



TERMS OF REFERENCE (TOR)

INSTALLATION OF LIGHTNING ARRESTER AT HIGH RISE BUILDING WITHIN QUEZON CITY HALL COMPOUND

I. RATIONALE AND BACKGROUND

The Quezon City Government, under the present administration, seeks to maintain safe and sound working environment for the benefits of the officials, employees and transacting public within the Quezon City Hall Compound.

II. PROJECT OBJECTIVES

This project aims to maintain safe and continuous operations of the Electrical power supply of High Rise Building within the Quezon City Hall Compound in the event of lightning strike for safety and compliance to the Electrical Code of the Philippines.

III. PROJECT SCOPE OF WORK

The Scope of Work under this project aims to ensure attainment of the Project Objectives.

The scope of work for the Installation of Lightning Arrester at High Rise Building as indicated in the Area of Coverage shall include, but not limited to, the following:

1. Supply and installation of G.I. pipe mast.
2. Incorporation of Bare copper wire.
3. Fabrication of cat ladder.
4. Installation of guy wire.
5. Supply and installation of Active Lightning Rod.
6. Layout and installation of PVC conduit pipe in High Rise West Wing pipe chase down to basement.
7. Supply and installation of lightning event counter enclosed in a pull box.
8. Construction of concrete inspection.
9. Installation of exoweld exothermic grounding.
10. Exothermic welding connection.
11. Installation of ground rod.
12. Restoration of all ground works/ civil works.
13. Provide safety signs and tagging of all electrical equipment.
14. Submit findings and recommendation.
15. Testing and Commissioning.
16. Restoration of any damages that may occur during the conduction of the scope of works.

TECHNICAL SPECIFICATIONS:

Active Lightning Rod

Early Streamer Emission Lightning Arrester

NFC 17 102 – Annex C Fresh Standard

UNE 21186 International Standard, ISO 9001-2008, ISO 14001-2004

OHSAS 18001-2007, CE Certified
Premium Quality International Accreditation, IAS Accredited
QR Certified, CE 100kA 10/350 with different Serial number per unit
Radius protection: 107 meters

Lightning Event Counter

Range of register from 0 to 999999 impulses

Range intensity 1 KA to 100KA

Working temperature from 20°C to 65°C, Protection Degree IP 65

Mono Pole

8-meter

Down conductor

Bare Copper wire 100mm²

Copper clad grounding rod ¾" x 10ft

G.I. pipe mast 2" diameter

- Liabilities of Service Provider:

1. The contractor shall indemnify and keep indemnified the City against all losses and claims for injuries or damage to any person or property whatsoever which may arise or consequence of the performance of this agreement and against al claims, demands, proceedings, damages, cost, charges and expenses whatsoever in respect of or in relation thereto.
2. The contractor agrees that the City shall be free from any liability to any accident at the service provider's personal doing to implementation of the contract.

IV. AREA OF COVERAGE

Quezon City Hall High Rise Building roof deck.

V. PROJECT STANDARDS & REQUIREMENT

The following are the minimum qualifications and requirements for the contractor:

❖ Track record

- The service provider should have at least three (3) years actual experience in Electrical services such as High and Low Voltage Electrical facilities installation and maintenance.

❖ Organization

- The Contractor should submit its detailed organization chart which should indicate an established organizational structure of technical personnel to show its capability to undertake the project.

❖ Manpower

- The Contractor shall provide at least seven (7) Electrical practitioner wearing proper personal protective equipment in conducting the installation works.
- All services to be rendered must be supervised by an accredited Safety Officer, duly licensed Master Electrician and duly licensed Electrical Engineer whom are required to provide Certificate of Registration and License.

VI. PROJECT DURATION

Sixty (60) calendar days upon issuance of Notice to Proceed.

VII. WARRANTY

The contractor shall provide one (1) year warranty of the equipment and workmanship.

VIII. APPROVED BUDGET FOR THE CONTRACT

The City has set an Approved Budget for the Contract (ABC) of NINE HUNDRED NINETY NINE THOUSAND SIX HUNDRED PESOS ONLY (999,600.00)

❖ No Price Adjustment

❖ The Project cost shall be fixed and there shall be no price adjustments applicable for the duration of the contract except when the operations cost are increased by more than 10% as a result of any extraordinary circumstance as determined by the National Economic Development Authority (NEDA). Pursuant to the provisions of RA 9184 and its IRR on contract price escalation, all contract price escalation shall be approved by the Government Procurement Policy Board (GPPB).

IX. BASIS OF PAYMENT

One-time payment upon completion of the scope of work.


X. PENALTIES FOR BREACH OF CONTRACT

Failure to deliver the services according to the standards and requirements set by the City shall constitute an offense and shall subject the Contractor to penalties and/or liquidated damages pursuant to RA 9184 and its revised Implementing Rules and Regulations.

XI. CANCELLATION OR TERMINATION OF CONTRACT

The guidelines contained in RA 9184 and its revised IRR shall be followed in the termination of any service contract. In the event the City terminated the Contract due to default insolvency, or for cause, it may enter into a contract pursuant to RA 9184 and its IRR.

Submitted by:


FE B. BASS
Officer-in-Charge
City General Services Department

BGMD/euv-TOR installation of lightning arrester at hrb 012623