

Name of Project: **REPAIR AND IMPROVEMENT OF THE ROOFING OF GERONIMA T. PECSON HALL (MAIN BUILDING)**

Subject: **SCOPE OF WORKS**

GENERAL:

The Work consists of supervision, supply of materials, labor, and equipment, as well as all other items and services required to finish the Project. The Work must be fully executed and completed by the Contractor in a professional manner with the highest level of workmanship.

The Contractor must abide by all applicable laws, city ordinances, government regulations, and other legal obligations. He is accountable for any injuries to people or damage to property that may result from carrying out the Work. He is expected to study the details, confirm all dimensions on site, and bring to the attention of the Procuring Entity any discrepancy for clarification.

SCOPE OF DIRECT WORKS:

Unless otherwise specified in the contract documents, the Contractor shall be fully responsible for all the direct work required to complete the project including, but not limited to the following:

I. GENERAL REQUIREMENTS

1. Mobilization and demobilization of workers, materials, and construction equipment to be supplied by the contractor.
2. Furnishing of ID cards and uniforms, PPEs, and other safety equipment necessary for the complete protection of workers against the dangers of injury, sickness, or death. Also, installation of temporary protection and cover of school facilities.
3. Construction of temporary facilities for temporary office, warehouse and workshop or staging area.
4. Rental, erection, and dismantling of scaffoldings and temporary platforms to be done by personnel who have appropriate trainings and certifications.
5. PCAB License General Building Category C & D or higher.
6. Bidder shall submit the following documents during bid opening:
 - a. Bid prices in the Bill of Quantities;
 - b. Detailed estimates, including a summary sheet indicating the unit prices of construction materials, labor rates, and equipment rentals used in coming up with the Bid;
 - c. Detailed Unit Price Analysis (DUPA); and
 - d. Cash flow by quarter or payment schedule
7. The Contractor shall employ the following Key Personnel:
 - Bidder shall have one (1) Project-in-Engineer; one (1) License Architect; one (1) Foreman; one (1) Safety Officer; one (1) Materials Engineer; one (1) Registered Master Plumber and one (1) Professional Electrical Engineer. Bidder shall submit the photocopy of latest PRC ID Licenses of Engineers, License of Master Plumber, License Architect and latest PTR, and Curriculum Vitae of Foreman during bid opening.
8. Similar contracts shall refer to contracts that have the same major categories of work. The Bidder must have completed, within ten (10) years from the submission of bids, a

similar Contract to this Project which must be at least fifty percent (50%) of the Approved Budget for the Contract (ABC). Prospective Bidders must submit this Contract and will form part of the Technical Specifications as evidence.

9. The bidder shall submit a technical data sheet and evidences (in the form of manufacturer sales literature/catalogs/brochures) during bid opening. The technical data sheet and evidences shall be part of the criteria for evaluation.
10. All technical data sheet and evidences shall conform to the Bureau of Philippine Standards of the Department of Trade and Industry (DTI-BPS).
11. The bidder/s must conduct an onsite inspection on the project mentioned above and submit a site inspection certificate issued by the PNU Facilities Management and Sustainability Office (FMSO) during bid opening. A certificate of site inspection will be given to the bidder/s who procured the bid documents.
12. The Geronima T. Pecson Hall declared as National Cultural Treasures (NCT) by the National Museum of the Philippines (NMP) under the declaration MD-No. 10066. There are materials subject for approval of the National Commission for Culture and the Arts (NCCA). Prior the installation, the contractor shall submit material samples to the procuring entity and subject for the approval of the NCCA.
13. Warranty of roofing is 25 years and one (1) year warranty for installation. Bidder must submit manufacturer certificate of warranty for the roofing and contractor one (1) year warranty installation during bid opening.
14. Bidder shall submit the certificate of dealer and installer of the roofing product during the bid opening.
15. Subcontracting is allowed subject to the compliance with the RA9184 requirements.

II. STRUCTURAL WORKS

A. Site Preparation Works

1. Orderly removal, hauling, and stockpiling of clay roof tiles.
2. Removal of battens and other dilapidated clay roofing accessories.
3. Removal of ceiling, including all unnecessary attachments.
4. Demolition of mezzanine above rooms 304 and 304A.
5. Removal of paint and loose plasters of gable walls facing the roof.
6. Unclogging of existing roof and deck drains.
7. Hauling and disposal of debris and site cleanup.

B. Steel Works

1. Supply and installation of metal battens.
2. Supply and installation of ceiling support frame, complete with framing accessories.
3. Application of rust remover/converter and epoxy primer on new and existing steel framing.

C. Roof Deck

1. Concrete topping of roof deck slab using 3/8 crushed gravel, complete with welded wire mesh reinforcement.
2. Application of structural epoxies to bond concrete topping to existing concrete slab and/or waterproofing.

III. ARCHITECTURAL WORKS

A. Various Repair Works

1. Repair and replacement of damaged portions of wooden deck/undersheeting.
2. Replacement of dilapidated manhole frames with stainless-steel angle bars.

3. Replacement of manhole cover using solid polycarbonate sheet in stainless steel angle bar frame.
4. Repair and/or replastering of gable walls facing the roof.
5. Repair and/or replacement of broken or dilapidated parts of existing wooden fascia boards and truss/rafter tails.

B. Waterproofing and Masonry Works

1. Supply and application of polyurethane-based liquid-applied waterproofing membrane on roof deck and gable walls.
2. Supply and application of elastomeric paints on gable walls.

C. Roofing Works

1. Supply and installation of stone-coated metal roof tile, complete with stone-coated roofing accessories.
2. Supply and installation of stainless-steel inside gutter.
3. Supply and installation of waterproof underlayment.

D. Ceiling Works

1. Hallway: Supply and installation of fiber cement board ceiling on light gauge metal framing system, complete with hangers and supports.
2. Room Ceiling: Supply and installation of fiber cement board ceiling, cut to 600 x 600mm tiles, on heavy-duty T-runner ceiling suspension grid system, complete with hangers and supports.
3. Main Auditorium Ceiling: Supply and installation of fiber cement board ceiling on light gauge metal framing system, complete with hangers and supports.
4. Supply and installation of wood cornices and/or moldings to main auditorium ceiling.

E. Painting Works

1. Repainting of existing wooden fascia boards and soffit, including truss/rafter tails using quick drying enamel paint.
2. Painting of auditorium ceiling using semi-gloss or flat acrylic latex paint.
3. Painting of wood moldings and cornices at auditorium ceiling using quick drying enamel paint.

IV. PLUMBING WORKS

1. Supply and installation of PVC pipes, fittings, and accessories to replace broken or missing downspouts.
2. Supply and installation of customized downspout clamps.
3. Supply and installation of aluminum mesh gutter guards.
4. Supply and installation of stainless-steel gutter/downspout strainers.
5. Supply and installation of parapet roof drains with angled strainers for roof deck.

V. ELECTRICAL WORKS

1. Conduct a thorough inspection of the existing electrical system to determine its condition and identify any potential hazards or deficiencies.
2. Remove all outdated and worn-out electrical panels and circuit breakers.
3. Dismantle the existing electrical wiring and conduits and wire gutter.
4. Remove the existing lighting fixtures and power outlets and switches.
5. Disconnect and remove any electrical equipment that is no longer needed.
6. Extend the existing load side pipe layout and direct it to the new panel, ensuring the layout remains clean.
7. Supply and installation of new electrical wiring and conduits.
8. Supply and installation of wires and cables.
9. Supply and installation of new lighting equipment and wiring devices.
10. Supply and installation of new panel boards and boxes.

11. Install, test, and commission the new electrical system, ensuring that it meets all safety and performance standards.
12. Perform chiseling, concreting, boring holes on concrete or masonry, and restoring the integrity and appearance of the same wall and all other items shown on the plans as specified.
13. Complete Testing of the Electrical System and submit the following test result.
 - a. Insulation Test Result
 - b. No-Load, and Full Load Test Result
 - c. Continuity Test Result
 - d. Live test Result
14. As-built electrical drawings showing the updated electrical system.

SCOPE OF INDIRECT WORKS:

The following services shall be included in the indirect work/expenses as deemed necessary:

1. Overhead expenses which include but not limited to the following: Engineering and Administrative Supervision, transportation allowances, office expenses, and premiums on bonds and insurances.
2. Contingency works, which include meetings, coordination, design and construction of temporary works, if necessary, and other unforeseen events.
3. Miscellaneous works to include material testing whenever necessary for quality control, preparation and submission of shop drawing, documents and/or material samples as required, and preparation of as-built plans.
4. Contractor's profit and value-added tax.

Structural and Architectural Works
Prepared by:

Electrical Works
Prepared by:

(SGD.) ALFREDO G. ALARCON, JR.
Civil Engineer, FMSO

(SGD.) MARK ANTHONY Q. AMUL
Electrical Engineer, FMSO

Submitted by:

(SGD.) PROF. JOHN P. NATIVIDAD
Director, FMSO