

National Communities of Practice (CoP) on Enabling Cities on Disaster Risk Reduction and Climate Change Adaptation for Sustainable Urban Development in India



28th November, 2024

NIDM Rohini Campus, Delhi

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Introduction

Climate change is a global concern, with projections indicating a potential rise in the Earth's average temperature by over 3 degrees Celsius this century, leading to intensified droughts, increased rainfall, and more extreme weather events like rising sea levels and stronger tropical cyclones. The United Nations Office for Disaster Risk Reduction (UNDRR) and the World Meteorological Organization (WMO) highlight that climate change amplifies disaster risks and reduces community resilience, with natural disasters increasing fivefold in the past five decades. The Sustainable Development Goals (SDGs) emphasize sustainable urban development, with SDG 13 focusing on climate action and Target 11.b calling for cities to adopt integrated policies for climate resilience. The Sendai Framework for Disaster Risk Reduction (SFDRR) and the Paris Agreement underscore global efforts to reduce disaster risk and limit global warming. India, as a signatory to these international frameworks, is committed to mainstreaming Disaster Risk Reduction (DRR) and Climate Change Adaptation (CCA) into its development planning, with a ten-point plan proposed by the Prime Minister during the 2016 Asian Ministerial Conference on DRR. This plan emphasizes the integration of DRR and CCA across sectors to ensure that development does not increase vulnerabilities and is resilient to future risks.

NIDM is working on a project '**Enabling Cities on Disaster Risk Reduction (DRR) and Climate Change Adaptation (CCA) for Sustainable Urban Development in India**', a sub project of Sustainable Urban Development Smart Cities II (SUDSC-II), being jointly implemented by GIZ on behalf of the German Federal Ministry of Economic Cooperation and Development (BMZ) and the Ministry of Housing and Urban Affairs (MoHUA), Govt. of India.

As part of the project, the NIDM has conducted two research studies aimed at assessing urban resilience. These studies include the "Development of a Flood Risk Assessment Framework and Roadmap for Making Cities Resilient" and "Policy Support for Mainstreaming Disaster Risk Reduction and Climate Change Adaptation Measures into Development Plans." Additionally, NIDM has developed training modules based on both studies, as well as a module on "Solid Waste Management in Post-Disaster Situations." Apart from these, NIDM established an online knowledge management portal as a central repository for Disaster Risk Reduction (DRR) and urban resilience-related best practices and success stories. The platform is hosted on the India University and Institutions Network for Disaster Risk Reduction (IUINDRR) established under NIDM, the largest network of universities and institutions engaged in capacity building, research, and teaching in disaster management.

The agendas of the workshop were as follows:

- Facilitate peer-to-peer learning on mainstreaming DRR and CCA in urban planning and development.
- Share the outcomes, best practices, and innovative solutions identified through the project.
- Launch the Knowledge Management Portal to provide stakeholders with access to research, frameworks, and tools for disaster risk reduction.
- Create a collaborative network for continued knowledge exchange and capacity building on urban resilience.

Brief Summary

NIDM has successfully organized a National Workshop on "**Community of Practitioners (CoP) - Enabling Cities for DRR & CCA Measures for Sustainable Urban Development**" on November 28, 2024, at NIDM, Rohini Campus, New Delhi.

The event was inaugurated by esteemed dignitaries, including Shri Rajendra Ratnoo IAS, ED, NIDM; Dr. Teresa Kerber, Project Director, SUDSC-II, GIZ India; Shri P Jayapal, Senior Advisor, CMDA; Shri. P.S. Reddy, JD, NIDM; Dr. Amir Ali, NIDM; and Dr. Garima Aggarwal, GIZ-NIDM Project Lead & Sr. Consultant.

During the inaugural session, Shri Rajendra Ratnoo IAS emphasized the importance of creating sustainable cities and addressing urban resilience. The workshop featured two technical sessions, where experts presented outcomes of the NIDM-GIZ project and best practices on urban resilience. An online Knowledge Vertical on Urban Resilience was launched, and a book on Solid Waste Management in Post-Disaster Situations was released.

The event concluded with the remarks from Shri Rajendra Ratnoo IAS, Ms. Tora Saikia, GIZ, and Prof. Monika Vij, Delhi University, followed by a vote of thanks by Dr. Garima Aggarwal. Certificate of appreciation were also presented to selected best practices.



From left to right – Dr. Garima Aggarwal, Senior Consultant, Resilient Infrastructure Division, NIDM; Dr. Amir Ali, Associate Professor & Head of Resilient Infrastructure Division, NIDM; Dr. Teresa Kerber, Project Director, SUDSC-II, GIZ, Shri Rajendra Ratnoo, IAS, Executive Director, NIDM, and Col. Palagani Srinivasulu Reddy, Joint Director, NIDM

Inaugural Session

Welcome & Introduction by Dr. Amir Ali Khan, HoD, RID, NIDM

The inaugural session commenced with a warm welcome and introductory remarks by **Dr. Amir Ali Khan**, Head of the Resilient Infrastructure Division (RID), NIDM. Dr. Khan emphasized the importance of integrating climate resilience, disaster risk reduction (DRR), and sustainable urban development into national policies and practices. He elaborated on the project's key achievements, including three comprehensive studies targeting urban resilience:

- Development of a Flood Risk Assessment Framework for Guwahati and Manikonda.
- Policy support for integrating DRR and Climate Change Adaptation (CCA) into Coimbatore's urban development plans.
- Creation of a Training Module on Solid Waste Management in Post-Disaster Situations.



Dr. Khan highlighted the project's knowledge management efforts, which involved developing specialized training modules and conducting stakeholder consultations and regional training programs. He announced the launch of the Online Knowledge Management Portal, aimed at showcasing best practices and fostering discussions on urban resilience.

Special Address by Shri Rajendra Ratnoo, IAS, Executive Director, NIDM

Shri Rajendra Ratnoo, IAS, Executive Director, NIDM, set the tone for the event with his insightful remarks. He began by providing an overview of the collaboration between NIDM and GIZ, initiated in March 2023, which laid the foundation for integrating DRR and CCA into urban development across India. Shri Ratnoo emphasized the significance of this partnership in addressing the increasing challenges posed by climate change and urbanization.

Shri Ratnoo highlighted the critical role of the newly launched Online Knowledge Vertical on Urban Resilience in supporting sustainable urban development. He explained that the portal aligns with the vision of the Ministry of Housing and Urban Affairs (MoHUA) and embodies the principles of risk-informed, inclusive, and sustainable urban growth. The platform will facilitate the exchange of innovative solutions and best practices, empowering stakeholders to implement resilient strategies effectively.

Shri Ratnoo also underlined the importance of capacity building and knowledge sharing as key components of the NIDM-GIZ initiative. He elaborated on the project's comprehensive training modules and stakeholder consultations, which successfully engaged diverse participants, including government officials, urban planners, researchers, and civil society organizations. He further noted that the programs ensured inclusivity, with significant representation of women participants.



Concluding his address, Shri Ratnoo called upon all stakeholders to actively utilize the portal and contribute to building resilient and inclusive cities that can withstand future challenges. He expressed his appreciation for the collaborative efforts of all partners involved and reaffirmed NIDM's commitment to fostering sustainable urban development.

Launching of the Online Knowledge Vertical on Urban Resilience

The Online Knowledge Vertical on Urban Resilience was formally launched by **Shri Rajendra Ratnoo**, IAS, Executive Director, NIDM. This prestigious moment underscored Shri Ratnoo's leadership in championing innovative approaches to urban resilience. The portal aims to serve as a hub for sharing innovative solutions, strategies, and best practices in urban resilience, contributing to resilient and sustainable urban planning.



Address by Shri P. Jayapal, Senior Advisor at the Chennai Metropolitan Development Authority (CMDA)

Shri P. Jayapal, Senior Advisor at the Chennai Metropolitan Development Authority (CMDA), delivered an online address that underscored the dual role of urban areas as engines of growth and centers of challenges.

Shri Jayapal emphasized Chennai's proactive approach to sustainable urban development through its Third Master Plan. Despite occupying less than 1% of Tamil Nadu's area, Chennai houses 10% of its population and contributes 10% of the state's GDP, highlighting its significance. He shared findings from a comprehensive GHG emissions inventory, which revealed that 70% of emissions originate from energy use in buildings, 16% from transportation, and 14% from water and waste management. Shri Jayapal highlighted the importance of integrating climate resilience into urban planning and acknowledged the challenges posed by rapid urbanization, particularly in India. He called for collective efforts to adopt innovative and sustainable practices that balance development and resilience, ensuring a brighter future for cities nationwide.



Book Release on "Solid Waste Management in Post-Disaster Situations"



From left to right- Dr. Garima Aggarwal, Dr. Amir Ali, Dr. Teresa Kerber, Shri Rajendra Ratnoo and Col. Reddy

The session included the release of the book titled **"Solid Waste Management in Post-Disaster Situations"**. This publication aims to provide guidance on addressing waste management challenges in disaster-affected urban areas, ensuring sustainable recovery practices.

Keynote Address by Dr. Teresa Kerber, Project Director, SUDSC-II, GIZ

Dr. Teresa Kerber, Project Director of SUDSC-II, GIZ, delivered the keynote address that highlighted the longstanding Indo-German collaboration on sustainable urban development and disaster resilience. She began by expressing her honor to participate in this significant event and commended the collaborative efforts of NIDM and GIZ in mainstreaming DRR and CCA into urban planning.

Dr. Kerber elaborated on the achievements of the Sustainable Urban Development Strategies II (SDG II) project, citing the development of urban assessment frameworks for cities like Guwahati as a notable outcome. She emphasized the urgency of building resilient infrastructure to address vulnerabilities posed by rapid urbanization, particularly for marginalized groups. With India's urban population projected to grow significantly by 2050, she underscored the importance of investing in climate-resilient infrastructure and evidence-based research to mitigate risks and ensure sustainable growth.



Dr. Kerber praised the proactive measures adopted by Indian cities, including city-level climate action plans, flood-resilient strategies, and heat action plans. She acknowledged the crucial role of the National Disaster Management Act in empowering multi-stakeholder collaboration and disaster management. Concluding her address, she commended NIDM's leadership under Shri Rajendra Ratnool and encouraged participants to actively contribute to fostering resilient, inclusive, and sustainable urban development.

Vote of Thanks by Dr. Garima Aggarwal, Senior Consultant and Project Lead, NIDM

The session concluded with a vote of thanks by **Dr. Garima Aggarwal**, Senior Consultant and Project Lead at NIDM. She expressed gratitude to the dignitaries, participants, and stakeholders for their contributions and encouraged active engagement in the day's discussions. Dr. Aggarwal reiterated the session's key themes, emphasizing the collective effort required to build resilient and sustainable urban systems.



Technical Session I



From left to right- Dr. Garima Aggarwal (Session Moderator), Dr. Ranit Chaterjee (RIKA India Pvt. Ltd.), Dr. Teresa Kerber (Session Chair), Prof. Monika Wij (Session Co-Chair), Shri Vivekananda Gupta and Ms. Bhagawathy (GeoHazards Society)

1.1 Development of Flood Risk Assessment Framework and a Roadmap for Making Cities Resilient by Dr. Ranit Chaterjee, Co-founder, RIKA

The presentation titled "Development of Flood Risk Assessment Framework and a Roadmap for Making Cities Resilient" outlined a structured approach to mitigate urban flooding in Indian cities, with a focus on Guwahati and Manikonda. The project aims to develop a flood risk assessment framework, create city-specific roadmaps, and conduct training sessions for relevant stakeholders. However, the study faced challenges due to limited data availability, community reluctance, and procedural delays caused by elections and floods. In Guwahati, issues such as poor drainage systems, land-use changes, and heavy siltation have led to high vulnerability in specific divisions, affecting critical infrastructure like schools and hospitals. In Manikonda, rapid urbanization, drainage blockages, and encroachments on water bodies have increased flood risks, especially for schools and residential units, exposing communities to potential health hazards. The findings recommend improving drainage systems, conducting regular risk assessments, and enhancing emergency response procedures. Moving forward, the project emphasizes the need for city-specific master plans, advanced flood modeling techniques, and greater community involvement to build resilience against urban flooding through evidence-based practices and active stakeholder participation.



Dr. Ranit Chatterjee, Co-Founder, RIKA presenting the study on "Flood Risk Assessment"

1.2 Policy Support for Mainstreaming DRR & CCA measures into development plans by Dr. Hari Kumar and Ms. Bhagvathy. Geohazard society

The study "Policy Support for Mainstreaming DRR & CCA Measures into Development Plans" focused on integrating Disaster Risk Reduction (DRR) and Climate Change Adaptation (CCA) strategies into urban development frameworks. The study, constrained by a three-month timeline, highlights challenges in aligning urban planning with DRR and CCA due to institutional complexities, data limitations, and varying state-level priorities. Using Tamil Nadu—particularly Coimbatore—as a case study, the presentation identifies issues like flood risk, wetland degradation, urban heat islands, and seismic vulnerabilities. It proposes recommendations at national, state, and city levels to strengthen policies, improve urban planning legislation, and enhance institutional capacity.

Key recommendations include updating disaster management plans, revising building regulations for resilience, and fostering **community participation**. State-level strategies emphasize forming evaluation committees, integrating DRR and CCA into sectoral policies, and promoting sustainable urban development. At the city level, recommendations include hazard mapping, developing risk-informed land-use plans, and enhancing disaster response capabilities. The presentation advocates for a **multi-agency approach** and the use of technology-driven planning tools to ensure effective urban resilience and adaptive capacity-building.

1.3 Module on "Solid Waste Management in Post-Disaster Situations by Shri Vivekanand Gupta. Consultant & Visiting Faculty, SPA, Delhi

This module focused on strengthening Solid Waste Management practices by prioritizing community involvement, especially women, and raising awareness about the negative impact of solid waste and construction debris clogging drains, leading to local flooding. The presentation "**Solid Waste**

Management in Disaster Situations" focused on training mid- and senior-level stakeholders on handling solid waste generated during disasters. It addresses the **impacts of disasters**, such as debris from collapsed buildings, uprooted trees, and contaminated waste, which hinder rescue and recovery efforts. The module highlights case studies from past disasters in India, including the **2001 Gujarat Earthquake, 2018 Kerala Floods, and 2014 Srinagar Floods**, emphasizing the large quantities of waste generated and the challenges faced in managing them. The training module covers the **planning, collection, processing, and disposal** of disaster waste, and stresses the importance of integrating solid waste management into **disaster management plans**. Interactive learning activities, case studies, and guidelines from international bodies (UNEP, WHO) are included to enhance capacity building, ensure proper waste handling, and promote resilient waste management practices during emergencies.

Technical Session II



From left to right- Dr. Garima Aggarwal (Session Moderator), Mr. Repaul Kanji (GRRID Corps), Ms. Tora Saikia (Session Co-Chair), Prof. Monika Wij (Session Chair) and Dr. Noyingbeni Kikon (Nagaland SDMA)

Session Highlights:

- This session has been developed for showcasing best practices and success stories on urban risk reduction. NIDM has launched a Knowledge Vertical on Urban resilience. It will serve as a repository for sharing of best practices, highlighting successful interventions that have strengthened resilience in diverse urban settings. The platform will foster cross-learning, encourage collaboration, and support evidence-based policy formulation at the national level.
- NIDM invited submissions from a wide range of stakeholders, including state governments, city

administrations, line departments, academic institutions, universities, private entities, and NGOs, to showcase exemplary initiatives and strategies that have contributed to urban resilience in their respective regions.

- A Scrutiny Committee and Approval Committee were formed to evaluate the entries. After review, the Scrutiny Committee submitted recommendations to the Approval Committee, which selected 14 best practices for the Knowledge Portal and 3 entries for presentation at the CoP.

2.1: Building Vulnerability and Risk Assessment (BVRA) of Agartala City, led by Dr. Jenith M. Nongkynirh, Head of the Urban & Planning Department at NESAC. [\(Online Mode\)](#)

The presentation focused on the “Risk Information Master Plan” project. The study outlines the **Hazard, Vulnerability, and Risk Assessment (HVRA)** project for Agartala City, Tripura, led by the North Eastern Space Applications Centre (NESAC). This initiative aimed to mitigate flood risks in the rapidly urbanizing city through advanced remote sensing and GIS techniques.

Key Highlights

1. **Flood Inundation Mapping:** Used Sentinel-1A SAR data to create near-real-time flood hazard maps during the August 2024 floods, covering 374 hectares of inundated areas.
2. **Building Vulnerability Assessment:** Analyzed structural characteristics to categorize buildings into low, moderate, high, and very high vulnerability zones.
3. **Socio-Economic Integration:** Combined physical and socio-economic data to identify at-risk populations, prioritizing effective disaster interventions.
4. **Urban Planning:** Supported land-use regulations, early warning systems, and flood mitigation strategies tailored to vulnerable areas.
5. **Challenges:** Faced difficulties in data consistency, socio-economic integration, and limited local expertise for implementing findings.

Outcomes of the study

The project provided actionable insights for disaster preparedness and urban planning, offering a model for integrating technology and community resilience. It emphasized the importance of capacity building, public awareness, and multi-stakeholder collaboration to address growing flood risks effectively.

2.2 Disaster Risk Transfer Parametric Insurance Solution (DRTPS) in Nagaland SDMA, to be presented by Dr. Noyingbeni Kikon, Project coordinator at NSDMA

This initiative strengthens the state’s ability to recover after disasters, financially protects populations and critical infrastructure, and improves the government’s capacity for a quicker, more efficient response. The presentation highlights Nagaland's Disaster Risk Transfer Parametric Insurance Solution (DRTPS), a pioneering initiative launched on August 2, 2024, to address gaps in disaster risk financing. Key features include:

1. **Parametric Insurance Model:** Provides rapid payouts based on predefined disaster thresholds, such as rainfall intensity, ensuring quicker financial assistance compared to traditional insurance.

2. **Collaborations:** Implemented with support from the InsuResilience Solution Fund, in partnership with SBI General Insurance, GIC-Re India, and Munich Re.
3. **Objective:** Enhances Nagaland's capacity to "Build Back Better," ensuring financial protection for its population and infrastructure while improving disaster response efficiency.
4. **Significance:** This is India's first initiative of its kind, showcasing an innovative approach to disaster resilience through financial mechanisms.

The initiative aims to reduce the financial burden on the government and affected communities, supporting sustainable recovery and resilience.



Speaker: Dr. Noyingbeni Kikon, Project coordinator, Nagaland SDMA

2.3: Cuttool / Sanchay Project for Urban Resilience: Dr. Repaul Kanji, Co-founder, GRRID Corps, a start-up

They have built India's first Heat Action Plan which integrates local knowledge for climate action. Their work outlines a comprehensive initiative in Jodhpur, India, focusing on urban resilience through community engagement, policy development, and technological innovation. The project addressed critical issues like extreme heat, urban flooding, and socio-economic vulnerability while integrating traditional knowledge with modern strategies.

Key achievements include:

1. **Heat Action Plan (HAP):** Developed India's first HAP incorporating local and cultural insights, improving awareness and adaptive strategies against extreme heat.

2. **Community Engagement:** Collaborative workshops with women and youth revealed local challenges and knowledge, enabling co-designed solutions like vernacular architectural practices to combat Urban Heat Island effects.
3. **Technological Innovation:** Devices like the "tiffin-box" were created to monitor microclimate conditions, informing hyperlocal heat stress thresholds and potential warning systems.
4. **Addressing Urban Flooding:** Root causes were identified, such as disrupted waterbody management and altered groundwater levels, leading to community-driven conservation efforts.
5. **Capacity Building:** Interactive programs educated youth, empowered communities, and promoted sustainable development practices.

The project highlights the fusion of science, culture, and policy to create sustainable urban resilience.



Speaker: Dr. Repaul Kanji, Co-founder, GRRID Corps

Valedictory Session

The session concluded in the presence of Shri Rajendra Ratnoo, Executive Director of NIDM, Ms. Tora Saikia, Prof. Monika Vij, and Dr. Garima Agarwal. During the event, certificates were awarded to the presenters in recognition of their outstanding contributions and exemplary community practices.



From left to right- Dr. Garima Aggarwal; Ms. Tora Saikia; Shri Rajendra Ratnoo, IAS; Prof. Monika Vij

The session concluded with a note from the Executive Director, who congratulated all participants and commended the presenters for sharing exemplary best practices. He also extended a heartfelt vote of thanks to the GIZ team for their dedication and effort in successfully completing the collaborative project. ED sir also mentioned about the way forward which included several key actions to enhance flood resilience and disaster preparedness. **Regular situation assessments** should be conducted to keep stakeholders informed about evolving flood risks, building code violations, and other pertinent issues. **Flood risk assessment practices** need improvement through advanced modeling techniques, incorporating factors such as discharge frequencies, rainfall data from all rain gauge stations, and elevation surveys, including High Flood Level (HFL) data. A **city-specific drainage master plan** should be developed, taking into account detailed topography, elevation, soil conditions, and land use to address flooding comprehensively. Additionally, it is essential to **inspect critical infrastructure** identified in the study and perform regular audits to facilitate retrofitting and ensure structural safety. **Community involvement** must be strengthened, particularly by encouraging women's participation, to boost public awareness and decision-making processes related to Solid Waste Management (SWM) and Construction & Demolition (C&D) waste. Lastly, **emergency response procedures** should be enhanced through participatory learning activities that engage vulnerable communities, ensuring they are well-prepared for potential disasters.

List of Participants

S.no	Name	Designation	Organization
1.	Dr. Teresa Kerber	Project Director, SUDSC-II	GIZ
2.	Dr. Priyanka Jindal	Consultant	NDMA
3.	Ms. Tora Saikia	Technical Advisor	GIZ
4.	Ms. Shweta Dua	Technical Advisor	GIZ
5.	Ms. Moumita Shaw	Technical Advisor	GIZ
6.	Mr. Arpan Mazumdar	Technical Advisor	GIZ
7.	Dr. Deep Narayan Pandey	Professor	JNU
8.	Monika Vij	Associate Professor	Miranda House, DU
9.	Dr. Shailendra kumar	Assistant Professor	DU
10.	Dr. Nakul Tarun	Director	Zone4Solutions
11.	Rajpal Meena	Executive Engineer	Najafgarh Zone MCD
12.	Sh. Raman Kumar Singh	Sr. Urban Development Specialist	NIUA
13.	Mr. Vivekananda Gupta	Short-term Consultant	NIDM
14.	Mr. Pranav	Project Coordinator	GHS
15.	Ms. Shivangi	Project Assistant	GHS
16.	Mr. Ranit Chaterjee	Co-Founder	RIKA
17.	Mithun	Research Scholar	JNU
18.	Dipankar Das	Assistant Commissioner	GMC
19.	Yathrath Kohli	Research Scholar	JNU
20.	Saurabh Kumar	Research Scholar	JNU
21.	Jasbir Singh	Sanitary Inspector	DAMS
22.	Unnimaya B	Urban Expert	NIUA
23.	Ms. Yasmin Ara Begum	Manager Environment	EPMCind
24.	Mr. Sayan Das	Manager	EPMCind
25.	Deepa		DDMA
26.	Vibhati Singh		DDMA
27.	Pushpender	Assistant Professor	Miranda House, DU
28.	Tripti Varshnay		DDMA
29.	Yulbir Malik	Junior Engineer	DUSIB
30.	Hemant Kumar		DPO HQ
31.	Saurabh	DM	DDMA
32.	Bhagavathy		GHS
33.	Sosinle Seb	PDA	Nagaland SDMA
34.	Dr. Noyingbeni Kikon	Project Coordinator	Nagaland SDMA
35.	Vijendar		MCD(South)
36.	P.C Pandey		MCD(South)
37.	Repaul Kani	Co-Founder	GRRID Corps
38.	Jasbir Singh		MCD
39.	Abhinav Walia	Sr. Consultant	NDMA
40.	Sayan Das	Sr. Manager	EPMCind
41.	A.K Gautam	JE	MCD
42.	Santosh Rohila	Project Coordinator	DDMA
43.	Chander Prakash		DPO(DDMA)
44.	Rajkumar	Project Coordinator	DDMA
45.	Sarvanan	Assistant Professor	Kumaraguru Institutions
46.	Dr. Aman Kumar Dubey	Assistant Professor	Kumaraguru Institutions
47.	Faisan Athar		DDMA East
48.	Cachmunsiami		Mizoram University

49.	Dr. Laldinpuia	Associate Professor	Mizoram University
50.	Dr. Sunaina	Assistant Professor	Delhi University
51.	Nisha	Project Coordinator	DDMA Southwest
52.	Savita	Accounts Officer	RIKA India
53.	Krishnakali Ghosh	Program Manager	RIKA
54.	Yashika Luthra	Project Coordinator	DDMA HQ
55.	Smriti Saxena	Project Officer	DDMA Shahdara
56.	Pooja	Project Coordinator	DDMA North east
57.	Shubham Gupta	Research Scholar	JNU
58.	Nirmala Aggarwal	Project Coordinator	DDMANorthwest
59.	Ajay Pandey	JE (Disaster Najafgarh)	MCD
60.	Parmod Kr. Singhal	AE (Narela Zone)	MCD
61.	Amit Kumar	Student	JNU
62.	Saurabh Gokhale	JE	MCD
63.	Jagmohan Sharma	AE	MCD

From NIDM

S.no	Name	Designation
1	Dr. Amir Ali Khan	Associate Professor, HOD, RID
2	Dr. Garima Aggarwal	Senior Consultant
3	Dr. Ajinder Walia	Associate Professor
4	Ms. Prerna Joshi	Assistant Professor
5	Mr. Pankaj Kumar	Assistant Professor
6	Mr. Gagandeep	Assistant Professor
7	Ms Ritu Sood	Administrative Officer
8	Shri Hemant Kumar	Computer Programmer
9	Shri Amar Singh	Machine Operator
10	Shri Laxman Singh	Messenger
11	Ms. Jaya	Library Attendant
12	Dr. Preeti Soni	Sr. Program Consultant(IUINDRR)
13	Sh. Sanjay Kumar	Consultant OL
14	Sh. Devasis Bose	Specialist Consultant
15	Sh. Adi Ram	Consultant(Training Coordinator)
16	Dr. Ganesh Narayan Choudhary	Consultant(Academic Coordination)
17	Ms. Koyal Sindhu	Jr Consultant(IUINDRR)
18	Sh. Dharmendra Yadav	Developer
19	Ms. Annayesha Purkit	Young Professional
20	Ms. Priyanka Sharma	Jr Consultant
21	Sh. Ritesh Singhal	Jr Consultant (Record management)
22	Sh. Ajay Singh Negi	IT Jr. Consultant
23	Ms. Ritu	Junior Consultant
24	Sh. Arvind Kavia	Project Coordinator
25	Sh. Shreyash Dwivedi	Technical Assistant
26	Sh. Sahil Wadhwa	DEO
27	Ms. Kratika Pandey	Young Professional
28	Sh. Arshad Azmi	Young Professional
29	Ms. Sachita Biswas	Young Professional
30	Ms. Amreen Khan	Young Professional

31	Ms Pragati Mishra	Young Professional
32	Ms. Pooja Taneja	Steno
33	Mr. Vishal	Steno
34	Mr. Hemant	DEO
35	Mr. Abhey Kumar	IT Engineer
36	Mr. Himanshu Khatri	IT Engineer
37	Mr. Nauman	Jr. Consultant (Media)
38	Sh. Rajkumar	MTS
39	Mr Ashish	MTS
40	Mr. Bheem	MTS

Photographs





Annexure

National Workshop on Communities of Practice:

“Enabling Cities on Disaster Risk Reduction and Climate Change Adaptation for Sustainable Urban Development in India”

Date: 28th November, 2024

Venue: NIDM Campus, Plot No. 15, Pocket B3, Sector 29, Rohini, New Delhi

Tentative Program Schedule

Time	Session Title	Speakers/ Facilitators
10:00-11:00 am	Registration and Welcome	NIDM
11:00-11:45 am	- Welcome & Introduction by Dr. Amir Ali Khan, HoD, RID, NIDM - Special Address by Shri Rajendra Ratnool, IAS, Executive Director, NIDM - Launching of “Online Knowledge Vertical on Urban Resilience” - Keynote Address by Shri Anshul Mishra, IAS, Member Secretary, Chennai Metropolitan Development Authority - Release of Book on “Solid Waste Management in Post Disaster Situation” - Keynote Address by Dr. Teresa Kerber, Project Director, SUDSC-II, GIZ - Vote of Thanks by Dr. Garima Aggarwal, Sr. Consultant & Project Lead, NIDM	
11:45 – 12:15 pm	High Tea & Group Photo	
<u>Outcome of Research studies on Urban Resilience</u> Session Chair: Dr. Teresa Kerber, Project Director, SUDSC II, GIZ Session Co-chair: Prof. Monika Wij, University of Delhi Moderated by Dr. Garima Aggarwal, NIDM <u>(12:15- 01:45 pm - 20 Mins sessions and 10 mins discussion for each)</u>		
	Presentation 1: Flood Risk Assessment Framework and Roadmap for Making Cities Resilient for the cities of Guwahati & Manikonda	Dr. Ranit Chatterjee Director, RIKA
	Presentation 2: Mainstreaming Disaster Risk Reduction (DRR) and Climate Change Adaptation (CCA) measures the Development Plan- Coimbatore City	Dr. Hari Kumar and Ms. Bhagavathy, Geo Hazard Society
	Presentation 3: Training Module on Solid Waste Management in Post-Disaster Situations	Shri Vivekanand Gupta Consultant & Visiting Faculty, SPA, Delhi
01:45 – 02:00 pm	Comments of Experts/ resources and participants	
02:00 – 03:00 pm	Lunch Break	

03:00 – 03.40 pm	<u>Best Practices on Urban Resilience</u> Session Chair: Prof. Monika Wij, University of Delhi Session Co-chair: Ms. Tora Saikia, Technical Advisor, GIZ Moderated by Dr. Garima Aggarwal, NIDM	
	Presentations on Best Practices (i) Building Vulnerability and Risk Assessment of Agartala City (ii) Disaster Risk Transfer: Parametric Insurance Solutions (iii) Cuttool/Sanchay Project for Urban Resilience	Dr. Jenita M Nongkynirh, Sci/Eng SF, Head of the Department, Urban & Planning region, NESAC Department of Space, GoI Dr. Noyingbeni Kikon, Project Coordinator, SDMA, Nagaland Dr. Repaul Kanji, Co-founder, GRRID Corps.
03:40 – 04:00 pm	Concluding Session- Way Forward • Remarks by Dr. Garima Aggarwal, Project Lead • Remarks by the chair/co-chair of the sessions • Concluding remarks by rep. from GIZ/ MoHUA • Way forward by Shri Rajendra Ratnoo, IAS, Executive Director, NIDM	
04:00 pm	High Tea	