



CAMPUS PLANNING, DEVELOPMENT & MAINTENANCE OFFICE
UNIVERSITY OF THE PHILIPPINES MANILA
The Health Sciences Center
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PROJECT TITLE : **PROPOSED UPGRADING OF P3mm VIDEO WALL AT COLLEGE OF NURSING AUDITORIUM**
COLLEGE OF NURSING
UNIVERSITY OF THE PHILIPPINES - MANILA

SUBJECT : **TECHNICAL SPECIFICATION**

Division 1 - General

01000 General Requirements

1. The Supplier 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 Suppliers 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 Supplier's expense.
3. The Supplier shall coordinate his work with all parties to ensure proper phasing or schedule of works. The Supplier 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 Supplier 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 Supplier 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, Supplier and End-user for proper project monitoring.
9. Existing condition of the work site shall be documented by the Supplier and photos shall be taken before commencing of work to ensure such status. Any damage on the area s due to the Supplier's on-going work shall be refurbished at his expense.

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10. The Supplier 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 A3 sheet for checking and approval of Project Architect/Engineer. Final "As built plans" shall be submitted with soft and hard copies.
11. The Supplier shall promptly remove from the premises all rubbish, trash, debris, and all superfluous building materials weekly. After the completion of all works, 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.

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 restoration or replacement of any damage facility, equipment, material and the like shall be made on the Supplier 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 of the area, at the expense of the Supplier as its basic equipment.

Division 2 – Site construction

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 Supplier 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.

Division 10 – Specialties

Section 10100 LED Wall

Supply and Installation of P3mm LED Indoor Full Color Display

Led Parameters:

- Brightness: 1000 nits
- Viewing Angle: Horizontal 170 deg, Vertical 120 deg
- Best Viewing Distance: 3mm-100mm
- Brightness Control: 256 level
- Refresh Frequency: >3840 hertz
- Gray scale: 16bit
- Display Size: 2.880x4.032m
- Driving Mode: 1/32 scan
- Input Power Frequency: 50 or 60 hertz
- Input Voltage: 110/220V

- Blind Spot rate: >1/10000
- Lifetime @ 50% Brightness: 100,000 hours
- Ingress Protection: Front: IP43
- Operation Humidity: 10%-90%
- Control Distance: Cat5e 150m – Multi fiber 500m
- Brightness Control: 256 level

Product Specification

- Pixel Pitch: P3
- LED TYPE: SMD2121
- Pixel Density: 62500 dot/sqm

LED lamp

- RED : SMD 3 in 1 RGB: 625-630nm/1000mcd
- GREEN : SMD 3 in 1 RGB: 520-525nm/2000mcd
- BLUE : SMD 3 in 1 RGB: 465-470nm/450mcd

UNIT MODULE

- Module Dimension: 192mmx192mm
- Module Resolution: 64x64
- Module Weight: 180grams
- Cabinet: Iron Steel
- Module Size: 0.0625 sqm
- Power Consumption: Max. 30, Ave. 12
- Maintenance: Back Access
- Power Max: 820W/sqm
- Power Ave: 400W/sqm

Screen Parameters

- P3 Indoor LED screen body: 2.88xm4.8 m= 13.824 sqm
- Control System: Receiving Card – 15 pcs
- LED software: LED software – Free

Division 16 – Electrical

16080 Testing of System

- Complete testing of the system involved in operation and provision of all system apparatus for making test and guarantee for a period of one (1) year after acceptance of the project and shall agree to repair and make good at his expense.

16090 Restoration and Repair

- Restoration and repainting of damaged walls, windows, ceiling and exposed conduits shall be the Suppliers liability.

NOTE

The foregoing list of item of works does not in any way limit the responsibility of the Supplier to perform all other works necessary for the completion of the project, PROPOSED UPGRADING OF P3MM VIDEO WALL AT COLLEGE OF NURSING AUDITORIUM, University of the Philippines, Manila

GUARANTEE

The Supplier 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 Supplier is given **Sixty (60) Working days** to supply, deliver and installation all system requirements. The Supplier shall coordinate to the CPDMO Inspector and End-users for the schedule of testing of systems and other related job.

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