



REF. NO. : **W184NPG02022016**

PROJECT TITLE : **PROPOSED RETROFITTING OF MEDICAL LIBRARY**  
College of Medicine  
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 the premises for security purposes.
6. No alteration or additional work that will result in an additive or deductive cost change from the Contract shall be allowed without the approval of the chancellor.
7. Complete specifications with product sample shall be submitted by the contractor to CPDMO and end-user for evaluation. Inspection of the Project Architect/Engineer in-charge shall be required prior to installation of any item/material on the construction.
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 areas 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 construction 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 01510 Temporary Facilities**

- Provide Temporary enclosures/canvass on all areas for building protection. Such coverings shall be adequate enough to cover all the building facilities throughout the span of project.
- Charges for the restoration or replacement of any damage facility, equipment, material and the like shall be made on the Contractor due to his negligence in providing suitable temporary covering.
- Provide the appropriate scaffoldings, board ups, safety nets and related items to ensure proper installation of all framing system and protection on the area, at the expense of the Contractor as its basic equipment.

#### **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 are required for protection of his manpower and others during the construction life of this project.
- Demobilization procedure shall include clearing of the affected areas from 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.

##### **Section 02230 Site Clearing**

- Clear the area from all obstructions or as affected by the construction works, except those structures indicated on the drawings or designated by the Project Architect/Engineer to be left standing. It shall be properly protected from incidental damage due to construction works by the erection of suitable barriers upon approval of the Project Architect/Engineer.
- 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.

### **Section 02290 Site Monitoring**

- Site monitoring shall be a must to the contractor for the effective implementation of the project. Any discrepancies on plans and actual site conditions shall be properly coordinated with the Project Architect/Engineer concerned for verification.
- Regular coordination meeting shall be done between the contractor or its representative and the Project Architect/Engineer concerned at CPDMO.

### **Section 02500 Utility Services**

#### *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 working period. Payments of bills shall be made thru the Cashiers Office after the renovation period presenting the statement of account issued by Accounting upon recommendation of the Chief of CPDMO.

### **Division 3 – Concrete**

### **Section 03700 Concrete Rehabilitation**

#### **Scope of Work**

- The work covered by this Item shall consist of installing Carbon Fiber Reinforcement.
- Submit sample of Carbon Fiber to be installed for approval of CPDMO.

#### **Material Requirements**

Minimum Carbon Fiber Reinforcement properties as follows:

- Areal Weight: 600 g/m<sup>2</sup>
- Thickness = 0.333 mm
- Tensile Strength = 4,900 MPa
- Tensile E-modulus = 230GPa

#### **Construction Requirements**

- Follow plan for retrofitting details
- Line markers must be drawn prior to laying of Carbon Fibers

#### **NOTE**

The foregoing list of item of works does not in anyway limit the responsibility of the Contractor to perform all other works necessary for the completion of the project, Proposed Retrofitting of Medical Library

#### **COMPLETION PERIOD**

The Contractor is given **Sixty (60) calendar days** to execute the renovation works including the installation 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.

Prepared by:

  
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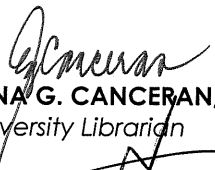
  
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 02 MAR 2016



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CPDMO



U.P. MANILA

**BILL OF QUANTITIES - BID PROPOSAL FORM**

PROJECT TITLE : **PROPOSED RETROFITTING OF MEDICAL LIBRARY**  
 College of Medicine  
 University of the Philippines Manila

NAME OF BIDDER : \_\_\_\_\_

ADDRESS : \_\_\_\_\_

CONTACT NO(S). : \_\_\_\_\_

TOTAL LUMP SUM BID : \_\_\_\_\_ **PhP** \_\_\_\_\_

ITEM	QTY.	UNIT(S)	DESCRIPTION(S)	UNIT COST	TOTAL COST
<b>1.00 GEN. REQ'Ts. / SITEWORKS</b>					
1.10 Mobilization/Demobilization					
	1.00	lot	Permits and Licences	PhP _____	PhP _____
	1.00	lot	Mobilization / Demobilization	_____	_____
			<b>Sub-Direct Cost</b>		<b>PhP</b> _____
1.20 Temporary Facilities and Utilities					
	1.00	lot	Temporary Facility/Field Office/ Warehouse	PhP _____	PhP _____
	1.00	lot	Formworks and Scaffolding	_____	_____
	1.00	lot	Temporary Electricity & Water Consumption	_____	_____
			<b>Sub-Direct Cost</b>		<b>PhP</b> _____
1.30 Dismantling & Restoration works					
	1.00	lot	Dismantling and restoration of existing glass partitions	PhP _____	PhP _____
	4.44	sqm	Removal of Beam Plastering	_____	_____
	4.44	sqm	Beam Plastering	_____	_____
	1.00	lot	Scaffolding	PhP _____	PhP _____
			<b>Sub-Direct Cost</b>		<b>PhP</b> _____
			<b>Total for General Requirements / Siteworks</b>		<b>PhP</b> _____
<b>2.00 RETROFITTING WORKS</b>					
2.10 Surface Preparation					
	4.44	sq.m	Beams and Girders	PhP _____	PhP _____
			<b>Sub-Direct Cost</b>		<b>PhP</b> _____
2.20 Retrofitting of Beams and Girders					

4.44 sq.m

Supply and Installation of Carbon Fiber Reinforcement (t=0.333mm, Wt=600gsm)

PhP

PhP

**Sub-Direct Cost**

PhP

**Total for Retrofitting Works**

PhP

**SUMMARY**

1.00 GEN. REQ'Ts. / SITEWORKS

PhP

2.00 RETROFITTING WORKS

**Total Materials and Labor Cost**

PhP

Overhead Cost

@ \_\_\_\_\_ %

Tax

@ \_\_\_\_\_ 12%

**TOTAL PROJECT COST**

PhP

PREPARED BY

\_\_\_\_\_

Signature over Printed Name & Position/Designation

\_\_\_\_\_ Date