



CAPACITY BUILDING OF PIU ENGINEERS OF THE HEALTH DIVISION

To be organized by



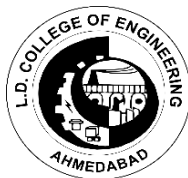
Gujarat Institute of Disaster Management

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1. Background

Gujarat is prone to various types of hazards due to a combination of geographical, geological, and environmental factors. Gujarat is located in a seismically active region, majorly falling in Seismic Zone III, Zone IV and Zone V. The state has a long coastline along the Arabian Sea, making it susceptible to cyclonic storms and associated hazards such as strong winds, heavy rainfall, and storm surges besides droughts and frequent floods. In addition to the natural hazards, Gujarat is prone to many human-induced hazards due to its robust industrial base with numerous chemical plants, refineries, and other industries.

In recent reports it has been observed that hospital safety preparedness has not been regularized and fire safety along with earthquake emerged as a major concern in different hospitals in Gujarat. Fire incidents of Shrey Hospital, Rajkot Hospital are example of construction mismanagement.

Given these factors, disaster risk management (DRM) becomes essential for Gujarat to reduce vulnerabilities, enhance preparedness, and mitigate the impact of various hazards on its communities and infrastructure. The structural development and planning, design is necessary to be in accordance with National Building Code (NBC) 2016, Gujarat Fire Prevention and Life Safety Measures Act, Rules & Regulations, General Development Control Regulations (GDCR) & different Indian Standards (IS). The National Disaster Management Authority (NDMA) also provides guidelines of ‘Hospital Safety’ of 2016.

Project Implementation Unit (PIU) Engineers holds the responsibility for building resilient healthcare facilities in order to make public health services continuous, sustainable. Further, their responsibilities encompass various aspects of disaster risk reduction, including the structural development with low carbon footprint, less energy consumption and multi-hazard resilient. Planning, design, monitoring and maintenance for safety audits are major responsibilities of the engineers and technical experts. In this regard, enhancing the capabilities of the Project Implementation Unit for resilient hospital building is utmost important.

The *Institution for Civil Engineers (ICE)* in UK has studied in the various aspect of sustainable infrastructure and developed 6 principles for such development. The principles are **i) Adaptive to transformation, ii) Environmentally integrated, iii) Protection by design, iv) Socially engaged infrastructure, v) Shared responsibility and vi) Continuous learning.**



SDG Goal 9: Developing Sustainable and Resilient Infrastructure

With the world steadily moving towards Disaster Risk Management (DRM), there is an imminent need to understand, in a definitive and elaborative manner, the role that technical experts besides social and policy advisors can play in Disaster Risk Reduction (DRR) and hence, DRM. Keeping this in view, GIDM has planned to organize a series of **Capacity Building Programme for Project Implementation Unit (PIU) Engineers to Make Resilient Healthcare System in Gujarat.**

2. Aim & Objectives

The aim of this training is to sensitize PIU Engineers dedicated for Healthcare facilities about the necessary knowledge, skills, and capabilities to effectively respond to and manage any crisis and disasters. The training seeks to achieve the following *objectives* -

- Equip participants with the competence and confidence needed to effectively contribute to build resilient health care facilities with the aim to protect lives, and support communities during times of crisis.
- To sensitize participants in coordinating with other emergency services, government agencies, and community organizations to ensure a unified and efficient response in post-disaster recovery scenario.
- To develop knowledge and understanding of sustainable development fulfilling the idea of SFDRR and SDG targets.
- To enhance the capacities of the participants for making hospitals green, low footprint based with positive environmental impact.
- To build capacity for continuity of essential services during emergencies.

3. Target Participants

The target group for this program will be Project Implementation Unit Engineers dedicated to Healthcare facilities across various districts of Gujarat.
