



CAMPUS PLANNING, DEVELOPMENT & MAINTENANCE OFFICE
UNIVERSITY OF THE PHILIPPINES MANILA
The Health Sciences Center
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PROJECT TITLE : **SUPPLY AND INSTALLATION OF LABORATORY FURNITURE**
2nd Floor, Peptidomics and Natural Products Research,
Gusaling Andres Bonifacio
College of Arts and Science
University of the Philippines Manila

SUBJECT : **SCOPE OF WORKS AND SPECIFICATIONS**



CPDMO10002719

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 supply and installation 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 / Contractor's expense.
3. The Supplier shall coordinate his work with all parties to ensure proper phasing or schedule of works. The Supplier/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 Supplier/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 Supplier 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. 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.
9. Regular coordination meeting shall be conducted with CPDMO, Supplier and End-user for proper project monitoring.
10. After completion of all works, the Supplier 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.
11. All materials removed from the unit shall be properly documented prior to turn-over to the End-user for proper safe keeping.

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 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.

02290 Site Monitoring

- Site monitoring shall be a must to the supplier 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 supplier or its representative and the Project Architect/Engineer concerned at CPDMO.

02230 Site Clearing

- Clear the area from all obstructions or as affected by the supply and installation 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 supply and installation works by the erection of suitable barriers upon approval of the Project Architect/Engineer.

02500 Utility Services

Utility Service/Consumption

- Provision of electric and water meter shall be included in the quotation to be charged to the Supplier's/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 12 – Furnishings

12300 Manufactured Casework

General

All casework shall be of modern design and constructed in accordance with the best practices of the wood laboratory furniture industry. Construction and design will result in "built-in" installations of cabinetry that have the appearance of flush overlay construction without protuberances.

Standard Material Specifications

LABORATORY SIDE TABLE WITH SINK - ELEV. 1A & 1B

Dimension: 4200mm, 1600mm(L)x600mm(W)x900mm(H)

* Countertop: 16mm thick, Solid Phenolic Resin

16mm thick, acid (Tested under 49 chemicals/concentrations listed by SEFA), heat (Max of +180°C or 356° F for 20 min.), stain, scratch (≥ Rating under EN 438), Impact (≤10mm under EN 438), anti-static, anti-microbial (IMSL & ISEGA certified) and chemical resistant Solid Phenolic Resin counter

16mm thick, acid, heat, stain, scratch anti-static, anti-microbial and chemical resistant Solid Phenolic Resin counter top

Certifications / Requirements:

- a.) ISO 14001 and GREENGUARD certified.
- b.) ISML certification for hygiene and anti-microbial performance for 24 hours at 35°C under a RH of >95% and ISEGA certificate for conformity.
- c.) Met the highest standards for UL classified/labeled for ASTM-84, fire rated, anti static materials DIN SI 953 & DIN 482, BEES listed, and SEFA 8/1998 chemical resistance testing.
- d.) Complies with the European and International Testing Standards ENV 13419-1, ENV 13419-3, ISO 16000-3, ISO/DIS 16000-6 in its latest versions.
- e.) 5. Countertop should at least have 8-10 colors to choose from.
- f.) Letter of authorization and Certificate of Product Authenticity from the countertop manufacturer.
- g.) Phenolic Resin Technical Data on chemical resistance to acids, bases, salts halogens, organic chemicals, solvents and biological Laboratory stains under 24 hours test with corresponding test result based on SEFA (Scientific Equipment & Furniture Association) as well as the main reagents from the PSI or any American and European Testing
- h.) Counter top test on material properties with corresponding test method on test result under En, STM and

*** Base Cabinets/Door Panels: Type: "Post-formed"**

- * With laminated finished based cabinet with breakdown as follows:

base cabinet@4200mm-length

- * Two (2) units one swing out door cabinet with pullout drawer in hand grab type handle.
- * Two (2) units leg rooms with pullout drawers in hand grab type handle.
- * One (1) unit sink cabinet with two swing out doors and fixed panel.
- * One (1) unit acid resistant polypropylene sink bowl complete with traps and drain fittings
- * One (1) unit gooseneck water faucet
- * One (1) unit acrylic pegboard with polypropylene peg sticks
- * Two (2) units two gang electrical outlets.

base cabinet@1600mm-length

- * One (1) unit sink cabinet with two swing out doors and fixed panel.
- * One (1) unit acid resistant polypropylene sink bowl complete with traps and drain fittings
- * One (1) unit gooseneck water faucet

EMERGENCY SHOWER AND EYEWASH STATION

Emergency Shower

- * Rod operated emergency shower with self-draining shower head.
- * With "stay open" ball valve with high flow rate
- * With strong wall flange and lead-in
- * With strong construction - all stainless steel, type 304
- * Wall Mounted in brass with chemical resistance, stainless steel, with shelf draining shower head, water inlet at the top or bottom

Emergency Eye Wash

- * Hand operated eye wash
- * With strong construction - stainless steel type 304
- * With "stay open" ball valve with high flow rate
- * With soft rubber cups for protection of the eyes

Construction Method

- Top quality cabinetry to be ensured by the use of the proper machinery, tools, dies, and skilled workmanship in accordance with currently established standards of the laboratory furnishings industry. All cabinets and components are to be assembled utilizing jigs and fixtures as necessary to guarantee interchangeability of components between cabinets of like size.

• NOTE:

The foregoing list of item of works does not in anyway limit the responsibility of the Supplier to perform all other works necessary for the completion of the project, Supply and Installation of Laboratory Furniture at Peptidomics and Natural Products Research ,Gusaling Andress Bonifacio, College of Arts and Science.

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 **Ninety (90) Calendar days** to execute the supply of all laboratory furniture including the installation of all system requirements. The Supplier shall coordinate to the CPDMO Inspector and End-users for the schedule of final turn-over and other related job.

Prepared by:


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