Republic of the Philippines
Department of Science and Technology
PHILIPPINE ATMOSPHERIC, GEOPHYSICAL AND ASTRONOMICAL SERVICES ADMINISTRATION
(P A G A S A)

SPECIFICATIONS FOR THE PROPOSED RENOVATION OF WEATHER DIVISION STUDIO LOCATED AT 1ST FLR., WFFC BLDG., BIR RD., BRGY. CENTRAL QUEZON CITY

Project Title:
PROPOSED Renovation of Weather Division Studio
Location:
1st floor Weather & Flood Forecasting Center Bldg., BIR Road, Brgy. Central, Quezon City, 1100

OUTLINE SPECIFICATIONS FOR GENERAL CONSTRUCTION:

I. INTENT AND APPLICATION OF THE PROVISIONS OF THIS SECTION

A. The Scope of Work covered within these Specifications

B. This section is prepared in a concise manner, the intention of which is to save time and effort in locating important contents within these Specifications.

C. Execution of this Section shall be coordinated and harmonized to each corresponding elaborated section of these same specifications.

D. **In case discrepancies exist between this Section and its corresponding elaborated sections, notify the Procuring Entity immediately for clarification; their decision shall be final.**

E. The Contractor shall bear the responsibility of checking all the numbers and units as indicated in the Bill of Quantities. It is understood that the Contractor shall supply and install the required units in accordance with the Plans and the Specifications.

F. In their bid proposal, the bidders may propose materials or equipment or makes other than those specified in the BOQ and/or Specifications, provided they are of equivalent specifications and functionalities.

G. During project implementation, the winning bidder/contractor may propose substitution of materials or equipment or makes other than those specified in the Contract documents shall be subject to the approval of the Procuring Entity for the following reasons only:

1. That the materials or equipment proposed for substitution is equal or superior to the materials or equipment specified in construction efficiency and utility provided that any and all costs relative thereof shall be shouldered by the Contractor.

II. GENERAL CONDITIONS OF PLANS AND SPECIFICATIONS

The execution of this Specification, Plans and other related Contract Documents shall be subjected to the rules and regulations as provided in the General Conditions of the Contract. **The Plans and specifications shall be interpreted by the Procuring Entity and or his/her representative.** The Contractor is enjoined to confer with the Procuring Entity on items for clarification before submitting his bid. No excuses shall be entertained for misinterpretation of the Plans and specifications after the award of contract. All work as deemed required by the Procuring Entity shall be carried out properly by the Contractor.

A. The Contractor **shall consult the Procuring Entity on portion of the work not mentioned in the Specification and not illustrated on the Plans**. He shall not work without proper instruction or detailed plans approved by the Procuring Entity, otherwise he shall be responsible for the in acceptance of the work done without details. In such case, **the Contractor shall make good the work at his own expense.**

B. No alteration or addition shall be allowed without the consent and proper documentation approved by the Procuring Entity, even such change is ordered by the Procuring Entity. The Contractor shall bring the case to the Procuring Entity. Request for approval of such changes, alteration, deviation of work shall not be done without the consent of the Procuring Entity. Changes may be presented to the Procuring Entity in the form of shop drawings.

TWO (2) SET of clean Plans and specification shall always be kept at the jobsite to be available to the Procuring Entity or their representative upon his request during the construction.

DIVISION 1: SCOPE OF WORK

A. The Contractor shall conduct thorough inspection of the existing job site conditions.

B. The scope of work shall include all additions necessary in order to implement the whole set of approved Plans, Working Drawings and Specifications.

C. The Contractor shall secure and do all the legwork necessary for all pertinent permits needed for the Procuring Entity to occupy and use the building,

D. The Contractor shall construct All Architectural, Structural, Electrical, Sanitary/ Plumbing, Mechanical / in accordance with the Plans and Specifications. All items shown on the Plans but not mentioned in the Specifications shall be included. Discrepancies shall be verified with the Procuring Entity.

E. The Contractor shall submit details and shop drawings, templates, and schedules required for the coordination of the work of the various trades. Drawings should include information on all working dimensions, arrangement and sectional views, connections and materials.

F. **Final Cleaning As Pre-requisite To Final Acceptance**: Final cleaning shall be by the Contractor prior to the Procuring Entity"s final inspection for certification of final acceptance. Final Cleaning shall be applied on each surface or unit of work and shall be of condition expected for a first class building cleaning and maintenance program.

G. The Contractor shall be responsible for the safety and safe working practices of its respective employees, servants and agents.

DIVISION 2: SITE WORK
A. VISIT AND ACCEPT SITE, AS IS. The following works shall be included:

1. **Site Clearing:** Protection and/or removal of existing structures with the approval from the Procuring Entity.

2. **Removal of improvements above and below grade** (if any) necessary to permit construction and other work as indicated. The Procuring Entity and Lessor must be consulted prior to any demolition. Coordination with PAGASA Authorities / Facilities Group & proper investigation is to be conducted to avoid damage on existing utilities. Rubbish shall be legally and properly disposed of. Other items for relocation / demolition will be discussed in the Pre-Bid Conference.

B. SITE SAFETY REQUIREMENTS:

1. The Contractor shall, maintain a temporary board – up, security for the proper execution of site up-keeping. Such board-up shall be built where necessary and required by PAGASA for its full length except for such openings as may be necessary for the proper execution of the work, in such case, openings shall be provided with doors which shall be kept closed at all times except in actual use.

C. TEMPORARY SITE FACILITIES

1. Temporary Provisions:
    1. The Contractor shall provide all temporary lighting, power, water supply and all necessary facilities sufficient enough for the simultaneous use of all possible fields of work to complete the project.

    2. The Contractor shall provide at necessary no. of units of Fire extinguishers.

D. STORAGE AND FILING OF MATERIALS

1. **Delivery:** Contractor shall ensure that materials are properly turned over and delivered on site in good quality and condition. A time and delivery record shall be available.

2. **Storage:** Contractor's materials shall be arranged properly and accordingly in terms of sizes, quality, quantity, category and time of use.

3. All materials affected by moisture shall be stored on platforms and protected from weather. Materials shall be stored as to insure the preservation of their

quality and fitness for their work. Stored materials shall be located so as to facilitate prompt inspection.

4. Should it be necessary at any time to move materials, sheds or storage platforms, the Contractor shall do so at his own expense.

DIVISION 3: DRY WALL
A. DRY-WALL

150mm thick for all interior walls unless otherwise indicated. The wall compromises of 18mm thick of moisture resistant gypsum board to one face and 6mm thick fiber cement board to the other face. Supported with metal studs and tracks gauge20 or 1mm thick with 600mm spaces in between. The wall consist of 2 (two) 50mm thick infill rockwool with tow side aluminum foil per rockwool with a density of 80kg/cum.

DIVISION 4: DOORS AND INTERIOR WINDOWS :

Refer to Schedule of Doors and Windows

Note: The contractor shall exercise the utmost care in dismantling, transfer and installation of the doors/window. In case of any damage, the contractor shall replace the glass door without additional cost to the Procuring Entity.

A. FINISHING HARDWARE

The following Hardware Sets are furnished for whatever assistance it may afford the Contractor. The Contractor shall verify Plans and Specifications for hardware quality. Should any particular item be omitted, Contractor shall provide similar or equivalent item or hardware same as required.

1. **Locksets** shall be Heavy duty lever type handles, Yale Stainless Steel Door Lever Handle on Escutcheon (Handle Y). Stainless Steel Lever Handle on Escutcheon
This stainless steel series mortise door lever handle set features modern lever handle and escutcheon designs. The latch bolt and deadbolt are made of hardened stainless steel. Lever and escuteons are all made of high quality 304 stainless steel. Complete with Genuine Yale Euro Profile Door Cylinder for high key security.

Finish:
S1 - Stainless Steel & Chrome Plated Dual Tone
SS - Stainless Steel

a. All locks shall have three (3) keys with the lock number stamped for identification. Verify number of duplicates.
b. Schedule: Use extra heavy duty industrial / commercial series of door hardware.

2. **HYDRAULIC DOOR CLOSER**, shall be Yale Y2400 Series door closer will cater for a wide range of applications and door sizes. Ideally suited to doors in high traffic areas. With power adjustment range from 2-4 strength. Slim neat design will complement most applications.

All other necessary hardware such as latch bolts, catch locks, door chain fasteners, door stops, wall stops and holders, push plates, handles, etc. shall be of type, size and design suitable for the purpose.

C. GLASS AND GLAZING

1. Schedule: The contractor shall **submit glass sample** with performance data and certifications from the manufacturer.

DIVISION 4: FINISHES
Refer to Architectural Plans for location. Verify plans for other finishes not specified or omitted herein. **Sample of all materials shall be submitted to the Procuring Entity for approval as to color and quality workmanship.**

A. FLOOR FINISHES

1. **Carpet Tiles**: Supply and installation of 10 mm thick x 500 mm x 500 mm Refer to Schedule of finishes. **Submit sample for Procuring Entity"s approval.**

Notes:

The floor should have smooth and even surface and free from bump. Should there be any uneven surface re-doing the work will be no additional cost should be imply to the procuring entity.

B. CEILING FINISHES

1. **Dismantling & Cleaning Works:** Removal of some parts of existing ceiling including boards, metal frame, air-conditioning duct and others as affected by the new ceiling layout and finish.

2. **Moisture Resistant Gypsum Board Ceiling (boral):** Installation of 12 mm thick, with 5-year warranty to with stand humidity conditions up without visible sag; The ceiling should have smooth and even surface and free from bump. Should there be any uneven surface re-doing the work will be no additional cost should be imply to the procuring entity. **Submit sample for Procuring Entity"s approval.**

D. PAINTING WORKS

Painting Materials:
1. Submit various painting materials specification data and sample to be used for Procuring Entity"s approval.
2. All primers, thinners and putty, also waterproofing for internal and external application shall be the same brand as the specified material.
3. Painting materials including its application must be covered with minimum of **five- (5) year guarantee** to be rendered by the painting manufacturer.
4. Use **BOYSEN or DAVIES** only for all painted works.

Application:

1. **All sample paint shall be submit on at least 300-mm x 300-mm plywood panel, color and shade as per approval by the Procuring Entity.**
2. Application shall be as per paint Manufacturer"s specification and recommendation.
3. Provide all drop cloth and other covering requisite for protection of floors, walls, aluminum, glass, finishes and other works.
4. All applications and methods used shall strictly follow the Manufacturer's Instructions and Specifications. All surfaces including masonry wall shall be thoroughly cleaned, puttied, sandpapered, rubbed and polished; masonry wall shall be treated with Neutralizer.

All exposed finish hardware, lighting fixtures and accessories, glass and the like shall be adequately protected so that these are not stained with paint and other painting materials prior to painting works. All other surfaces endangered by stains and paint marks should be taped and covered with craft paper. *Manufacturer: Boysen or Davies Paint*

Painting Schedule:

1. Interior

a. **Interior Concrete Painted / Drywall –** 2 coats of primer and 2 coats of acrylic latex paint in satin finish. Sample shades shall be submitted.
b. **Chroma key Green paint -** 2 coats of primer and 3 coats of Chroma Key Green in matte finish. Sample shades shall be submitted.
c. **Epoxy Paint -** All steel structures should be painted in red oxide, primer and two coats of top coat. Sample shade shall be submitted.

Notes :

- Skim coating (Superfine) and sanding should be done.
- The wall/ ceiling/ slab should have smooth and even surface and free from bump.
- Should there be any uneven surface re-doing the work; will be no additional cost should be implied to the Procuring entity.

DIVISION 5: ELECTRICAL SPECIFICATION

ELECTRICAL WORKS

The scope of work for this project is to disconnect, rewire, supply and install all required electrical items for a complete operational lighting and power installation in accordance with the intent of this specification and drawing and all applicable code. These items include but are not limited to the following:

A. Provide conduit infrastructure for power cabling and receptacle power as indicated
B. Supply and install as required.
C. The contractor shall be responsible for the proper coordination of all items to ensure that all items requiring electricity are installed as required.
D. Obtain approvals from the electrical inspection authority of any changes requested by the inspection authority.

E. When doubt exists as to the meaning of the drawing or specification, obtain clarification prior to implementation.
F. All material to be use shall be brand new of the type of specified and approved by certification and free from defect.
G. All electrical equipment installed or connected shall be identified by means of black label with white lettering.
H. Clean all equipment during construction and on completion of the contract
I. Remove all surplus materials, cutting, packaging and debris from the site during the progress and at completion of the work.
J. Execute work in a FIRST-CLASS and workmanlike manner.

The contractor shall be responsible to determine which division or section provides various products and works, additional compensation will not be considered because of differences in interpretation of technical provision.

PANEL DISTIBUTION BOARDS:

In Existing Panel Distribution Board at Studio room, circuits no. 4 and no. 7 shall be replaced and upgraded to 30 Amps circuit breaker.

CONDUIT, WIRE AND CONNECTION:

Drawings are schematic only; conduit runs shown indicate point of joined. Runs may be altered by the contactor to suit actual field condition. Electrical drawings only give indication of others trades equipment.

All wires and cable shall be copper, 98% conductivity, stranded, color coded, new and marked as per code requirement and installed in raceway wires shall be rated minimum 600V, THHN/THWN, THW and TW type.

All wiring shall be sized as per code minimum allowable wire size is size 2.0mm².
All wires installed in conduit shall be pulled in at the same time. Only approved pulling lubricant shall be used. Color-coded conductors with different colors for line and ground.
All non-current carrying parts shall be grounded adequately and effectively in accordance with the requirements of the Philippine Electrical Code.
All wire connection to be securely fastened by means of approved connectors

All conduits must be securely fastened with approved cups and screw in wall and in ceiling, nails are not acceptable

All new branch circuits shall be laid out up to the existing panel distribution board for approximately 15 and 70 meters for each circuits.

The new color-coded supply/feeder wires shall be laid out properly up to the New Electrical Room of DIC Building using the specific conduit and fittings in the Bill of Materials.

All exposed wirings shall be protected by mica tube.

LIGHTING FIXTURES

All lighting fixtures when installed shall be free of leaks, warps, dents and other irregularities.

The hanger, cable, supports, channel, frames and brackets of all kinds for safety and proper installation of lighting fixtures shall be furnished and installed by the contractor at his own expense.

All lighting fixtures, sample and catalogue shall be submitted for PAGASA review and approval prior to order. NO lighting fixture shall be installed without approval of PAGASA.
Lighting fixtures shall be wired with approved fixture wire. Each fixture shall be wired to a single point with an adequate slack for proper connection. All lighting fixture shall be protected from damage during installation. Any broken lighting fixtures, gloves, receptacles, stems and the like, shall be replaced with new parts, at no cost to PAGASA.

SWITCHES AND DUPLEX 3-PIN CONVENIENCE OUTLET

Switches and three-pin outlet shall comply with NEMA Standards. The rating of switches and three-pin outlet with one conductor shall be as specific herein. All switches and three-pin outlets shall be flushed-mounted, impact resistant and splash proof type.

Switches

Switches for lighting fixture shall be on the toggle quite and flush mounted and fixed to the wall 1.30m above the finished floor level. The rating shall be 10A, 230 VAC single phase.

Duplex 3-pin Convenience Outlet

All outlets shall be provided with separate earthing pins connected to the part in the feeder cable. Outlet for 10A and with rated voltage not exceeding 250 volts shall be according to the PEC for 2-pole thee-wire (indoor).

Cables

Cables shall be stranded annealed copper conductor suitable for continuous temperature of 75 degree celsius. The minimum size of conductor shall be 2.0mm² for lighting circuits and 3.5mm² for power circuits.

Insulation shall be suitable for wet and dry locations, heat resistant and ultra violet stable.

Cable Installation

The contractor shall furnish the following miscellaneous materials required for proper cable installation.

a. Cable ties, clamps and markers.
b. Connectors, tapes and other splicing and terminal materials
c. Fire barrier, duct and conduit sealant and sand planks.
d. Pulling lubricant

The cable entries into building, panels and other equipment shall be sealed off by an approved type of sealant suitable for the purpose cable pulled through conduits shall be supported in an approved manner.

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