

## Concept Note

### Urban Flood Risk Reduction & Resilience

**Venue: Gujarat Institute of Disaster Management (GIDM), Gandhinagar**

**Date: 25<sup>th</sup> - 26<sup>th</sup> July, 2024**

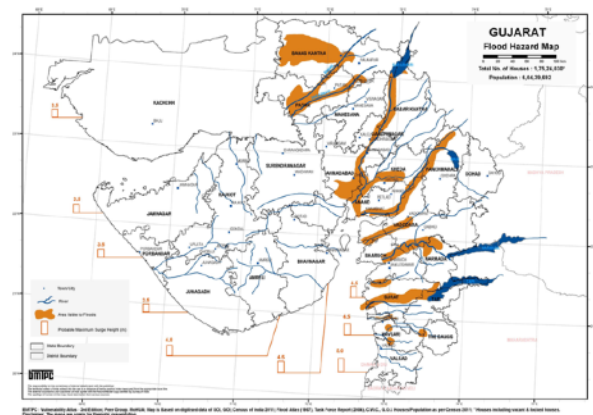
#### Executive Summary

Gujarat Institute of Disaster Management is organising a training program on 'Urban Flood Risk Reduction & Resilience' from 25<sup>th</sup> to 26<sup>th</sup> July, 2024 at GIDM campus. The main aim of the training program is to spread awareness about urban floods, associated risks and risk reduction measures among the participants.

This program is targeted for the Engineers, Architects and Town planners of Urban Development and Urban Housing Department; Commissioner of Municipal Administration; Municipal Corporations; Area Development Authorities and Urban Development Authorities of the State. The sessions will be delivered by experts from government, non-government organisations, academia and research institutes, etc.

#### Background

Flooding is one of the costliest metrological hazards, causing hundreds of billions of dollars of damage annually. Although the impacts of climate change on riverine and urban flooding vary with some expected to receive more rain and others less, the overall increase in the intensity of rains increased flood risk, particularly in Gujarat. Urban areas where most of the world's population lives, will be particularly vulnerable, given the inability of urban surfaces to absorb rain.



As per IPCC, 2022 there is 170% projected increase in damage caused by riverine flooding with 2<sup>o</sup> C warming without adaptation. As per *Gujarat Flood 2017, A Case Study* Gujarat experienced very heavy rainfall in the last week of July 2017. Banaskantha and Patan were the worst affected, experiencing extremely heavy rainfall during 24<sup>th</sup>-27<sup>th</sup> July 2017. In the first month of the monsoon season, these areas normally receive around 30% of their annual rainfall. However, in 2017, these districts saw a record breaking 163% and 140% of their annual rainfall during the same period. The

floods caused extensive damage to lives and property and was a imperative to developmental activities.

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## Session Objectives

This training aims to provide key points:

1. Understand the basic concepts of Disaster Risk Management, urban floods, etc.
2. To learn structural and non-structural strategies for flood risk mitigation
3. To enhance knowledge through cases where grey-blue-green infrastructure is promoting resilient urban development

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## Date & Time

- 25-26 July, 2024, 10:00 am (Reporting)

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## Venue

- Seminar Hall, Gujarat Institute of Disaster Management

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## Organisers

- Gujarat Institute of Disaster Management (GIDM)
- Gujarat Urban Development Mission (GUDM)

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## Format

- In Person

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## Expected Participants:

- Participants (40-50)
- Engineers, Architects and Town-Planners

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## Expected Outcomes

At the end of the training program, the participants would be able to,

- Have conceptual clarity on Disaster Risk Management
- Appreciate the requirement of preparedness and mitigation activities for urban flood risks
- Have hands-on exercise on Disaster Resilience Scorecard for Cities: Climate Resilience Addendum

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