



CAMPUS PLANNING, DEVELOPMENT & MAINTENANCE OFFICE

CPDMO

UNIVERSITY OF THE PHILIPPINES MANILA

The Health Sciences Center

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CPDMO10000864

REFERENCE NO. : **WD215APP08082016**

PROJECT TITLE : **REPAIR OF LEDGES AND LEAKAGE**
College of Dentistry
University of the Philippines Manila

SUBJECT : **SCOPE OF WORKS AND SPECIFICATIONS**

Division 1 - General

Section 01000 General Requirements

1. The Contractor shall furnish all materials, equipment, tools, apparatus, appliances, accessories, transportation, labor and supervision required for the complete construction of the subject project, as shown on the drawings and called for in these specifications, ready for use.
2. All Contractors submitting proposal for this project shall first examine the site. All proposals shall take into consideration all such conditions that may affect the work under this contract. The specifications and plans shall form part as one. Anything mentioned on plans and not mentioned on the scope of work and specifications and vice versa shall be properly consulted to the CPDMO Project Architect/Engineer for clarification. Any work or materials not in accordance with the drawings or specifications shall be replaced with new at the Contractor's expense.
3. The Contractor shall coordinate his work with all parties to ensure proper phasing or schedule of works. The Contractor shall engage under him, a registered Engineer or Architect to supervise his work. He shall remain at all times in the construction site.
4. A logbook shall be available at the site. It shall contain the daily activities in the site, including weather condition, delivery, manpower and other matter pertaining to the condition of the project. It will also serve as data for Contractor and the Project Inspector.
5. Identification Card of construction workers and engineer/representative shall be supplied by CPDMO with corresponding fees; it should be worn at all times while inside the building/campus premises. Those without IDs shall not be allowed to enter for security purposes.
6. No alteration or addition that will result in an additive or deductive cost change from the contract shall be allowed without the approval of the Chancellor / Vice Chancellor for Administration.

7. Complete specifications with product sample shall be submitted by the contractor to CPDMO for evaluation. Inspection of the Project Architect/Engineer in-charge of CPDMO and End-users shall be required prior to installation of any item/material on the work.
8. Regular coordination meeting shall be conducted with CPDMO, Contractor and End-user for proper project monitoring.
9. Existing condition of the work site shall be documented by the contractor and photos shall be taken before commencement of work to ensure such status. Any damage on the area s due to the contractor's on going work shall be refurbished at his expense.
10. The Contractor shall provide a complete copy of "As built plans" of the project/unit concerned which shall include all the civil, architectural, plumbing, electrical and other related layouts in 20" x 30" original sheets. It should be properly drawn indicating all the specifications, layouts, tables and necessary data. An initial layout should be submitted in a B4 sheet for checking and approval of Project Architect/Engineer. Final "As built plans" shall be submitted with soft and hard copies.
11. After completion of all works, the Contractor shall promptly remove from the premises all rubbish, trash, debris, and all superfluous building materials and restore all areas that were damaged as affected by the works and leave the site clean to the satisfaction of the Project Inspector or his representative and End-user.
12. All materials removed from the unit shall be properly documented prior to turn-over to the End-user for proper safe keeping.

Section 02500 Utility Service

Utility Service/Consumption:

- Provision of electric and water meter shall be included in the quotation to be charged to the contractor's overhead. All utility consumption shall be provided with meters to limit the usage of such during work period. Payments and bills shall be made thru the Cashier Office after the work presenting the statement of account issued by Accounting upon recommendation of the Chief of CPDMO.

Division 2 – Site construction

Section 02200 Site Preparation

Mobilization/Demobilization

- This work includes mobilization process, provision for warning signs, including barricades, temporary facilities, temporary fences, warning lights and similar safeguards shall be provided by the Contractor as they required for protection of his manpower and others during the working life of his project.
- Demobilization procedure shall include clearing o the affected areas from all rubbish, trash, debris, and all superfluous building materials and restore all areas that were damaged as affected by by the works and leave the site clean to the satisfaction of the Project Inspector or his representative and End-user.

Section 02230 Site Clearing

- Clear the area from all obstructions or as affected by the works, except those structures indicated on the drawings or designated by the Project/Engineer and End-users to be left standing. It shall be properly protected from incidental damage due to work by the section of suitable barriers upon approval of the project Architect/Engineer and End-users.
- The Contractor shall be responsible for the accuracy of his work and any necessary chiseling, drilling, coring, cutting and patching or other works required due to plugged or misplaced conduit shall be done at the expense of the Contractor including the restoration on the damaged part of the building finish.

Division 7 – Thermal / Moisture

Section 07001 Waterproofing System

Materials

Use waterproofing materials with approved specifications, as follows:

Technical Data

Tested at:

-40°C	8 hrs
-20°C	16hrs
20°C	16hrs
120°C	8hrs

After 10 rounds, still normal.

Stick force	18kg/cm ²	(JIS.K6848)
Pulling-resistance force	29 kg/cm ²	(JIS.K6301)
Tensibility Ratio	Above 450%	(JIS.K6301)
Intensity of Divulsion	18kg/cm ²	(JIS.K6301)
Permeability test	13.7mg/cm ² 24 hrs.	(JS.Zo28)
Pressure permeability	(+) Positive pressure 5kg/cm ² 24hrs. No dAnk	
Appearance	(-) Negative pressure 3kg/cm ² 24hrs. No dAnk	
Main Content	Cream-colored ropy liquid	
Solid Content	Multi-co polymerized resin	
Viscosity (C.P.S.)	73%	
P H	25,000	
Proportion	5-6	
Electric Charge	1.2	
M.F.T.	None	
*Durability	0°C	
*Daubing Volume	Excellent	
	1.2 - 2.0g/m	(Depends on the purposed)

Application

- Surfaces to which waterproofing membrane are to be applied shall be free from foreign matter, clean and smooth, dry and free from holes and projections. The concrete contractor shall perform surface preparations. Immediately before application of waterproofing membrane, surfaces shall be cleaned. Application will not be permitted in wet weather.

- The Contractor shall submit to the Project Architect/Engineer samples of materials to be used for approval before any work shall start. Waterproofing materials shall be delivered to the site in the original sealed containers or packages bearing manufacturer's name and brand designation.
- Waterproofing should be applied on wall base at least 300 mm height and/or higher. Only qualified Contractor trained and approved by the manufacturer shall perform all works under this Section.
- Provide additional coating or application as per recommendation to consolidate the substrate.
- Confer on manufacturer's specifications and details before applications and upon verifications with CPDMO Project Architect/Engineer and End-users.
- Follow manufacturer's specifications and allow only the skilled manpower to apply the necessary materials.
- A roller, brush or spray gun as per requirement should do application.
- Flood testing should be done at a minimum of twenty-four (24) hours.
- Testing result after 1 week as follows:
- Warranty period on product and application should be at minimum of ten (10) years.
- All works to be done should be inspected and approved by the Project Architect/Engineer and End-users.
- Provide Concrete topping slope to drain at 1% to ensure leak proof areas.

Division 9 - Finishes

Section 09250 Gypsum /Fiber cement Board

Scope of works

- The work to be done under this Item consist of furnishing all required materials, fabricated woodwork, 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 these Specifications.

Ceiling

Materials

- Ceiling: 6mm thk fiber cement
- Fastening materials

Application

- Secured them using suitable anchoring method.
- Follow design and layout based on existing reflected ceiling.
- Provide all the necessary accessories for proper installation.

Section 09910 Paints

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.

Surface Preparation

- No painting works shall be done under conditions that may jeopardize the quality or appearance of the painting or finishing.

- All surface to receive paint should be cleaned, primed and in proper condition.

Materials

- All interior painting materials to be used shall be odor-less antibacterial /hygienic protection semi-gloss paint finished.
- All exterior painting materials to be used shall be dirt resisting exterior latex semi-gloss paint finished.
- Submit color scheme to the Project Engineer/Architect in-charge and End-users for approval.

Application

- Painting works for all steel section, concrete, board and related areas. Topcoat shall be of the approved color by CPDMO and End-user; this may vary from two to three tones.
- Paint s when applied by brush shall be non-fluid, thick enough to lay down an adequate film of wet paint. Brush marks shall flawed out after the application of paint.
- Paints prepared for application by roller must be similar to brushing paint. It must be non-sticky when thinned to spraying viscosity to break up easily into droplets.
- Adequate workmanship shall be done on this part of the finishing works. The Contractor at his expense shall apply additional coating if the painted areas will not be satisfactory to the Project Architect/Engineer and End-users.

Restriction

- Color schemes and other paint material sample required by these specifications and/or by the Project Architect/Engineer and End-users shall be submitted subject for approval by the contractor at his expense.
- After all work have been done, restore and repaint all affected areas due to the installation works or related works to the same color scheme of the area.

Section 09999 Paints Restoration

- Provide all the repair works on all affected areas.

GUARANTEE

The Contractor shall guarantee all works under this contract to be free from any technical, mechanical and electrical defects and shall replace and repair to the satisfaction of the Project Architect / Engineer and/or to the Chief of CPDMO on any part or portion of the work which may fail within a period of one (1) year after the final acceptance of the system provided such failure is due to defects in the material or workmanship.

COMPLETION PERIOD

The Contractor is given **Ninety (90) calendar days** to execute the renovation works including the installation of all system requirements. The Contractor shall coordinate to the CPDMO Inspector and End-users for the schedule of testing of systems and other related job.

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