



Lightning Protection System

Ensure Safety, Reliability, and Durability for Your Infrastructure



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Lightning strikes pose significant risks to structures, leading to potential fires, electrical surges, and safety hazards. CAPE Electric offers comprehensive Lightning Protection Systems (LPS) designed to safeguard your property by effectively intercepting and managing lightning strikes.

What is a Lightning Protection System?

A lightning protection system (LPS) is an essential safety measure that prevents damage to structures caused by lightning strikes. Whether it's residential, commercial, or industrial, CAPE Electric's LPS ensures your infrastructure remains intact and safe from the destructive forces of nature.

CAPE Designs and Installs Lightning Protection System in Compliance to

- IS/IEC 62305-1 - Protection against lightning – Part 1: General principles
- IS/IEC 62305-2 - Protection against lightning – Part 2: Risk management
- IS/IEC 62305-3 - Protection against lightning – Part 3: Physical damage to structures and life hazard
- IS/IEC 62305-4 - Protection against lightning – Part 4: Electrical and electronic systems within structures
- NBC: 2016 - National Building Code of India
- IS732: 2019 - Code of Practice For Electrical Wiring Installations
- NEC 2023(SP30) - National Electrical Code of India 2023
- IS 3043: 2018 - Code Practice of Earthing
- IEC 62561 – Part 1 to Part 8 - Lightning Protection System Components
- IEC 61643-11 & IS 16463-11 : Part 11: SPD connected to low-voltage power systems– Requirements and test methods
- IEC 61643-12 & IS16463-12 : Part 12: SPD connected to low-voltage power systems – Selection and application principles



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Types of Lightning Protection System

- **External Lightning Protection System:** An External Lightning Protection System (LPS) for existing buildings is designed to protect structures from lightning strikes. It includes components like lightning rods, conductors, and grounding systems that safely direct the energy into the ground, preventing damage to the building and its electrical systems.



- **Integrated Lightning Protection System:** An Integrated Lightning Protection System (LPS) embeds the down conductor within a building's concrete, providing seamless, discreet protection from lightning strikes. This system is ideal for new buildings as it can be integrated during construction, ensuring both safety and aesthetic appeal.

Key features include:

- Prevent Dangerous Sparking: Equipotential bonding and separation distances eliminate sparking risks.
- Protect Electrical Systems: Shields against lightning-induced electromagnetic pulses (LEMP) and electromagnetic interference (EMI).
- Mitigate Surge Transmissions: Safeguards equipment from surges through wires and radiated fields.

This integrated design offers long-term durability, reducing maintenance and ensuring reliable protection for both the building and its electrical systems.



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Our Range of Lightning Protection Services

- Risk Assessment and Consultation: Our experts conduct a thorough analysis of your infrastructure to assess potential lightning risks and provide tailored protection solutions.
- Lightning Protection Systems: This includes air terminals, conductors, and grounding systems designed to shield your building from lightning strikes.
- Internal Lightning Protection Systems: We provide surge protection devices (SPDs) that protect your sensitive electronic equipment from secondary lightning effects.
- Inspection and Testing: We offer inspections and testing services for existing installations to ensure the system continues to operate.

Why Choose CAPE Electric's Lightning Protection System?

- **Adherence to Latest Indian & International Standards**

Our systems are designed and installed to meet both Indian and international standards,

- **Expertise with 28 Years of Experience**

With over 28 years of industry experience, CAPE Electric delivers reliable lightning protection solutions backed by deep technical expertise and innovation. Specializing in industries such as oil and gas, we offer tailored solutions to meet the unique demands of high-risk facilities.

- **Customized Solutions for Every Need**

We offer tailored lightning protection systems that cater to the unique needs of your building, ensuring optimal safety and performance. We design and install both internal and external lightning protection systems that offer complete safety against direct and indirect lightning strikes

- **Components Developed In-House, Tested in International Laboratories**

All our components are developed in-house and rigorously tested in international laboratories to guarantee high quality and reliability. Our LPS systems are designed and installed with corrosion-resistant materials to ensure longevity and minimal maintenance.

- **Reliable, Durable, and Cost-Effective Solutions**

Our systems are built with durable, long-lasting materials that provide reliable protection while being cost-effective over the long term.



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