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Name of Project: **REHABILITATION OF THE RIZAL MEMORIAL COLISEUM**

Location: **RMSC, P. Ocampo Sr. St., Malate, Manila**

Date Prepared: **January 07, 2019**

Subject: **PROJECT SCOPE OF WORK**

This Scope of work is supplemental to the drawings but not limited to the following:

1. General


- a.** Prepare Conservation Plan to include defects analysis and recommend the method of rectification based on sound conservation procedure and principles adhered to by International charters.
- b.** Perform documentation of conservation intervention applied to the historic fabric of the building including its character-defining elements to record its conserved transformation.
- c.** Securing of permits such as Building Permit, Electrical Permit, Sanitary Permit, Mechanical Permit, Zoning Permit, Fire Safety Permit, and other applicable clearances.

2. Site Works and Temporary Facilities

- a.** Soil investigation.
- b.** Application of Pest Control methods.
- c.** Site preparation for construction activities
 - i.** Mobilization of supplies and manpower resources
 - ii.** Erection of Temporary Facilities
 - iii.** Construction of Perimeter Fence
 - iv.** Installation of Project billboard

3. Earthworks

- a.** Cutting/breaking for the footing.
- b.** Excavation works.
- c.** Hauling and disposal.
- d.** Backfilling.
- e.** Soil poisoning.
- f.** Gavel Bedding.


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4. Structural, Concreting & Masonry Works

- a.** AHU/ACU Mounting Structure
 - i.** Fabrication and installation of reinforcing bars and formworks prior to concreting.
- b.** Structural Repair
 - i.** Rehabilitation of reinforced masonry – Stabilization of cracks, installation of missing concrete moulding, application of flexible epoxy on major cracks, repointing / grouting of masonry walls
- c.** Removal of existing structure
 - i.** Demolition of interior CHB partitions
 - ii.** Addition of egress for fire exit
- d.** Concrete Works
 - i.** Pre-cast ornamentation and Architectural Details
 - 1.** Restoration and/or reconstruction of damaged/missing ornaments
 - ii.** Rectification and consolidation of building envelope
- e.** Masonry Works
 - i.** Construction of Partitions for New Space Programming

5. Architectural Works

- a.** Partition Works
 - i.** Supply and installation of urinal and toilet partition using phenolic board with varnish finish.
- b.** Specialties
 - i.** Refurbishing and repainting of flagpole and masts
 - ii.** Replacement of court side chair (retractable)
 - iii.** Replacement of upper and lower box chairs
 - iv.** Supply and installation of multipoint heater
 - v.** Supply of benches for dressing room
 - vi.** Supply and installation of way finding system
- c.** Flooring Works
 - i.** Installation of High Density Linoleum at the seating area
 - ii.** Installation of 450mm x 450mm homogenous tile
 - iii.** Repair of Stairs and Stairwells
 - iv.** Application of Non-slip stair edging at stairwells and ramps
 - v.** Painting of flooring using epoxy finish.

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vi. Terrazzo Flooring

1. Documentation and Archival Research on existing floor patterns
2. Repair and Restoration of Damaged or Missing Portions

d. Doors and Windows Installation

- i. Replacement of Steel-framed Windows with Weather-Sealed Powder Coated Aluminum Framing**
 1. Preparation for Air-conditioning
- ii. Replacement of Exhaust Fans with Operable Windows**
- iii. Refurbishment of Roller Doors**
- iv. Refurbishment of Louvers**
- v. Weather Sealing of Main Arena Space**
- vi. Replacement of Incompatible Doors and Framing**
- vii. Repair of Existing Original Doors**
- viii. Installation of Glass Doors and Vestibules for Air-conditioned Spaces**
- ix. Repair and/or Replacement of Door Hardware and Rollers**
- x. Retrofitting of Historic Grillwork for Air-conditioned Sections**

e. Painting Works


- i. Scraping of existing paint prior to painting.**
- ii. Repair of Cracks and Plastering**
- iii. Repainting of Exterior and Interiors with Selected Colors**
- iv. Repair and repainting of bleachers**
- v. Repainting of flagpole and masts**

f. Wall Finishes

- i. Plain cement plaster finish**
- ii. Supply and installation of homogenous tile, 450mm x 450mm**
- iii. Installation of stone inlays and alabaster**

g. Ceiling Works

- i. Ceiling Board Replacement**
 1. Removal of Ceiling along Corridor and all Unnecessary Utilities
- ii. Repair and Rectification of Main Lobby Ceiling**
- iii. Repair and Rectification of Canopies**
- iv. Installation of New Ceiling Panels at various internal areas**
- v. Repainting of exposed ceiling at the corridor.**

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h. Wood Works

- i. Refurbishment and/or Replacement of Existing and Damaged Wooden Bleachers**

i. Furnishing (Specialty Works)

i. Interior Design Works

- 1. Supply and Installation of Furnishings and Interior accessories for Lobbies, Lounge Areas, Toilets, Lockers, Showers and other public indoor spaces**
- ii. Installation of New FIBA Approved HDPE Stadium Seating**
- iii. Refurbishment of Plank-type Stadium Bench Seating**
- iv. Supply and installation of new barriers and padding**
- v. Design, Supply, and Installation of new Wayfinding, Signage System and Architectural Graphics**

6. Metal Works

a. Architectural Metal Works


- i. Repair and Restoration of Metal Details**
- ii. Railings**
 - 1. Repair and Restoration of Bronze Details**
 - 2. Repair and Restoration of Steel Pipe Railings**
 - 3. Installation of Railings and replacement of courtside railings to chrome bar**
- iii. Repair and Restoration of Gates and Window Grilles**
- iv. Safety Equipment**

b. Structural Steel Components

- i. Construction of External Egress Structure & Air Handling Unit (AHU) Mounting Structure**
- ii. Rehabilitation of Catwalks**
- iii. Removal of existing Scoreboard Framing Supports and installation of new framing support.**
- iv. Repair of steel works on roofing members**

c. Ornamental Components

- i. Refurbishment of Flagpoles and Masts**
- ii. Restoration of Safety Netting and Netting Framing**

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7. Thermal Insulation and Moisture Protection Works

a. Roofing

1. Inspection and Repair of Leaks
2. Repair and/or Replacement of Damaged Members
3. Clearing and preparation for insulation
4. Exterior spray-on roofing insulation for air conditioning

ii. General Insulation

1. Removal of Obsolete and Hazardous Materials
2. Application of new Exterior Closed-Cell Spray-on Polyurethane Roofing Insulation
3. Repainting of Roof with High-SRI Paint

iii. General Waterproofing Works


1. Waterproofing of Parapets and Exposed Walls
2. Installation of Flashing
3. Waterproofing of Toilets, Lockers, and Dressing Areas
4. Waterproofing of Groundwater Seepage in Dugouts and exterior slabs
5. Application of Moisture Resistant Membrane Under Sporting Flooring
6. Application of Bituminous or Mat Waterproofing for Exterior Slabs

8. Mechanical and Plumbing

- a. Supply and Installation of a Centralized Air-conditioning System
- b. Supply and Installation of a Split-Type Air-conditioning System for offices, lounges, shower, and locker areas.
- c. Roughing-in of mechanical piping and accessories
- d. Supply and installation of ducting system
- e. Coring and metal scanning works

9. Fire Suppression System / Fire Protection

- a. Chipping and restoration for Mechanical Works
- b. Fire Detection and Alarm System
 - i. Supply and Installation of Conduits and Fittings with necessary pull wires
 - ii. Supply and Installation of Wires, Cables, and Wiring Devices
 - iii. Supply and Installation of Annunciators, Strobes, and Manual Triggering Devices
 - iv. Supply and Installation of Addressable Fire Alarm Control Panel with back-up batteries and surge protection devices
 - v. Testing and Commissioning

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- c. Fire Suppression System
 - i. Removal and Disposal of Existing Obsolete Piping and Device
 - ii. Supply and Installation of New B.I. Piping including Fitting, paintings, and other materials to complete for Wet Standpipe System
 - iii. Supply and Installation of New B.I. Pipe for Wet Standpipe System
 - iv. Supply and Installation of New Manifold Connections and Street Connection for Fire Department Connection
 - v. Supply and Installation of Fire Hose Cabinets with all accessories to complete
 - vi. Testing and Commissioning of Fire Suppression System

10. Plumbing Works

- a. Dismantling of old plumbing fixtures.
- b. Supply and Installation of plumbing fixtures
- c. Roughing-in of Plumbing Works
- d. Drainage
 - i. Rectification and de-clogging of existing drainage lines
 - ii. Roughing-in of Soil Pipes and Sanitary Works
 - iii. Construction of Storm Water Drainage System

11. Electrical Works

- a. Roughing-in of new electrical works
- b. Installation of Service Lighting
- c. Installation of Architectural Lighting
 - i. Installation of Monumental Exterior Lighting
 - ii. Installation of Specialty Interior Lighting
 - iii. Installation of FIBA-approved Sports Lighting
 - iv. Installation of Emergency and Egress Lighting
- d. Supply and Installation of Perimeter Lighting
- e. Design and Fabrication of Lighting Fixtures
- f. Auxiliary Systems
 - i. Design, Supply and Installation of Audio System
 - ii. Installation of Lighting and Sound Control Panels
- g. Supply and Installation of Feeder Lines

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