

SPECIFICATIONS

Improvement of the JHMC Office at former IHG

1. SCOPE OF WORK FOR BIDDERS

- 1.1 To construct the Improvement of the JHMC Office at former IHG building.
- 1.2 To impose required construction safety practices during the implementation of the project in compliance with the approved Occupational Safety and Health Program as required by the Department of Labor and Employment (DOLE).
- 1.3 To provide and maintain an accessible temporary field office/storage, portable toilets/latrines on approved locations for workers. The Contractor shall be held responsible for the maintenance and protection of all facilities to be provided during the duration of the Contract.
- 1.4 To provide all the necessary, required, and sufficient manpower, materials, and equipment during the project implementation, and ensure the timely completion of milestones of the project.
- 1.5 To conduct removal and proper disposal of structures and/or obstructions as indicated in the approved plans. All designated salvageable material shall be removed, without unnecessary damages, for safekeeping and turn-over to the end-user.
- 1.6 To properly and safely dispose all wastes generated during the construction phase in conformance with pertinent rules and regulations.
- 1.7 To supervise and/or monitor the presence of the assigned Project Personnel (Project Engineer/Facilitator, Materials Engineer and/or Safety Officer), as pledged in the bidding, during project implementation.
- 1.8 To conduct site visits to familiarize with the on-site conditions and existing facilities and utilities.
- 1.9 To provide as-staked and as-built plans for the completed structure/s, one (1) set original CAD drawing in A3 size, two (2) additional copies, and electronic file (editable CAD file) of the following:
 - a. Actual layout and location of the structures constructed,
 - b. Details of the constructed structure, and,
 - c. All other details of the project that may be required.
- 1.10 As-built plans shall indicate the details specified in Section 1.9 in any scale not less than 1:100 meters
- 1.11 To submit weekly Statement of Work Accomplishment reports during the duration of the Contract.
- 1.12 To shoulder all costs for power and water utilities to be used during the implementation of the project.
- 1.13 The contractor shall be responsible for all tests and engineering services required by the Specifications. The cost for inspection or test not required by the specifications but which are required by JHMC, will be borne by JHMC.
- 1.14 All tests shall be performed by accredited testing facilities and approved by JHMC, and shall be in accordance with the current standards of the American Society for testing and materials, otherwise specified by JHMC. Two (2) copies of the test procedures including results shall be furnished to JHMC.
- 1.15 To immediately report to JHMC all unearthed hazardous materials, buried treasures or artifacts, and shall be coordinated by JHMC to the concerned agencies for their appropriate action. All activities in area of concern shall cease until such time that the hazardous materials, treasures have been properly dealt with.

- 1.16 The contractor shall ensure that there will be no smoking, drinking of alcoholic beverages, spitting of mofma, loud music/sounds thru various media, loitering among construction workers assigned in the construction premises.
- 1.17 The contractor should perform regulated test/s to prove/confirm that all electrical/ electrically powered, plumbing and sanitary materials/installations are working as designed in its function.
- 1.18 All electronic products should pass all test necessary to promote safety during the installation and operation of signages requiring power/ lighting.
- 1.19 Contractor shall restore all damaged property during the project implementation to its original state.
- 1.20 To shoulder all costs of permits necessary for the implementation of the project.

2. STANDARDS and SPECIFICATIONS

The scope of work shall be in conformity with the DPWH standards and specifications stated herein.

B.5 - PROJECT BILLBOARD/ SIGNBOARD

For the information and guidance of the citizenry about the on-going projects being undertaken by JHMC, standard project billboards (JHMC and COA) shall be installed on the vicinity of the project using the standard design as shown in the Plan. Billboard should be properly framed and installed in the most visible location within the vicinity of the project.

B.7(1) - OCCUPATIONAL SAFETY AND HEALTH PROGRAM

This Item shall be in accordance with the provisions, systems and procedures based in the approved and applicable Occupational Safety and Health Program by the Department of Labor and Employment. Appropriate Personal Protective Equipment (PPE), including all safety devices that are necessary during project implementation, shall be provided by the contractor.

B.9. – MOBILIZATION/ DEMOBILIZATION

Prior to mobilization of equipment and materials on site, the contractor shall coordinate with JHMC for the approved areas to be used for stockpiling of materials and parking of equipment on site. No construction materials or equipment should obstruct main access points within the vicinity of the project.

ITEM 401 - METAL RAILINGS

Handrails/ metal railing to be constructed shall be 50mm steel handrail, clean and rust-free. Concrete footing and dowel bars should be well prepared and poured according to plans and as stated. All steel pipes shall be accurately placed the position with proper spacing based on the approved plans.

Alignment of the handrails to be constructed should be straight and fully welded, furnished with paint after sanding or preparation of the connections to be even for the safety of the public. Railings shall be placed and then inspected and approved by the JHMC

representative before the placing of concrete begins of finalization of the layout. Materials placed in violation of this provision may be rejected and removal may be required.

ITEM 900(2) STRUCTURAL CONCRETE – 14 DAYS

Concrete shall consist of a mixture of Portland cement, fine aggregate, coarse aggregate, admixture when specified, and water mixed in the proportions specified or approved by the JHMC representative.

The class of concrete to be used is **Class A**. Only Type I Portland Cement shall be used unless otherwise provided for in the Special Provisions. Different brands or the same brands from different mills shall not be mixed nor shall they be used alternately unless the mix is approved by the Engineer.

Fine Aggregate shall consist of natural sand, stone screenings or other inert materials with similar characteristics, or combinations thereof, having hard, strong and durable particles.

Coarse Aggregate shall consist of crushed stone, gravel, blast furnace slag, or other approved inert materials (coralline or dolomites) of similar characteristics, or combinations thereof, having hard, strong, durable pieces and free from any adherent coatings. Water used in mixing, curing or other designated application shall be reasonably clean and free of oil, salt, acid, alkali, grass or other substances injurious to the finished product.

As work progresses, at least one (1) sample consisting of three (3) concrete cylinder test specimens, 150 x 300mm (6 x 12 inches), shall be taken from each seventy-five (75) cubic meters of each class of concrete or fraction thereof placed each day.

ITEM 902(1) – REINFORCING STEEL – DEFORMED (GRADE 40)

Steel reinforcements to be used shall be Grade 40 deformed steel bars, clean and rust-free. Minimum concrete cover for reinforcement is 50mm and 75mm for those exposed to soil/under earth. All steel reinforcements shall be accurately placed the position with proper spacing based on the approved plans.

Distance from the forms shall be maintained by means of stays, blocks, ties, hangers, or other approved supports. The use of pebbles, pieces of broken stone or brick, metal pipe and wooden blocks shall not be permitted. Reinforcement in any member shall be placed and then inspected and approved by the JHMC representative before the placing of concrete begins. Concrete placed in violation of this provision may be rejected and removal may be required.

ITEM 1003 - CARPENTRY AND JOINERY WALLS

The work under this Item shall consist of furnishing all required materials, unless stated to be provided by JHMC, fabricated wood work, tools equipment and labor and performing all operations necessary for the satisfactory completion of all carpentry and joinery works in strict accord with applicable drawings, details and this Specifications.

Nails, screw, bolts and straps shall be provided and used where suitable for fixing

carpentry and joinery works. All fasteners shall be brand new and of adequate size to ensure rigidity of connections.

ITEM 1014 – PRE-PAINTED METAL SHEETS

This item shall consist of furnishing all the required pre-painted metal sheet, materials, tools and equipment, unless stated to be provided by JHMC, in undertaking the proper installation complete as show on the Plans and in accordance with this Specification.

Before any installation work is commenced, the Contractor shall ascertain that the top face of the purlins is in proper alignment. Correct the alignment as necessary in order to have the top faces of the purlins on an even plane. Sheets shall be handled carefully to prevent damage to the paint coating.

Gutters, valleys, flashing ridge and hip rolls be fastened where indicated on the Plans by self-tapping screws or rivets.

ITEM 1027 – CEMENT PLASTER FINISH

This Item shall consist of furnishing all cement plaster materials, labor, tools and equipment required in undertaking cement plaster finish as shown on the Plans and in accordance with this Specification.

Mortar mixture for brown coat shall be freshly prepared and uniformly mixed in the proportion by volume of one (1) part Portland Cement, three (3) parts sand and one fourth (1/4) part hydrated lime. Finish coat shall be pure Portland cement properly graded Hydraulic Cement and mixed with water to approved consistency and plasticity.

Cement plaster finish shall be true to details and plumbed. Finish surface shall have no visible junction marks where one (1) day's work adjoins the other. Where directed by the Engineer or shown on the Plans vertical and horizontal groove joints shall be 25 mm wide and 10 mm deep.

ITEM 1032 – PAINTING, VARNISHING, AND OTHER RELATED WORKS

This Item shall consist of furnishing and applying all paint materials including pigments, thinners and mixed paints for steel and wooden structures; sampling, testing and packing; preparation of the surface and application of paint to structures.

Applicable paint on primed and prepped surfaces shall be used for the constructed structures. Paint shall not be applied during rain, storms or when the air is misty, or when, in the opinion of the Engineer, conditions are otherwise unsatisfactory for the work. Paint shall not be applied upon damp surfaces or upon metal which has absorbed heat sufficient to cause the paint to blister and produce a pervious paint film.

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

When called for on the Plans or in the Special Provisions, existing structures shall be given the two coats of field paint as stipulated.

ITEM 1046 – CHB NON-LOAD BEARING (INCLUDING RSB), 100 mm THICK

Concrete hollow blocks shall be standard machine fabricated and shall have fine and even texture and well- defined edges. Dimensions and tolerances shall be as individually specified on the Plans. Unless otherwise indicated on the Plans, masonry mortar shall be composed of one (1) part Portland cement, and two (2) parts fine aggregate by volume to which hydrated lime has been added in an amount equal to ten (10) mass percent of the cement.

Unless otherwise specified, the vertical and horizontal reinforcements for CHB shall be 10mm diameter at 400 for all wall thicknesses. Lap splices shall be 300 mm long (minimum).

Where CHB walls adjoin R.C. columns and beams provide dowels on R.C. column and beams prior to pouring to match CHB wall reinforcement size and spacing. Dowels shall be 600 mm long unless noted otherwise. Corners shall be protected from damage, with substantial board covers. Mortar or grout stains on masonry work shall be removed immediately. Any masonry work showing stains from mortar or concrete, or grout at completion of work, shall be replaced or the entire masonry surface sandblasted to provide uniform approved appearance.

ITEM 1047(1) – STRUCTURAL STEEL

The work will include the furnishing, fabricating, hauling, erecting, welding and painting of structural steel as shown on the Plans. Structural metals will include structural steel, rivet, welding, special and alloy steels, steel forgings and castings and iron castings. This work will also include any incidental metal construction not otherwise provided for, all in accordance with these Specifications, Plans and Special Provisions.

ELECTRICAL WORKS

The Contractor shall furnish all materials, labor and equipment for the installation of the complete electrical system of the proposed structure, including concealed conduct system (unless otherwise noted). Wires and all wiring devices for electrical lighting and power layout shall be in conformance with the approved plans/drawings.

All works under shall comply with the latest edition of the Philippine Electrical Code Rules and Regulations. Any apparent conflict between such shall be submitted to the Engineer/Architect for decision. All labor shall be done in the promptest and workman like manner for the full satisfaction of the Engineer/Architect and the Implementing Office. The Contractor shall complete the electrical system satisfactorily working. Equipment, labor and materials that are found unsatisfactory and defective prior to the issuance of final acceptance will be subjected for replacement, without additional charge or cost.