

Vetting of MEPF Drawings of Hospital Block of AIIMS, Rishikesh.

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Abstract

Hospitals require highly reliable MEPF systems to maintain patient safety, operational efficiency, and regulatory compliance. Inadequate or faulty MEPF designs can lead to safety hazards, increased energy consumption, and functional disruptions in critical hospital operations.

The vetting of MEPF (Mechanical, Electrical, Plumbing, and Firefighting) drawings is a crucial step in ensuring the safety, functionality, and compliance of hospital infrastructure. This project focuses on the detailed review and validation of MEPF drawings for the Hospital Block of AIIMS, Rishikesh. This vetting process ensures that AIIMS, Rishikesh, is equipped with robust, efficient, and regulation-compliant MEPF systems, ultimately contributing to an advanced healthcare facility.

The primary objective is to identify design inconsistencies, ensure adherence to hospital infrastructure standards, national building codes, and optimize system efficiency.

Objectives:

1. **Verify Compliance** – Ensure that the MEPF designs adhere to relevant standards such as the National Building Code (NBC), IS Codes, and hospital-specific requirements.
2. **Assess System Efficiency** – Evaluate the performance and integration of HVAC, electrical, plumbing, and fire protection systems to enhance hospital functionality.
3. **Identify Design Gaps** – Detect potential flaws, conflicts, or inefficiencies in the proposed layouts and recommend necessary corrections.
4. **Ensure Safety & Sustainability** – Review fire safety provisions, emergency systems, and energy-efficient solutions to create a safe and sustainable hospital environment.
5. **Facilitate Smooth Execution** – Provide recommendations that aid seamless construction, installation, and long-term maintenance of MEPF systems.