with mineral spirits or appropriate solvent. Before painting ferrous metal surfaces, including galvanized ferrous metal, surfaces shall be pretreated with approved phosphoric acid etching cleaner in accordance with the manufacturer's directions to produce a chemically clean surface. Unless already performed in accordance with specifications of other sections, abrasions and bare spots in shop prime coatings shall be touched up with metal prime matching the shop coatings. Enamel undercoats shall be sandpapered by hand (with no.00 sandpaper) and dusted clean before applying succeeding coat.

e) **Woodwork** - Unless already properly sanded, woodwork shall be sandpapered smooth by hand before priming surfaces, knots, pitch pockets and sap steaks shall be thoroughly cleaned of residue and touched up with shellac varnish coating. After priming surface, nail holes, cracks and depressions shall be neatly filled with putty or

other approved filler, colored to match required finish. Enamel undercoats shall be sanded by sand (with no.00 sandpaper) and dusted clean before applying succeeding coat.

Application of Paint

a) General - All painting and finishing shall be performed by skilled craftsmen. Each coat of paint shall be applied with the right consistency, evenly, free of laps, sags and runs and cut sharply to required lines. Paint shall be applied only under dry and dust free conditions that will insure properly finished surfaces, free of defects and blemishes unless otherwise directed by the Engineer. Paint shall not be applied when temperature is likely to be above 90 F. sufficient time shall be allowed between applications of coats. All primer and intermediate coats shall be unscarred and completely integral at time of application of each succeeding coat. The Engineer shall be notified when each coat is inspected and approved by the Engineer, no succeeding coats shall be applied. Whenever he coats of a dark colored paint are specified the first coat shall contain sufficient powdered aluminum t act as an indicator for proper coverage when applying the second coat.

b) Method of Application - Paint should be applied by brush, spray, or other application method approved by the Engineer.

c) Priming and Back Painting

Priming - Before installation, all surfaces of millwork which are to be painted shall be primed giving particular attention to sealing of cross grained surfaces. In all cases, all work shall be primed as soon as possible after installation, as required, or in case of prefabricated items, at fabricator's shop or mill before shipment, if practicable. Except as otherwise specified, priming shall consist of first coat herein after specified under "Finishes".

Back-Painting - woodwork, millwork and casework to be installed against concrete masonry or plaster shall be back painted with one.

ITEM 10 : MOORING SYSTEM**SCOPE OF WORKS**

1. The work included furnishing of all labor, materials and equipment to complete the installation of stainless-steel mooring cleats.
2. The Contractor shall furnish and install the necessary fittings as shown on the drawings and/or specified.

Supplementary parts necessary to complete and install each item of works shall be included whether or not shown or specified. The Contractor shall furnish to relevant trades all anchors, fastening, inserts, fittings, fixtures or the like to be installed on or required for securing the works.

The Contractor shall submit shop drawings of all fitting works prior to placing orders and commencement of any fabrication.

MATERIAL REQUIREMENTS

Designated load capacity of mooring cleats shall be as shown on the drawings, and shall be referred to as the safe working load. The mooring cleat shall be capable of withstanding a proof test load of 1.5 times the safe working load.

Mooring cleat shall be of the dimensions, weights, capacities and designs that are in accordance with shop drawings, approved by the Engineer and shall be fabricated by Contractor with stainless steel conforming to the requirements indicated in the plan/drawings, or approved equivalent.

The size of the stainless steel pipe and anchors shall be in accordance with the specifications provided in the plan/drawings.

Concrete Foundation:

Concrete foundation for mooring cleat shall conform to the requirements of "Reinforced Concrete".

Visual Inspection:

All mooring cleat delivered/fabricated to the site shall be inspected by the Engineer for any signs of flaws or defect inimical to usage.

Test Inspection:

Inspection of all materials and methods of fabrication shall be carried out by the Contractor. However, the Engineer reserves the right to inspect all facilities at any time during manufacture to ensure that the materials and workmanship are in accordance with Specifications and the best of Workmanship.

All concrete works shall be done in accordance with the standard specifications for plan and reinforced concrete adopted by the PPA. Cement to be used shall be Portland Cement.

The fine aggregate for concrete shall consist of natural sand or of inert materials with similar characteristics, having clean, hard and durable grains, free from organic matter or loam.

The coarse aggregate for concrete shall consist of crushed rock of durable and strong qualities or clean and hard gravel. Size of coarse aggregate to be used shall vary from 20 mm to 40 mm (3/4" to 1-1/2").

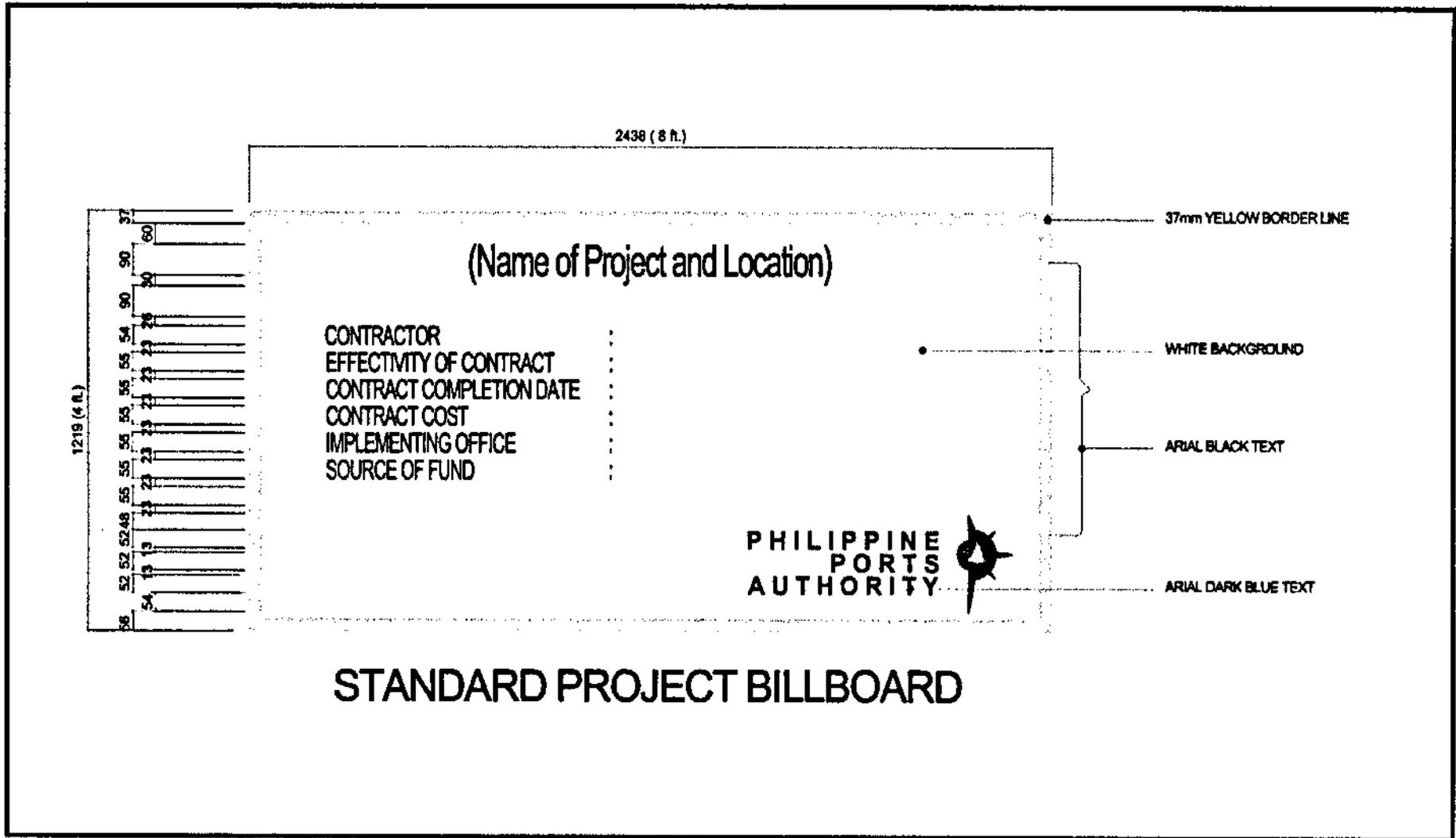
ITEM 11 : PROJECT BILLBOARD**SPECIFICATION**

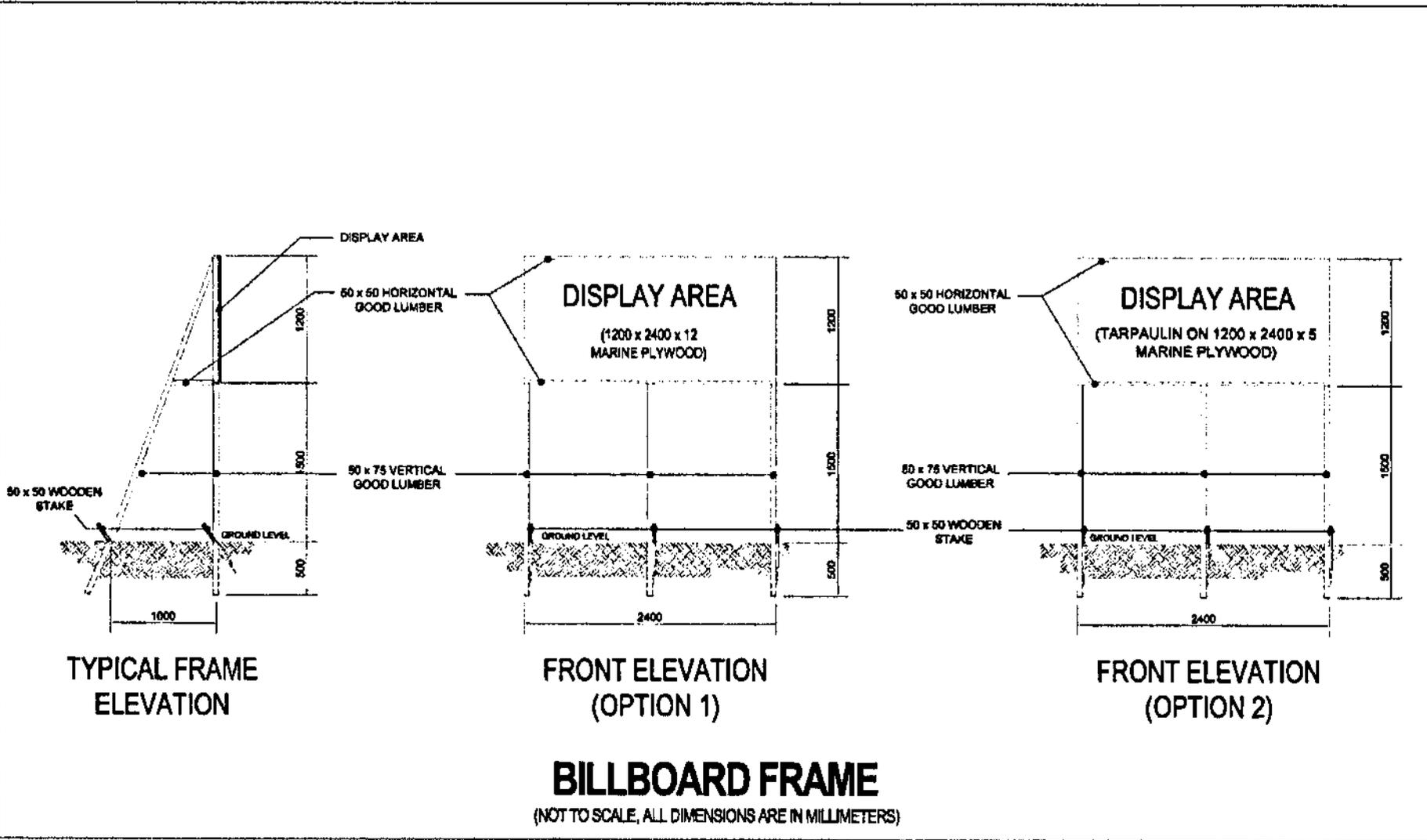
The Project Billboard shall be installed at location(s) designated by the Engineer.

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 12 : 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.

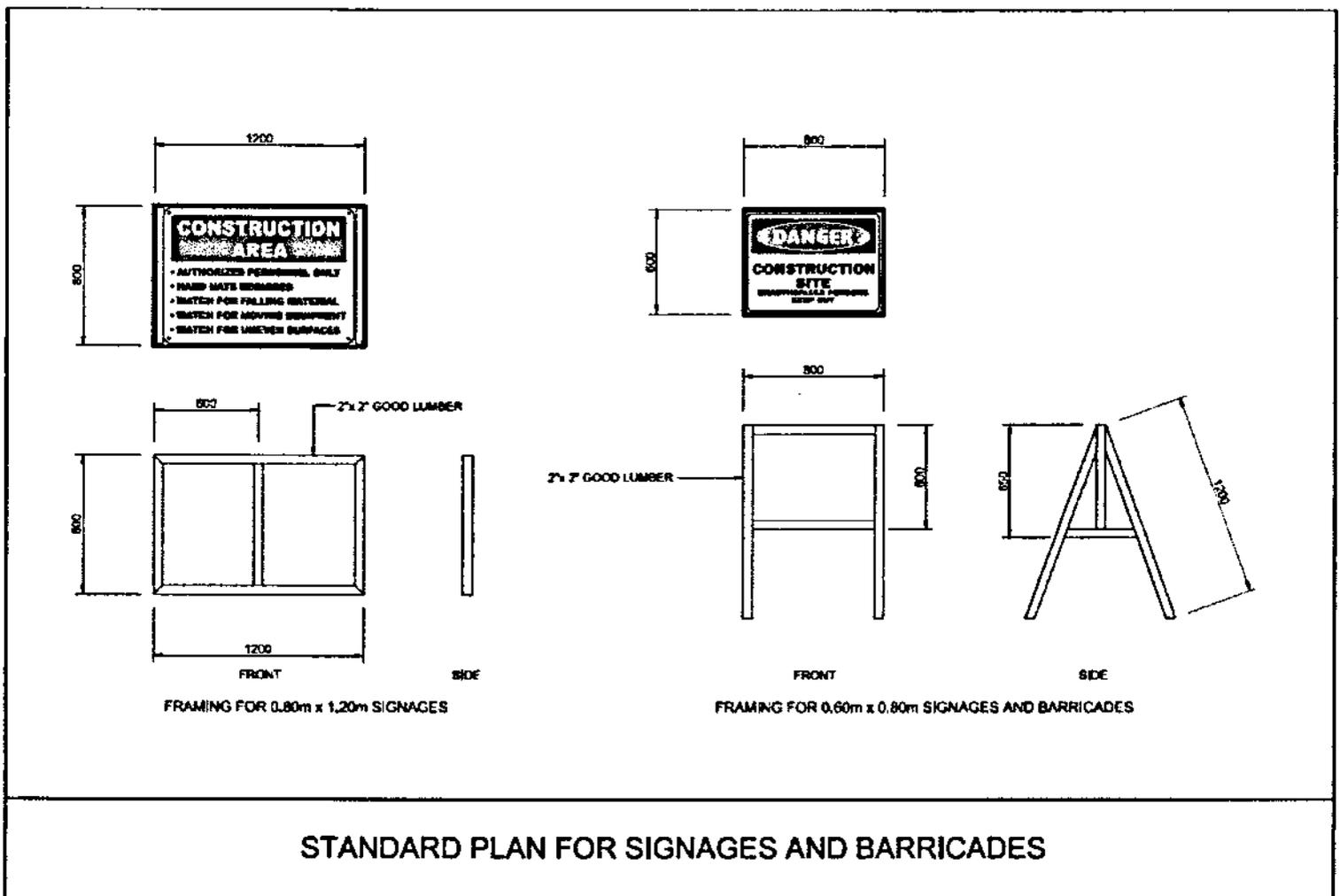
SPECIFICATION

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 1/2 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:

IMPROVEMENT OF PAROLA WHARF, ILOILO CITY

- 1 of 9 - Vicinity Map, Site Development Plan, General Notes and Legend and Perspective
- 2 of 9 - General Project Layout Plan
- 3 of 9 - Cross Sections
- 4 of 9 - Detail of Stairlanding, Detail of RC Curb, Mooring Cleat Details and Schedule
- 5 of 9 - Walkway Canopy Foundation Plan and Foundation Details
- 6 of 9 - Walkway Canopy Roof Framing Plan and Elevation, Roof Beam Details and Spot Details
- 7 of 9 - Drainage Plan and Ramp Details
- 8 of 9 - Drainage Section Detail and catch Basin Detail
- 9 of 9 - Lighting Layout Plan and Solar Lighting Detail

SECTION VIII
BILL OF QUANTITIES
and
ATTACHMENTS

BID SUMMARY
IMPROVEMENT OF PAROLA WHARF, ILOILO CITY
PAROLA CONCEPCION, CITY PROPER, ILOILO CITY



NO.	DESCRIPTION OF WORK	AMOUNT (Pesos)
BILL NO. 1	MOBILIZATION/DEMOBILIZATION	
BILL NO. 2	GENERAL EXPENSES	
BILL NO. 3	CONSTRUCTION OF RETAINING WALL	
BILL NO. 4	CONSTRUCTION OF APRON	
BILL NO. 5	CONSTRUCTION OF STAIRLANDING AND RC CURB	
BILL NO. 6	CONSTRUCTION OF COVERED WALKWAY	
BID PRICE		-

Name of Firm

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

Date

**BILL OF QUANTITIES
IMPROVEMENT OF PAROLA WHARF, ILOILO CITY
PAROLA CONCEPCION, CITY PROPER, ILOILO CITY**



NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (6)
BILL NO. 1 1.01	1 MOBILIZATION/DEMobilIZATION Mobilization/Demobilization/ Clearing of project Site after project completion	l.s.	1.00		
TOTAL FOR BILL NO. 1					-

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

**BILL OF QUANTITIES
IMPROVEMENT OF PAROLA WHARF, ILOILO CITY
PAROLA CONCEPCION, CITY PROPER, ILOILO CITY**



NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (6)
BILL NO.	2 GENERAL EXPENSES				
2.01	General Expenses Includes pre-con survey and provision of temfacil	l.s.	1.00		
2.02	Provide Construction Safety and Health Program in the Execution of the project	l.s.	1.00		
TOTAL FOR BILL NO. 2					-

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

**BILL OF QUANTITIES
IMPROVEMENT OF PAROLA WHARF, ILOILO CITY
PAROLA CONCEPCION, CITY PROPER, ILOILO CITY**



NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (6)
BILL NO.	3 CONSTRUCTION OF RETAINING WALL				
3.01	Supply and deliver to site 400mm x 100mm x 10.50mm x 12m Sheet Piles	In.m.	1,648.00		
3.02	Handle, Pitch and Drive steel sheet pile to include falseworks	In.m.	1,648.00		
3.03	Supply and place concrete 3,500 psi PC Concrete for Quay Wall to include formworks as detailed in the plan	cu.m.	31.90		
3.04	Supply and install steel reinforcement for Item 3.03 as detailed in the plan	kgs.	1,760.12		
TOTAL FOR BILL NO. 3					

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

**BILL OF QUANTITIES
IMPROVEMENT OF PAROLA WHARF, ILOILO CITY
PAROLA CONCEPCION, CITY PROPER, ILOILO CITY**



NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (6)
BILL NO. 4	CONSTRUCTION OF APRON				
4.01	Supply and Place Core Rocks, 5~50 kg/pc as detailed in the plan	cu.m.	564.14		
4.02	Supply and install geotextile fabric as detailed in the plan and as directed by the engineer	sq.m.	332.80		
4.03	Supply and place sand and gravel fill	cu.m.	827.70		
4.04	Supply, spread and compact selected fill	cu.m.	116.80		
4.05	Supply, place and compact Item 200 Base Coarse, 200mm thick	cu.m.	40.00		
4.06	Supply and place 3,500 psi PC Concrete, 250 mm thick including temperature bars	cu.m.	60.00		
TOTAL FOR BILL NO. 4					-

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

BILL OF QUANTITIES
IMPROVEMENT OF PAROLA WHARF, ILOILO CITY
PAROLA CONCEPCION, CITY PROPER, ILOILO CITY



NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (6)
BILL NO. 5	CONSTRUCTION OF STAIRLANDING AND RC CURB				
5.01	Supply and Place Core Rocks, 5~50 kg/pc including Class A PCC Grout as detailed in the plan	cu.m.	190.40		
5.02	Supply and Place 3,500 psi PC Concrete for Stairlanding and Curb to include formworks as detailed in the plan	cu.m.	125.00		
5.03	Supply and install steel reinforcement for Item 5.02 as detailed in the plan	kgs	8,393.00		
5.04	Supply and install stainless steel mooring cleats as detailed in the plan	unit	14.00		
TOTAL FOR BILL NO. 5					-

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

**BILL OF QUANTITIES
IMPROVEMENT OF PAROLA WHARF, ILOILO CITY
PAROLA CONCEPCION, CITY PROPER, ILOILO CITY**



NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (6)
BILL NO. 6	CONSTRUCTION OF COVERED WALKWAY				
6.01	Supply and place concrete 3,500 psi footing, column, roof beam, catch basin and benches including forms and CB pipe outlet	cu.m.	17.90		
6.02	Supply and Install steel reinforcement for Item 6.01	kgs	2,131.43		
6.03	Supply, Deliver and Install Roof Framing and Roofings	sq.m.	192.00		
6.04	Supply and Install Baluster and Decorative Tiles	lot	1.00		
6.05	Painting works for Columns, beams, benches, baluster and roof framings	sq.m.	510.81		
6.06	Supply, Deliver and Install Electrical Materials & Lighting Fixtures	lot	1.00		
TOTAL FOR BILL NO. 6					-

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

MOBILIZATION/DEMobilIZATION

- Item 1.01** 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.

BILL NO. 2

GENERAL EXPENSES

- Item 2.01** **General Expenses includes pre-con survey and provision of temporary facility**

The quantity to be paid for shall be the actual implementation of pre-con survey and provision of temporary facility 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** **Provide Construction Safety and Health Program in the execution of the project**

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

BILL NO. 3

CONSTRUCTION OF RETAINING WALL

- Item 3.01** **Supply and deliver to site 400mm x 100mm x 10.50mm x 12m Sheet Piles**

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

- Item 3.02** **Handle, Pitch and Drive steel sheet pile to include falseworks**

The quantity to be paid for shall be the actual length in linear meter of the driven sheet pile in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

- Item 3.03** **Supply and place concrete 3,500 psi PC Concrete for Quay Wall to include formworks as detailed in the plan**

The quantity to be paid for shall be the actual volume in cubic meter of supplied and placed 3,500 psi portland cement concrete 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 reinforcement for Item 3.03 as detailed in the plan

The quantity to be paid for shall be the actual weight in kilograms of supplied and installed steel reinforcement 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

CONSTRUCTION OF APRON

Item 4.01 Supply and Place Core Rocks, 5-50 kg/pc as detailed In the plan

The quantity to be paid for shall be the actual volume in cubic meter of the supplied and placed core rocks, 5-50 kg/pc 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 geotextile fabric as detailed in the plan and as directed by the engineer

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

Item 4.03 Supply and place sand and gravel fill

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

Item 4.04 Supply, spread and compact selected fill

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

Item 4.05 Supply, place and compact Item 200 Base Coarse, 200mm thick

The quantity to be paid for shall be the actual volume in cubic meter of supplied, placed and compacted Item 200 base coarse in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 4.06 Supply and place 3,500 psi PC Concrete, 250 mm thick including temperature bars

The quantity to be paid for shall be the actual volume in cubic meter of supplied and placed 3,500 psi portland cement concrete 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

CONSTRUCTION OF STAIRLANDING AND RC CURB

Item 5.01 Supply and Place Core Rocks, 5-50 kg/pc including Class A PCC Grout as detailed in the plan

The quantity to be paid for shall be the actual volume in cubic meter of supplied and placed core rocks, 5-50 kg/pc including the class A Portland cement concrete 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 5.02 Supply and Place 3,500 psi PC Concrete for Stairlanding and Curb to include formworks as detailed in the plan

The quantity to be paid for shall be the actual volume in cubic meter of supplied and placed 3,500 psi portland cement concrete for stairlanding and curb 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 5.03 Supply and install steel reinforcement for Item 5.02 as detailed in the plan

The quantity to be paid for shall be the actual weight in kilograms of supplied and installed steel reinforcement 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 5.04 Supply and install stainless steel mooring cleats as detailed in the plan

The quantity to be paid for shall be the completeness of units of the supplied and installed stainless steel mooring cleats 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

CONSTRUCTION OF COVERED WALKWAY

Item 6.01 Supply and place concrete 3,500 psi footing, column, roof beam, catch basin and benches including forms and CB pipe outlet

The quantity to be paid for shall be the actual volume in cubic meter of supplied and placed 3,500 psi portland cement concrete 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 steel reinforcement for Item 6.01

The quantity to be paid for shall be the actual weight in kilograms of supplied and installed steel reinforcement 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, Deliver and Install Roof framing and Roofings

The quantity to be paid for shall be the actual area in square meter of supplied, delivered and installed roof framing and roofing 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 Supply and Install Baluster and Decorative Tiles

The quantity to be paid for shall be the completeness of the installed baluster and decorative tiles 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 Painting works for Columns, beams, benches, baluster and roof framings

The quantity to be paid for shall be the actual painted area 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 Painting works for Columns, beams, benches, baluster and roof framings

The quantity to be paid for shall be the actual painted area 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	Stake Truck, owned/leased
1	unit/s	Telescopic Boom Truck, 11-15 tons cap., 160 hp , owned/leased
1	unit/s	Cargo Truck, 9-10 MT, 270hp , owned/leased
1	unit/s	Backhoe with Hydraulic Steel Sheet Pile Driver (0.50cu.m cap), owned/leased
1	unit/s	Drop Hammer (2T) , owned/leased
2	unit/s	Oxy-Acetylene Cutting Outfit, owned
1	unit/s	Welding Generator (30KVA), owned/leased
2	unit/s	Welding Machine, 500 HP, owned/leased
2	unit/s	Angle Grinder, owned
2	unit/s	Transit Mixer, 5 cu.m cap, owned/leased
2	unit/s	Concrete Vibrator, 3.5 hp , owned
1	unit/s	Payloader, 1.80 cu.m. cap, owned/leased
1	unit/s	Bar Bender (25mm dia., minimum), owned
1	unit/s	Bar Cutter (25mm dia., minimum), owned
1	unit/s	Backhoe, Crawler mounted(0.50 cu.m. cap), owned/leased
1	unit/s	Road Grader, 135 HP, owned/leased
1	unit/s	Vibratory Road Roller, 10 tonner, 130 HP, owned/leased
1	unit/s	One-bagger Conc. Mixer, owned/leased
1	unit/s	Service Vehicle, owned/leased

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.	Nurse / Health Officer

EQUIPMENT / MATERIALS

Personnel Protective Equipment

10	pcs.	Hard Hats
10	pairs	Gloves (rubberized)
10	pcs.	Safety Glasses/Goggles (clear)
10	pcs.	Long sleeve T-shirt
10	pairs	Safety Shoes

Safety Devices

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

Medical and First Aid System	-	Ten (10) mos.
Temporary shelter for workers	-	1 lot

NOTE:

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

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

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

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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)
8 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 	2 from 200 pipe or fraction thereof 2 from 100 pipe or fraction thereof 2 from 3000ft (914m) or fraction thereof
	Mechanical/Tensile	One (1) tension test shall be made on one length or fraction thereof of each size, or one piece of skelp representing each lot of 200 lengths or fraction thereof of each size
2 Polyurethane Coating	Mill Certificate and Quality Test	One per fabrication
3 Concrete	Same test as for SC (F)	Same frequency as SC (F)
4 Fine Aggregate	Same test as for SC (B)	Same frequency as SC (B)
5 Coarse Aggregate	Same test as for SC (C)	Same frequency as SC (C)
6 Steel Bars	Same Test as SC (E)	Same frequency as SC (E)
7 Water	Same Test as SC (D)	Same frequency as SC (D)
Rubber Dock Fenders (RDF)	Physical Test 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
Mooring Bollard (MB) and Accessories (Hexagon Nuts, Plain Washer, Anchor Ring and Anchor Bolt)	Physical Test Quality Test for Chemical Composition and Mechanical Properties	All Units One per fabrication
II. Construction of Back-Up Area, Causeway and Pavement Sheet Piling (SP) A Concrete Sheet Piles 1 Concrete 2 Steel Bars 3 High Tension Strands 4 Fine Aggregates 5 Coarse Aggregates B Steel Pipe Piles 1 Steel 2 Concrete 3 Fine Aggregate 4 Steel Bars	Same test as for SC (F) Same test as for SC (E) Same test as for P (A 3) Same test as for SC (B) Same Test as for SC (C) Same test as for P (B1) Same test as for SC (F) Same test as for SC (B) Same test as for SC (E)	Same frequency as SC (F) Same frequency as SC (E) Same frequency as P (A 3) Same frequency as SC (B) Same frequency as SC (C) Same frequency as P (B1) Same frequency as SC (F) Same frequency as SC (B) Same frequency as SC (E)

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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

Handwritten initials/signature

PPA MEMORANDUM CIRCULAR
 No. 02
 Series of 2016
 Attachment
 Page 8 of 10

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

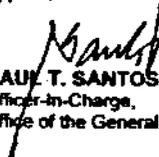
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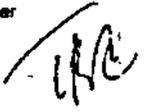
PPA MEMORANDUM CIRCULAR
 No. 02
 Series of 2016
 Attachment
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Materials/Items of Work	Required Tests	Minimum Incremental Frequency of Tests
Fixtures	Inspection and Evaluation Report from the Engineer Testing and Commissioning	One per item
Pipe Culverts	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**
Original copy of Notarized Bid Securing Declaration; **and**
- (f) 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. : _____

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: **Improvement of Parola Wharf, Iloilo City;**
- 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.

¹ currently based on GPPB Resolution No. 09-2020

- k. We likewise certify/confirm that the undersigned, is the duly authorized representative of the bidder, and granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for the **Improvement of Parola Wharf, Iloilo City of the Philippine Ports Authority.**

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

Name: _____

Legal Capacity: _____

Signature: _____

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

Date: _____

STATEMENT OF 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:

- 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, 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.
- c. Recapitulation or Final Bill of Quantities.

Name of Firm

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

Date

Revised: August 2023

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. Piling Works	In.m.	824.00						
2. Rockworks (5-50 kg/pc)	cu.m.	377.27						
3. Placing of Fill Materials	cu.m.	472.25						
4. Reinforced Concrete Works	cu.m.	117.40						

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: August 2023

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 II – 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: August 2023

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 crans, 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
Revised: August 2023

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

Date

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 **Improvement of Parola Wharf, Iloilo City of the Philippine Ports Authority**, as shown in the attached duly notarized Special Power of Attorney;
3. [Name of Bidder] is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting;
4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;
5. [Name of Bidder] is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;
6. The owner or sole proprietor is not related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;
7. [Name of Bidder] complies with existing labor laws and standards; and
8. [Name of Bidder] is aware of and has undertaken the responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:
 - a. Carefully examining all of the Bidding Documents;
 - b. Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
 - c. Making an estimate of the facilities available and needed for the contract to be bid, if any; and
 - d. Inquiring or securing Supplemental/Bid Bulletin(s) issued for the [Name of the Project].
9. [Name of Bidder] did not give or pay directly or indirectly, any commission, amount, fee, or any form

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

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

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

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

[Jurat]

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

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

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

AFFIDAVIT

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

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

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

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

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

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

[Jurat]

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

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

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

BID SECURING DECLARATION
Project Identification No.: _____

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

I/We, the undersigned, declare that:

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

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

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

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

CONSTRUCTION METHODOLOGY

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

MINIMUM SCOPE OF CONSTRUCTION METHODOLOGY

A. IMPROVEMENT OF PAROLA WHARF, ILOILO CITY

MOBILIZATION/DEMobilIZATION, I.s.

GENERAL EXPENSES

1. General Expenses includes pre-con survey and provision of temfacil (Lumpsum = 1 I.s.)
2. Provide Construction Safety and Health Program in the Execution of the project (Lumpsum = 1 I.s.)

CONSTRUCTION OF RETAINING WALL

3. Supply and deliver to site 400mm x 100mm x 10.50mm x 12m sheets piles (Length= 1,648.00 ln.m.);
4. Handle, Pitch and Drive steel sheet pile to include falseworks (Length = 1,648.00 ln.m.);
5. Supply and place concrete 3,500 psi PC Concrete for Quay Wall to include formworks as detailed in the plan (Volume = 31.90 cu.m.);
6. Supply and Install steel reinforcement for Item 3 as detailed in the plan (Weight = 1,760.12 kgs.);

CONSTRUCTION OF APRON

1. Supply and Place Core Rocks, 5~50 kg/pc as detailed in the plan (Volume = 564.14 cu.m.)
2. Supply and install geotextile fabric as detailed in the plan and as directed by the engineer (Area = 332.80 sq.m.)
3. Supply and place sand and gravel fill (Volume = 827.70 cu.m.)
4. Supply, spread and compact selected fill (Volume = 116.80 cu.m.)
5. Supply, place and compact Item 200 Base Coarse, 200mm thick (Volume = 40.00 cu.m.)
6. Supply and place 3,500 psi PC Concrete, 250 mm thick including temperature bars (Volume = 60.00 cu.m.)

CONSTRUCTION OF STAIRLANDING AND RC CURB

1. Supply and Place Core Rocks, 5~50 kg/pc including Class A PCC Grout as detailed in the plan (Volume = 190.40 cu.m.)

2. Supply and Place 3,500 psi PC Concrete for Stairlanding and Curb to include formworks as detailed in the plan
(Volume = 125.00 cu.m.)
3. Supply and install steel reinforcement for Item 2 as detailed in the plan
(Weight = 8,393.00 kgs.)
4. Supply and install stainless steel mooring cleats as detailed in the plan
(Unit = 14.00 units)

CONSTRUCTION OF COVERED WALKWAY

1. Supply and place concrete 3,500 psi footing, column, roof beam, catch basin and benches including forms and CB pipe outlet.
(Volume = 17.90 cu.m.)
2. Supply and Install steel reinforcement for Item 1
(Weight = 2,131.43 kgs)
3. Supply, Deliver and Install Roof framing and Roofings
(Area = 192.00 sq.m.)
4. Supply and Install Baluster and Decorative Tiles
(Lot = 1 lot)
5. Painting works for Columns, beams, benches, baluster and roof framings
(Area = 510.81 sq.m.)
6. Supply, Deliver and Install Electrical Materials & Lighting Fixtures
(Lot = 1 lot)

NOTES:

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

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

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

Revised: August 2023

MANPOWER SCHEDULE

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

MANPOWER (Minimum)	CONTRACT DURATION (_____ Calendar Days)											
	M O N T H L Y											
	1	2	3	4	5	6	7	8	9	10	11	12
Project Manager												
Project Engineer												
Materials Engineer I												
Construction Safety and Health Officer												
Foreman												
- Carpenter												
- Steelman												
- Mason												
- Electrician												
- Rigger												
- Others												

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

Revised: August 2023

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

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

CONTRACT AGREEMENT

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

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

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents as required by the 2016 revised Implementing Rules and Regulations of Republic Act No. 9184 shall be deemed to form and be read and construed as part of this Agreement, viz.:
 - a. Philippine Bidding Documents (PBDs);
 - i. Drawings/Plans;
 - ii. Specifications;
 - iii. Bill of Quantities;
 - iv. General and Special Conditions of Contract;
 - v. Supplemental or Bid Bulletins, if any;
 - b. Winning bidder's bid, including the Eligibility requirements, Technical and Financial Proposals, and all other documents or statements submitted;

Bid form, including all the documents/statements contained in the Bidder's bidding envelopes, as annexes, and all other documents submitted (e.g., Bidder's response to request for clarifications on the bid), including corrections to the bid, if any, resulting from the Procuring Entity's bid evaluation;
 - c. Performance Security;
 - d. Notice of Award of Contract and the Bidder's conforme thereto; and

- e. Other contract documents that may be required by existing laws and/or the Procuring Entity concerned in the PBDs. **Winning bidder agrees that additional contract documents or information prescribed by the GPPB that are subsequently required for submission after the contract execution, such as the Notice to Proceed, Variation Orders, and Warranty Security, shall likewise form part of the Contract.**
3. In consideration for the sum of [total contract price in words and figures] or such other sums as may be ascertained, [Named of the bidder] agrees to [state the object of the contract] in accordance with his/her/its Bid.
4. The **Philippine Ports Authority** agrees to pay the above-mentioned sum in accordance with the terms of the Bidding.

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

JAY DANIEL R. SANTIAGO
General Manager

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]