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 & 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. 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 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, Contractor and End-user for proper project monitoring.

10. 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.

11. All materials removed from the unit shall be properly documented prior to turn-over to the End-user for proper safe keeping.

12. 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

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 02220 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 02550 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.

Section 2230 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 3 – Doors and Windows
Section 08590 Doors/Windows Restoration/Rehabilitation
Doors (D-1)
- Rehabilitation, restoration and repainting.
- Provide necessary sound barrier i.e. tape, sealant, strips as to no gap between door and wall/floor.
- Verify Project Architect/Engineer.

Windows (W-1) (2.00m x 1.84m)
- 6mm thk. Double glazed tempered clear glass casement/fixed glass with 1.5mm thk frame in aluminum powdered coated finish including accessories
- Follow new window layout
- Verify Project Architect/Engineer.

Division 4 – Finishes
Section 09700 Wall Finishes
Acoustic Insulation
- Supply and installation of acoustic insulation materials on the specified areas per design of CPDMO.
- Samples shall be submitted to the Project Architect/Engineer and End-users for approved as to the color, texture and quality.

Section 09910 Paints
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 and in proper condition. Wood works shall be sandpapered and dusted clean.
- Materials
- All painting materials to be used shall be similar or approved equivalent.
- Submit color scheme to the Project Engineer / Architect in-charge for approval.
- Application
- Interior surfaces shall be gloss finish; all fabricated items shall be duco finish. All new areas shall be properly primed, existing areas shall be repainted in two coats providing all the necessary patching up of uneven areas.
- Top coat shall be of the approved color by CPDMO and End-users. Painting system may vary from two to three coats.
- Paints when applied by brush shall be non-fluid, thick enough to lay down an adequate film of wet paint. Brush marks shall be flown 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. Additional coatings shall be applied by the Contractor at his expense if the painted areas will not be satisfactory to the Project Architect/Engineer and End-users.

Restrictions
• 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 at the expense of the Contractor.
• 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 building.

Section 09999 Paints Restoration
• Provide all the restoration works and rehabilitation on all affected areas to follow existing features and assembly.

Division 15 – Mechanical
Section 15700 Air – Conditioning Equipments
Air-conditioning units
• Roughing in for air conditioning.

Division 16 – Electrical
Workmanship and Materials
• All works shall be done in accordance with the requirements of the latest edition of the Philippine Electrical Code and National Safety Code. Nothing contained in these specifications or shown on the plan shall conflict with the requirements of these Codes, any discrepancies should be consulted to the Project Inspector / Electrical Engineer.
• All materials and equipment to be used and installed hereunder shall be of the approved type bearing the stamp or approval of the proper authorities concerned. Locally made or constructed materials shall first be approved before installation.
• All works shall be done in workmanlike manner and should present a neat and mechanical appearance when completed.

Plans
• The accompanying drawings shall indicate the general arrangement of the equipment, outlets and other works. When it is necessary to deviate from the arrangement indicated on plans in order to meet the structural conditions, such deviation shall be made at the expense of the Contractor and upon approval from the Project Inspector / Electrical Engineer.
• The outlets and circuit breakers shown on the plan are diagrammatic and approximately correct as to location. Minor changes shall be made through the Contractor at his own expense. The exact location of all outlets and switches shall be determined by the Project Inspector/Electrical Engineer and the same shall be located accordingly. The Contractor shall be responsible for the accurate location of all outlets with respect to doors, partitions, water pipes, cabinets and other facilities.

16050 Basic Electrical Materials and Methods
Conduit System
• RSC pipe, “Nichi”, polyvinyl conduit (PVC) pipe, “Neltex” or “Moldex” brand is primarily required for this work especially on the distribution of cable layout. Conduit runs shall be well supported especially on ceiling and slab. All conduits placed on
walls and partition shall be embedded, exposed layout will not be allowed. Conduit ends shall be provided with an end bell or adapter with locknut and bushing. All joints shall be applied with Neltex polyvinyl cement. Conduit shall enter knockouts squarely. Locknuts and bushing shall be used at termination of conduits in outlets, pull or junction boxes, panels and cabinets. Locknuts shall be screwed tight. Bends and offsets shall be avoided if possible, but when necessary it shall be made with an approved field bend or pipe / conduit bending machine. The use of pipe tee or vice bending conduits will not be permitted.

Restrictions

- Supply and installation of all material not shown in the drawing nor mentioned in this specification but necessary for the completion of the construction works shall be included. Coordination with CPDMO Project Inspector should be done for proper installation of all wiring systems.

16090 Restoration and Repair

Restoration Works

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

16140 Wiring Devices

Wiring Devices

- All wiring devices to be used hereunder shall be new and of approved type. All wall switches shall be top-action quiet-matic type, wide series, bases to be fire-resistant and non-absorptive material. When more than one switches is indicated in the same location, they shall be mounted in gang under a common plate.
- Switch for the exhaust fan shall be industrial type.
- Convenience outlet shall be duplex-type, universal & flush –type with fire-resistant non-absorptive bases, all duplex 3-wire grounding type with paneled slots receptacles minimum rating of 10 amperes at 250 volts.
- Suitable single pole and heavy-duty switches shall be installed where indicated on the plans. National brands wiring devices are primarily required. Equivalent brand shall be presented for approval. Minor relocations and re-circuiting shall be the liability of the Contractor.
- Following features shall be followed: one gang, one way switch, 2 gang, one way switch, 3 gang, one way switch, one gang three way switch, two gang three way switch, three gang three way switch, duplex flush type convenience outlet universal type, “Panasonic”; duplex pop up type floor outlet “Toshiba” stainless; flush type telephone modular jade style, RJ-45 snap in jacks, key stone style with accessories, 8 pin information data outlets, Face plate two gang, whit or ivory with cover, BiCC, AMP, PANDUIT or equal.

16410 Enclosed switches and Circuit Breakers

Circuit breakers and accessories

- The contractor shall furnish and install the required circuit protection as shown on the plans. The ratings and capacities of the branch circuits for window type Air conditioning unit is 20 AT/50AF, 2 pole, 240 volts 60 Hz., bolt-on type Fuji brand, in NEMA I enclosure mounted semi flush with built-in ACU outlet; for split type Air conditioning unit is 30 AT/50AF, 2 pole, 240 volts 60 Hz., bolt-on type Fuji brand, in NEMA 3R enclosure mounted semi flush with built-in ACU outlet.
- New installation shall be tapped on the existing line or to the nearest spare circuit homerun.
Section 16090  Restoration and Repair

- All Existing exposed wire to be embedded on wall. Restoration and repainting of damaged walls, windows, ceiling and exposed conduits shall be the Contractors liability.

NOTE:

The foregoing list of item of works does not in any way limit the responsibility of the Contractor to perform all other works necessary for the SOUNDPROOFING OF SPEECH LABORATORY@ ROOM 300, 3F RIZAL HALL, COLLEGE OF ARTS & SCIENCES.

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 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:

JEFFERSON B. LIM
Engineer I, Civil

ANTONIO E. RODRIGUEZ
Administrative Assistant II

AR. LEONARD P. CORDERO
Administrative Officer V

Certified Correct:

AR. ALLEN R. BUENAVENTURA, MCM
Chief

Recommended Approval:

LEONARDO R. ESTACIO JR., MACD, MPH, PhD
Dean, College of Arts and Sciences

MICHAEL L. TEE, MD, MHPed, MBA
Vice Chancellor for Planning and Development

Approved:

ARLENE A. SAMANIEGO, MD.
Vice Chancellor for Administration

13 APR 2016

SOUNDPROOFING OF THE SPEECH LABORATORY
SCOPE OF WORKS AND SPECIFICATIONS