

Training Program

on

DISASTER RESILIENT WATER INFRASTRUCTURE

For Engineers

of

GWIL, GWSSB, WASMO, Municipal
Corporations & Municipalities of GoG

Date- 18-19 July 2024 Venue: GIDM, B/h PDEU, Raysan, Gandhinagar, Gujarat





Tentative Schedule

	Day - 1: 18th July 2024				
Time	Session	Session Details/ Objectives	Resource		
8.30-9.30		Breakfast			
9.30-10.00	Registration	 Online registration of participants Training kit distribution Facility briefing Safety briefing 	GIDM		
10.00-10.30	Pre-Test & Introduction of Participants	 15 Question online Test on DRR Establishment of Ground rules Introduction of participants 	GIDM		
10.30-10.45	About GIDM	At the end of the session participants would be able to understand: • History & Establishment of GIDM • Governance mechanism • Core areas of GIDM • Programs and Achievements	GIDM		
10.45-11.45	Basics of Disaster Risk Management	At the end of the session participants would be able to understand:	GIDM		
11.45-12.00		Tea break			
12.00 -13.00	Understanding on Disaster Resilient Water Infrastructure	At the end of the session participants would be able to understand: • Resilient Infrastructure-Concepts & trends • Overview of water infrastructure and their vulnerabilities • Impact of climate change on water infrastructure • Cascading effect on population due to risk associated with service interruptions	GIDM		
13.00-14.00		Lunch break	l		
14.00-15.30	Enhancing Resilience in Water	At the end of the session participants would be able to understand: • Effects of hazards on treatment plants	KCPL, Ahmedabad		



	Treatment Facilities	 Layouting and design considerations of various units of treatment plants [Seismic, floods, cyclone, Tsunami, extreme weather etc.] Use of advanced materials and construction methods in treatments 	
		 plants Operation & maintenance strategies 	
15.30-15.45		for resilience Tea break	
15.45-16.45	Strengthening Water Quality Resilience	At the end of the session participants would be able to understand: • Water quality parameters (Physical, Chemical, biological) • Water quality standards and regulations • Water quality monitoring & testing methods	Nirma University
16.45-17.45	Fire Safety Hands on Exercise	 Common water borne diseases At the end of the session participants would be able to understand: Types of Fire Procedure to use fire extinguisher Fire risk assessment Hands on use of fire extinguisher 	GSFA
		Day -2: 19th July 2024	
9.00-10.00		Breakfast	
10.00-11.30	Integrating Resilience into Water Conveyance Systems	At the end of the session participants would be able to understand: • Overview of water conveyance systems • Design of water conveyance systems (Pipe material, size, layout pump, valve etc) • Pipeline inspection & maintenance • Emerging technologies in water conveyance	VPEP, Ahmedabad
11.30-11.45		Tea break	
11.45-13.00	Building Resilience in Water storage infrastructure	At the end of the session participants would be able to understand: • Effects of hazards on water storage infrastructure (overhead tank, sump, wells, tanks, etc.) • Layout and design consideration of water storage infrastructure [Seismic, floods, cyclone, Tsunami, extreme weather etc.]	CEPT



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		 Operation & maintenance strategies for resilience Emerging technologies in water storage 	
13.00-14.00	LUNCH break		
14.00 -15.15	Resilient	At the end of the session participants would	IIT-
	Wastewater	be able to understand:	Gandhinagar
	Infrastructure	 Effects of hazards on sewerage 	
		systems	
		 Layout and design consideration of 	
		for sewerage systems (Materials,	
		joints, shapes, loads, etc.)	
		 Operation & maintenance strategies 	
		for resilience	
		 Emerging technologies in water 	
		storage	
15.15-15.30	Tea break		
15.30-16.30	Resilient	At the end of the session participants would	GIDM
	Pumping	be able to understand:	
	Systems for the	 Types of Pumps & their choice 	
	Future	Multiple pump system	
		System head curve	
		Selection of pumping units	
		Operation & maintenance of pumps	
16.30-17.00	Valedictory	Post-test	GIDM
	Session	 Feedback 	
		Certificate distribution	
		Group photo	
