

3-Days Residential Training
on
‘Cyclone and Earthquake Resistant Construction of Critical Infrastructures (Buildings & Bridges)’

Date: 31st August, 01st & 02nd September, 2023

TENTATIVE SCHEDULE

Name of Programme	Cyclone and Earthquake Resistant Construction of Critical Infrastructure (Buildings & Bridges)		
Date	31 st August – 02 nd September, 2023 (3 days)	No. of Participants	35-40
Target participant	Dy Exe. Engineer, Assistant Engineer, Addl. Assistant Engineer	Target Department	R&B Dept.
Programme Mode	Residential Training Programme		
Address	Gujarat Institute of Disaster Management (GIDM), B/h PDEU, Raysan, Gandhinagar		
Time	Topic	Objectives of the Session	Partner Agency/ Resource person
DAY-1: 31 st August 2023			
09.00hrs – 10.00hrs	Breakfast	<ul style="list-style-type: none">Dining hall	GIDM
10.00hrs – 10.30hrs	Registration	<ul style="list-style-type: none">Online registration of participantsTraining kit distribution	
10.30hrs – 10.45hrs	Pre-Test	<ul style="list-style-type: none">Pre-Test of Participants	
10.45hrs – 11.45hrs	Activity - 1	<ul style="list-style-type: none">Introduction of Participants	
TEA BREAK : 11.45hrs – 12.00hrs			
12.00hrs – 13.00hrs	Basics of Disaster Risk Management	At the end of this session participants will be able to: <ul style="list-style-type: none">Understand ‘Disaster Risk’ through Hazards, Exposure, Vulnerability and Capacity componentsDescribe conceptual framework for Disaster Risk ReductionExplain that disasters are NOT natural and need for intervention and planning	Mr. Bateswar Das, RAPC - GIDM
LUNCH: 13.00hrs – 14.00hrs			

14.00hrs – 15.15hrs	Evolution of Disaster Risk Management	At the end of this session participants will be able to understand: <ul style="list-style-type: none"> • Evolution of disaster management into disaster risk management • Paradigm shift in DRR • Relevance with SFDRR, SDG's, PM's 10 point agenda 	Mr. Piyush Ramteke, RSPM - GIDM
TEA BREAK :15.15hrs – 15.30hrs			
15.30hrs – 16.30hrs	Activity -2	Risk Assessment	Ms. Pushpanjali Pradhan, RAPC - GIDM
16.30hrs – 17.30hrs	Governance of Disaster Risk in India	At the end of this session participants will be able to understand: <ul style="list-style-type: none"> • Disaster management act 2005, DM Policy and role of various Govt. depts. • Institutional mechanism for DRR – NDMA, SDMA, DDMA • Programmes undertaken for risk reduction of: <ul style="list-style-type: none"> ▪ Cyclone Risk ▪ Flood Risk ▪ Earthquake Risk ▪ Fire Risk ▪ School Safety, ▪ Hospital Safety 	Mr. Piyush Ramteke, RAPC - GIDM
DAY-2: 01st September 2023			
10.30hrs – 11.30hrs	Overview of Cyclones	At the end of this session participants will be able to understand: <ul style="list-style-type: none"> • The science behind cyclones • Global cyclone patterns and the impacts • Cyclone forecasting and monitoring • Vulnerabilities of the state/districts 	Mr. Ankur Srivastava, ROPM - SDMC (IU)
TEA BREAK: 11.30hrs – 11.45hrs			
11.45hrs – 13.00hrs	Effect of Cyclones on Buildings	At the end of this session participants will be able to understand: <ul style="list-style-type: none"> • Behaviour of Buildings during cyclones • Observed damages in cyclones • Cyclone resistant design of buildings • Non-structural mitigation measures in buildings 	Dr. Manish Kumar, Associate Professor (Civil Engineering), IIT-Gandhinagar

LUNCH: 13.00hrs – 14.00hrs			
14.00hrs – 15.15hrs	Criticality of Cyclone in Design & Construction of Bridges	<p>At the end of this session participants will be able to understand:</p> <ul style="list-style-type: none"> • Type of damages in bridges due to wind effect • Relevant IS codes for design • Design parameters to be considered for designing of bridges • Maintenance of bridges in cyclone prone areas 	Mr. Ronak Motiani, Assistant Professor, PDEU
TEA BREAK: 15.15hrs – 15.30hrs			
15.30hrs – 16.30hrs	Activity-3	<ul style="list-style-type: none"> • Identification of non-structural items in earthquake and tsunami • Measurement of an earthquake 	Mr. Piyush Ramteke, RSPM - GIDM
DAY-3: 02nd September 2023			
10.30hrs – 11.30hrs	Earthquake: Basic Science, Risk and Governance	<p>At the end of this session participants will be able to understand:</p> <ul style="list-style-type: none"> • Basic Science of Earthquake • Measurement of Earthquake • Earthquake Risk in Gujarat • Earthquake Risk Governance 	Dr. Santosh Kumar, ISR
TEA BREAK: 11.30hrs – 11.45hrs			
11.45hrs – 13.00hrs	Effect of Earthquake on Buildings	<p>At the end of this session participants will be able to understand:</p> <ul style="list-style-type: none"> • Behaviour of Buildings during Earthquake • Observed damages in Earthquake • Earthquake resistant design of buildings • Non-structural mitigation measures in buildings 	Prof. C. S. Sanghvi, L.D. College of Engineering
LUNCH: 13.00hrs – 14.00hrs			
14.00hrs – 15.15hrs	Earthquake Resistant Bridges – Latest Trends	<p>At the end of this session participants will be able to:</p> <ul style="list-style-type: none"> • Type of damages in bridges due to earthquake • Relevant IS codes for design • Design parameters to be considered for designing of bridges • Latest trends in bridge construction technology • Maintenance of bridges in earthquake prone areas 	Mr. Parth Shah, Consultant
TEA BREAK: 15.15hrs – 15.30hrs			

15.30hrs – 16.30hrs	Activity-4	Visit to ISR	GIDM
16.30hrs – 16.45hrs	Post-test	Post-test of Participants	GIDM
16.45hrs – 17.00hrs	Valedictory Session	Interaction with DG-GIDM/ Director (DM) and Feedback	GIDM
