

Material Requirement

a. Full Louvered Metal Double Panel Door– D1

- Jamb: GAUGE #16 G.I
- Dim: 2.00m(W) x 2.47m(H)
- Louver: GAUGE # 18 G.1. PULL HANDLES (FRONT & REAR, ASTRAGAL, FLUSH BOLT
- Follow plan for details and location of doors.

b. Full Louvered Metal Double Panel Door– D2

- Jamb: GAUGE #16 G.I
- Dim: 1.60m(W) x 2.10m(H)
- Louver: GAUGE # 18 G.1. PULL HANDLES (FRONT & REAR, ASTRAGAL, FLUSH BOLT
- Follow plan for details and location of doors.

c. Full Louvered Metal Single Panel Door– D3

- Jamb: GAUGE #16 G.I
- Dim: 0.80m(W) x 2.10m(H)
- Louver: GAUGE # 18 G.1. PULL HANDLES (FRONT & REAR, ASTRAGAL, FLUSH BOLT
- Follow plan for details and location of doors.

Windows

Scope of Work

- The work covered by this Item shall consists of furnishing all aluminum powdered coated fixed glass windows, materials, labor, tools and equipment required in undertaking the proper installation as shown on the Plans and in accordance with this Specifications.

Material Requirement

a. Full louvered steel fixed window– W1

- Casement: Gauge #G. I
- Louver: Gauge #18 G.1 with provision for Exhaust Fan and wire mesh
- Dim: 2.20 m x 3.95 m
- Follow plan for details and schedule of windows.

b. Full louvered steel fixed window– W2

- Casement: Gauge #G. I
- Louver: Gauge #18 G.1 with provision for Exhaust Fan and wire mesh
- Dim: 2.00m x 0.50 m
- Follow plan for details and schedule of windows.

c. Full louvered steel fixed window– W3

- Casement: Gauge #G. I
- Louver: Gauge #18 G.1 with wire mesh
- Dim: 2.00 m x 0.50 m
- Follow plan for details and schedule of windows.

d. Full louvered steel fixed window– W4

- Casement: Gauge #G. I
- Louver: Gauge #18 G.1 with provision for Exhaust Fan and wire mesh
- Dim: 1.20 m x 0.50 m
- Follow plan for details and schedule of windows.

Division 9 – Finishes

09600 Flooring

Scope of Work

- This Item shall consist of furnishing all floor finishes, labor, tools, equipment and the satisfactory performance in undertaking the proper application of epoxy paint as shown on the Plans and in accordance with this Specifications

Material Requirement

- Use 200mm x 200mm Concrete Waffle Tile
- Apply plain cement floor finish.
- Provide tile adhesive.
- Apply the necessary tile grout.
- Provide the necessary floor topping to level the floor finish.
- Roof Deck to be waterproofed with Concrete Topping.
- Submit sample and layout of tiles for approval of CPDMO Project Architect/Engineer and End-users.

Construction Requirements

For Plain Cement Finish Flooring

- Provide the necessary floor topping to level the floor finish.
- For floor termination and junction of floor finishes, refer to details as shown on plans.
- Contractor should ensure proper leveling of floor substrate prior to the inst. of floor finishes.
- Contractor should ensure proper installation, termination and junction of finishes to existing wall and floors as per building property standards.
- Submit sample of tiles for approval of CPDMO Project Architect/Engineer and End-users.

09700 Wall Finishes

Material Requirement

- Use 150mm THK. CHB Wall Plaster Painted Finish
- 100mm THK. CHB Wall Plaster Painted Finish

09910 Paints and Coatings

Scope of Works

- This Item shall consist of furnishing all paints, enamels, varnishes and other products to be used including labor, tools and equipment required as shown on the Plans and in accordance with this Specification.

Materials Requirements

- Specified materials shall be delivered to the job site bearing manufacturers' name, brand name, type of paint, analysis showing all important constituents of the paint, color of paint and instructions for thinning.
- Specified item and/or its components shall be handled in such manner as to prevent damage. The same shall be properly protected from harmful elements or damage by other work prior to its incorporation into the Project.

- Store materials in a well ventilated space designated for the storage and mixing of paint. Materials delivered to the site shall be properly stored as to minimize exposure to extremes of temperature.

Quality Assurance

- The University reserves the right to subject material samples to test at his expenses. If such material tests do not meet the specified standards, the cost will be charged to the Contractor.
- Number of coats, where specified, is minimum. Contractor shall apply as many as required to meet specifications for solid, uniform appearance. Where film thickness in mils is specified, spot checks will be made to determine compliance with specified thickness.

Submittals

- Submit 2 samples of each and every color or finish (including all coats). Where the same color or finish is to be applied over different materials, samples of each shall be submitted on different materials, where practical.
- Sample size shall be a minimum of 150 mm x 150 mm (6" x 6").

Protection

- Paint materials shall be properly protected from damage, providing for adequate storage space. Take all necessary precautions to prevent fire, such as keeping oily rags in U. L. approved metal containers or removing from building at the end of each day's work.
- All work fittings, furniture, etc., are to be suitably protected during execution of the work. Splashes on floors, walls, etc. are to be removed during progress of work and on the whole, left clean and perfect upon completion.
- No exterior or exposed painting shall be carried out under adverse weather conditions, such as extremes of temperature, during rain, fog, etc., or if there is excessive dust in the air.

Lead Content and Warning Labels

- The material manufacturer shall state the lead content on the label of any paint product container based on metal percentage of total solids.
- The label of any paint product exceeding 0.5% lead content shall include the following statement: "This paint contains more than 0.55 lead content and shall not be used on surfaces accessible to children."

Repair of Defective Work

- All defective or damaged work shall be restored to initial condition.
- All voids, cracks, nicks, etc., will be repaired with proper patching material and finished flush with surrounding surfaces.
- Marred or damaged shop coats on metal shall be spot-primed with appropriate metal primer.
- Defective or damaged items and/or components, which cannot be repaired or restored to initial conditions, shall be removed and replaced to the satisfaction of the Architect at no additional cost to the Owner.

Cleaning

- Upon completion of the building, the Painting Contractor shall remove all paint spots from all finished work, remove all empty cans and leave the entire premises free from rubbish or other debris caused by his work. He shall remove his

equipment from the premises. He shall clean off all glass free from paint spots and smears and shall present the work clean and free from all types of blemishes.

Products

General:

- Materials are specified to establish the standards of grade and quality desired for the work, principal pigments and vehicle types and minimum percentage of solids content by volume.
- The products of Manufacturers not named may be submitted for use provided they are equal in quality and grade to the primers and finishes specified as approved by the Architect. If substitute paint products are desired, a statement shall be submitted to the Architect giving the Manufacturers name, proposed primer and finish for each paint system, analysis for each type of paint, and the use or uses intended. Failure to submit such statements will be cause for rejection.
- In cases where the name of a brand or supplier is mentioned under a particular specification, only paint or primer of that manufacturer is acceptable and no substitution shall be permitted on the grounds that the brand specified is not available in the local market. Materials of one manufacturer shall not be applied over that of another, except in the case of shop primer coat.

Color, Gloss and Texture:

- Refer to Finish Schedule. All work is to be completed without deviation from these unless written approval is received from the Architect. No extra cost shall be allowed because of the color variety scheduled.

Execution

General:

- Work-in-place, on which specified work is to be applied, shall be examined to insure that conditions are satisfactory for application of specified materials. Any defect, which may influence satisfactory completion of specified work, shall be report, in writing, to the Architect. Absence of such notification will be construed as acceptance of work-in-place.
- Do not apply exterior paint in damp or rainy weather or until surfaces have thoroughly dried from the effects of such weather.
- Before start of painting, remove finish hardware, accessories, plates, lighting fixtures, and similar items, as approved by the Architect, except U.L. Labels on Fire Door and Frames, which must not be removed. Use only workmen skilled in the applicable building trade for removal and reinstallation of finished item in-place.
- The following items shall be masked or protected with suitable covering:
 - Sealing, caulking and glazing compounds (unless otherwise directed by the Architect).
 - Glass.
 - Gauges, thermometers and other recording devices.
 - Moving parts of machinery and other mechanical equipment - such as: shafts, couplings, valve stems, and the like.
 - Coated decorative sheet metal work.
 - Sprinkler heads and the like.
 - U.L. Labels

Surfaces Preparation As Applied To Various Substrate

(a) Wood

New Surface:

- Surface to be painted should be clean and dry, free from oil, grease, dust, dirt, contaminants and all loose girt or mortar; sand rough edges remaining, countersink nail heads for putty applications.
- Dust off surfaces completely then wipe with a clean rag.

(b) Metal

New Surface:

- Surface to be painted should be clean and dry, free from oil, grease, dust, dirt, wax, solder flux, and other contaminants by wiping with mineral spirits or paint thinner.
- Remove rust by wire brushing, sanding or scraping.
- Where maximum performance of protective coatings is necessary (e.g. Industrial Plants), prepare surface by blast cleaning.

(c) Concrete:

New Surface:

- Surface to be painted should be clean and dry, free from oil, grease, dust, dirt, contaminants and all loose girt or mortar.
- Treat with masonry neutralizer. Mix (1) liter of B-44 with (16) liters of water. Apply liberally by brush and let dry overnight.
- Rinse with water to remove white crystals that form on the surface. Let dry.

Paint Application

- General: Specified work shall be done by skilled painters in a workmanlike manner. All spaces shall be broom-cleaned before painting is started. Surface to be painted shall be clean, dry, smooth and adequately protected from dampness. Each coat of paint shall be allowed to dry at least twenty-four (24) hours before succeeding coat is applied. Finish work shall be uniform, of approved color, smooth and free from runs, sags, defective coverage, clogging or excessive flooding. If surfaces are not adequately covered, as determined by the CPDMO Architect/Engineers/Inspectors, further coat shall be applied to the satisfaction of the CPDMO Technical Group. Edges of paint adjoining other materials or colors shall be sharp and clean without overlapping.
- Paint Mixing: Paint mixing and thinning shall be done only in accordance with directions of Manufacturer. Paint must be strained free from all skin and extraneous substances and shall be thoroughly mixed in a clean container during use.
- Methods of Application: Exterior first coats and Interior first coats shall be applied by brush, except on shop-primed surfaces, which shall be applied by brush or roller. All primer shall be applied by brush. Succeeding coats over field-primed surfaces and all coats over shop-primed surfaces may be applied by brush roller or spray. Distemper brushes are to be of approved type and less than 15 cm In width. Rollers for applying enamel shall have a short nap. Spray equipment shall be as recommended by the manufacturer of the paint used. Areas inaccessible to spray painting shall be coated by brushing or suitable method.
- Coating: Consecutive coats of paints are to be slightly differing tints except in the case white. Each coat shall be allowed to harden before the next is