

TECHNICAL SPECIFICATIONS

TERMS OF REFERENCE

MAINTENANCE OF PASSENGER TERMINAL BUILDING LIGHTNING PROTECTION SYSTEM, PORT OF CAGAYAN DE ORO (MPF-MOC-26-2025)

A. DESCRIPTION

The project aims to undertake the maintenance of the lightning protection system of the passenger terminal building, Port of Cagayan de Oro. The lightning protection system is a critical safety feature of the passenger terminal building designed to protect the infrastructure and occupants from the hazards of lightning strikes. Regular inspection and maintenance are essential to ensure its continued functionality and compliance with applicable safety standards.

B. OBJECTIVES

- To ensure the lightning protection system remains in optimal working condition.
- To verify compliance with national and international safety standards (e.g., IEC 62305, NFPA 780 or other relevant local standards).
- To minimize risks associated with lightning strikes through proactive maintenance.

C. GENERAL SCOPE OF WORKS

The supplier/contractor shall undertake the project in accordance with the accepted industry standards and procedures.

The services to be rendered by the said supplier shall include but not limited to the following:

1. Consult with the Authority, thru the Engineering Services Division Technical Staff, to ascertain the objectives and requirements of the services and confirms such requirements to the Authority.
2. Conduct ocular inspection of all components and conduct actual measurement at the site.
3. Supply of materials, labor, and equipment for the following scope of works:

DESCRIPTION OF WORK	UNIT	QUANTITY
1.0 UPGRADING OF LIGHTNING PROTECTION SYSTEM AT PASSENGER TERMINAL BUILDING	LOT	1.00

4. Supply of the following needed manpower:
 - a. Electrical Engineer
 - b. Skilled Workers (Welder/Electrician)
 - c. Helpers/Laborers
5. Supply of the following tools/equipment:
 - a. Electric Drill
 - b. Welding Machine
6. Perform other services or reasonable tasks that relate to the foregoing deliverables, which the Authority or its authorized representative may direct.

D. MATERIAL SPECIFICATIONS

ITEM 1.0 : UPGRADING OF LIGHTNING PROTECTION SYSTEM AT THE PASSENGER TERMINAL BUILDING

DESCRIPTION

The work includes the supply of materials, labor, tools and equipment for fabrication and installation of lightning arrester (ESE) mounting pole, Lay-out and cable laying of down conductor, installation of grounding grid and rod, Installation of ESE and lightning counter.

E. TERMS AND CONDITION

1. Scope of Work:

- The contractor shall provide and install a complete lightning protection system as per the specifications outlined in the project documents.
- The contractor shall ensure that the lightning protection system meets all applicable codes, standards and regulations.

2. Delivery and Installation:

- The delivery and installation of the lightning protection system shall be completed within Forty-Five (45) calendar days upon receipt of Notice to Proceed (NTP).
- The contractor is responsible for the handling and transportation of materials ensuring they are delivered in good condition.
- The installation of the lightning protection system will be carried out by the contractor's trained and qualified personnels.
- The contractor shall coordinate with the Engineering Services Division Technical Staff to schedule the installation and ensure minimal disruption to ongoing operations.
- Any delays in delivery or installation should be promptly communicated to the project owner, along with a revised timeline.

3. Quality Assurance:

- The lightning protection system shall be high quality, durable, and able to withstand the environmental conditions of the installation site.
- The contractor shall provide all necessary a, test reports, and documentation to validate the quality and performance of the lightning protection system.

4. Supervision and Workmanship

- The contractor shall utilize electricians and helpers supervised by its own Electrical Engineer in whatever phase of work being undertaken when and where special skills are required.
- Only proper tools shall be used by the contractor in the performance of his work. Damages that may arise or poor workmanship resulting from use of improper tools shall be corrected/replaced by the contractor at no extra cost to the Authority.

5. Technical Assistance and After-Sales Support

- The lightning protection system shall be covered by a comprehensive warranty against defects in materials and workmanship for a period of one (1) year.
- The contractor shall provide a maintenance plan outlining routine inspection and maintenance requirements for the lightning protection system.
- Any repairs or replacements required during the warranty period shall be the responsibility of the contractor.

F. TIMETABLE

The supplier shall commence the activities effective a day after the receipt of the Notice to Proceed. The complete equipment shall be delivered, installed, tested and made operational within Forty-Five (45) calendar days from the commencement of the activities.

G. FIRM AND STAFF REQUIREMENTS

The supplier shall be responsible in ensuing the timely completion of the project and shall have personnel complementation of adequate technical background, experience and capability.

The supplier shall provide the minimum appropriate personal protective equipment (PPE) such as hard hat, reflectorized safety vest, gloves and other appropriate PPE to their staff and crew when working on the project.

H. SCHEDULE OF PAYMENTS

All payments shall be processed only upon completion and issuance of a Certificate of Completion and Acceptance, subjected to accounting and auditing rules and regulations.

I. BUDGET

The Approved Budget of the Contract for the project “*Maintenance of Passenger Terminal Building Lightning Protection System, Port of Cagayan de Oro*” is *Nine Hundred Eighty-Four Thousand Three Hundred Seventy-Five Pesos (Php 984,375.00).*


J. MODE OF PROCUREMENT/QUALIFICATION OF BIDDERS

The contract for the **MAINTENANCE OF PASSENGER TERMINAL BUILDING LIGHTNING PROTECTION SYSTEM, PORT OF CAGAYAN DE ORO** shall be procured through Small Value Procurement, in accordance with Section 53.9 and Annex “H” of the 2016 Revised Implementing Rules and Regulations of RA 9184.

Interested bidders must submit their proposals on or before _____, at _____ am/pm, at the address provided. Prospective bidders will be evaluated based on a non-discretionary “pass/fail” criterion, and shall submit the updated/renewed printed copies of the following documents as part of the technical/financial proposal/envelope:

<i>Technical Proposal</i>	<ul style="list-style-type: none">• <i>PhilGEPS Certificate of Registration, with corresponding Annexes</i>• <i>Certificate of Registration from SEC/DTI whichever is applicable</i>• <i>Valid Mayor’s Permit</i>• <i>PCAB License</i>• <i>Income/Business Tax Return</i>• <i>Omnibus Sworn Statement</i>
<i>Financial Proposal</i>	<ul style="list-style-type: none">• <i>Duly accomplished, Request for Quotation</i>

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