

Services and Materials for the Installation of Lightning Protection and Grounding System at Mt. Sta. Rita Communication Facility

Scope of Works

MATERIALS AND SERVICES

1. Supply, delivery and installation of materials needed for the lightning protection system at Bldg. 4000 Mt. Sta. Rita communication facility including beacon/obstruction light and lightning strike counter (see engineering drawing/plan for reference).
2. Supply, delivery and installation of materials needed for the rehabilitation of grounding system at Bldg. 4000 Mt. Sta. Rita communications facility (see engineering drawing/plan for reference).

RESPONSIBILITIES OF THE SERVICE PROVIDER/SUPPLIER

I. GENERAL

- The Service Provider shall provide and guarantee the highest quality of engineering works delivered to SBMA.
- The Service Provider shall supply all the complete materials, labor, equipment, tools testing instrument, and service vehicle, needed for the installation of the items and its accessories.
- The Service Provider shall include any such item, although not specifically mentioned, that can be reasonably inferred as being required for the operation of the system as if such items were expressly mentioned herein.
- The Service Provider shall ensure Regulatory compliance such as but not limited to Building Permit, applicable Clearances (e.g NTC) and Environmental prior to project commencement.
- The Service Provider shall not interrupt any power system and/or any electric service presently connected without the presence of and/or notice to SBMA representative and if there will be any such interruption, it must be done with the least possible time.
- In the event of damage of any equipment during the delivery of services or during warranty period, either accidental or due to negligence of the service provider, the company representatives or employees, supplier is obliged to immediately replace, repair, or resolve the issues as may be deemed appropriate by SBMA.
- The Service Provider shall maintain a safe and clean job site throughout the project duration. Upon project completion, the job site shall be neat and clean with all debris picked up and barricades removed.
- The Service Provider must perform Quarterly Preventive Maintenance during the warranty period.
- The Service Provider shall provide after-sales support through a service helpdesk (i.e. telephone, email, text) and provide the direct contact numbers of their service engineers and technicians.
- The Service Provider shall ensure that all works must be done from 0800H – 1700H by the Service Provider's competent engineers and technicians. No work shall start unless the Service Provider's personnel are properly escorted by the SBMA assigned personnel.

II. PERSONNEL

- The Service Provider shall identify a single point of contact within their organization for project coordination activities.
- The Service Provider shall assign Site Engineer/s and/or technician to supervise all work activities at the project site/s.
- The Service Provider shall ensure that all works must be done by Service Provider's trained/competent engineers and/or technicians duly coordinated with SBMA assigned personnel.
- The Service provider shall ensure to follow the Standard Health Protocols during delivery and installation.
- The Service Provider's personnel shall be distinctly recognizable while within the premises. The Service Provider's personnel shall wear uniforms and Personal Protective Equipment (PPE) with proper identification (SBMA ID and Company ID).
- The Service Provider must be liable and solely responsible for any harm, damage and injury that may be incurred or suffered by its own crew/workers or any other person in the implementation of the project.

III. SUBMITTAL

- The Service Provider shall submit a Weekly Accomplishment Report to monitor the progress of the project.
- The Service Provider shall submit Project Documentation which shall include but not be limited to the following:
 - a. Proposed drawing plan duly signed by authorized/proper personnel
 - b. Project Timeline
 - c. As-built Engineering Plan duly signed by authorized/proper personnel
 - d. Preventive Maintenance Plan and schedule within the warranty period.

IV. SITE INSPECTION

- The Supplier shall visit the premises at Bldg. 4000, Mt. Sta. Rita Communication Facility. The Service Provider shall check and verify all dimensions and conditions at the job site.

Technical Specifications:

Lightning Protection (1 Lot)

Lightning Arrester

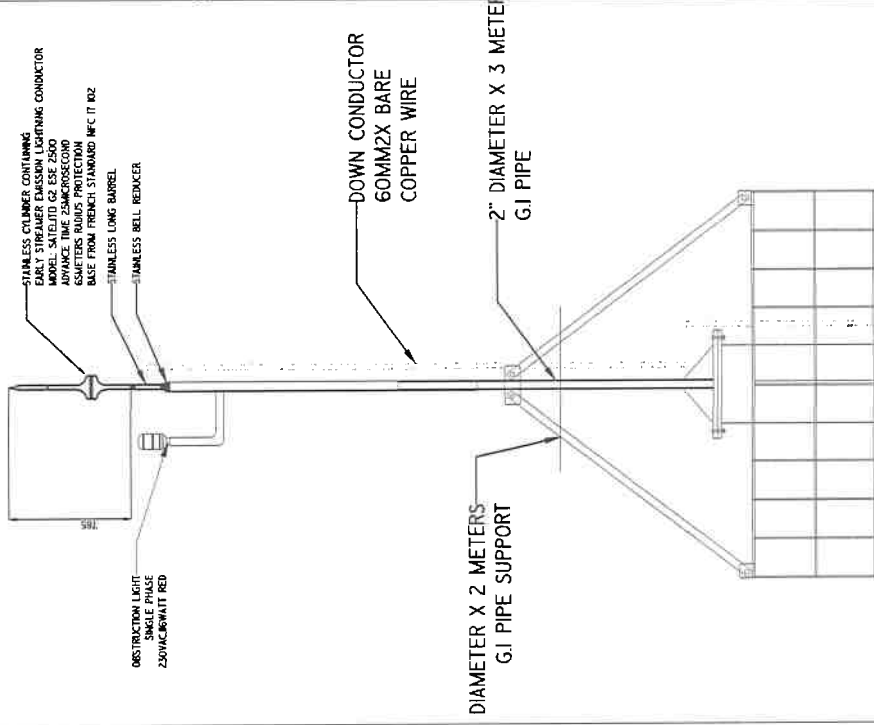
Radius of protection: atleast 65 meters

Conductor: atleast 60mm bare copper wire

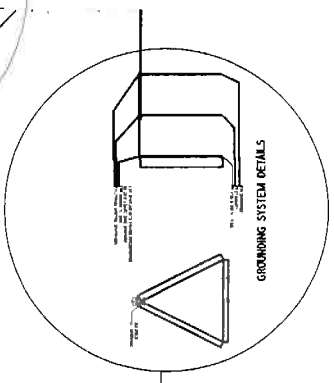
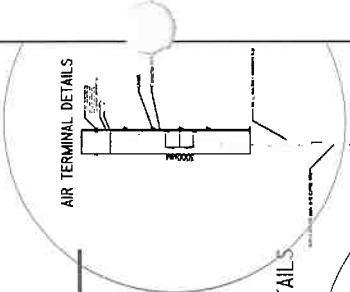
with:

1. Obstruction/Beacon Light
 - Color: Red
 - 240VAC
 - 116 Watts or better
2. Lightning Strike Counter
 - Withstand Capability: 100kA or better
 - With display
 - Atmospheric Pressure: 70 to 106 kPa or better
 - Protection: IP67 or better

LIGHTNING ARRESTER DETAILS



EXOTHERMIC WELDING CONNECTION
 WIRE TO GROUND ROD
 60MM² BARE COPPER WIRE TO
 3000MM COPPER CLAD GROUNDING ROD
 GROUNDING PIT
 TEST PIT



GROUNDING SYSTEM DETAILS

PAG-ASA TOWER BUILDING

