



Training Report

National Program for Capacity Building on Post-Disaster Needs Assessment (PDNA) & Long-Term Recovery

March 18 - 20, 2024

ORGANIZED BY

NATIONAL INSTITUTE OF DISASTER MANAGEMENT,
(Ministry of Home Affairs, Government of India), Plot no. 15,
Pocket-3, Block - B, Sector-29, Rohini, Delhi -110042

IN COLLABORATION WITH

Indian Universities and Institutions Network for Disaster Risk Reduction (IUINDRR), Plot no.15, Pocket-3, Block-B, Sector-29, Rohini, Delhi-110042



Brochure




NATIONAL PROGRAM FOR CAPACITY BUILDING

ON

POST-DISASTER NEEDS ASSESSMENT (PDNA) & LONG-TERM RECOVERY

March 18-20, 2024

ABOUT NIDM

The National Institute of Disaster Management (NIDM), Ministry of Home Affairs, Government of India is a premium institute and a Statutory Body (under the Disaster Management Act 2005) for training, research, documentation, awareness and human resources and capacity development in the field of disaster mitigation and management. The institute lays emphasis on a multi-stakeholder interdisciplinary cross-sectoral approach for an efficient proactive continuum disaster risk management based on a participatory integrated multi-risk management concept. It aims towards a disaster-free and resilient India.

ABOUT IUINDRR

To address the commitment of India and keeping the importance of Universities and Institutions, India Universities and Institutions Network for Disaster Risk Reduction (IUINDRR-NIDM) was established by NIDM. In this network, besides NIDM, several esteemed Universities and Institutions will come together to share knowledge, resources related to disaster risk management amongst themselves and to the larger group of stakeholders working on DRR. This Network will also have representations from University Grants Commission, All India Council for Technical Education and Association of Indian Universities.

BOARDING, LODGING AND VENUE OF THE PROGRAMME

The programme will be hosted at the National Institute of Disaster Management, Delhi Campus.

REGISTRATION

For online registration at NIDM Training Portal, please go to the Registration Link: <https://training.nidm.gov.in/> Or Scan the QR Code for Registration.



ORGANIZING TEAM

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Shri **Rajendra Rajoo, IAS**,
Executive Director,
National Institute of Disaster Management
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Praty, Santosh Kumar
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National Institute of Disaster Management
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Programme Associate
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Associate Professor & Head
Governance & Inclusive Disaster Risk Reduction (GIIRR) Division and
Disaster Response and Recovery (DRR) Divisions
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Mr. Abhishek
MTS
National Institute of Disaster Management





OBJECTIVES

- To strengthen the district and state authorities with trained human resources.
- Explain the new PDNA tools
- Engage them in the process of computing the Damage & Loss assessment
- Examining sector-wise damage and loss assessment
- Strategy for DRR and Long-term Recovery

TARGET GROUP

The target group of this national programme who will come as participants would be the senior-level state government officials of various sectors like Education (Higher Secondary and Secondary), Power, Telecom, Roads and Bridges, Health, Housing, Water, Sanitation and Hygiene (WASH), Disaster Risk Reduction, Agriculture and Livelihood, etc. and faculty members of the universities and institutes under IUINDRR with minimum experience of 8-10 years.

CERTIFICATE

A certificate of participation will be awarded to the participants on successful completion of the course.

EVALUATION OF THE PROGRAMME

The training programme shall have a dedicated session for feedback and validation. The participants will be provided with a valuation form, which may be completed and handed over to the programme coordinator.

BASIC COURSE STRUCTURE

- Session 1:** The present post-disaster assessment in India

- Session 2:** The PDNA conceptual framework and Pre-Disaster Context & Baseline data
- Session 3:** Disaster Effects and Damage & Loss Assessment
- Session 4:** Sector (Housing, Education, Infrastructure, Agriculture and Allied Activities, Water, Sanitation and Hygiene (WASH), Agriculture, Livelihood, Disaster Risk Reduction)
- Session 5:** Recovery Policy, planning and financing in India
- Session 6:** Preparation for Report Writing (PDNA)
- Session 7:** Valedictory session

RESOURCE MATERIAL

- PDNA Training of Trainer (ToT) Module: Post Disaster Needs Assessment (PDNA), Study for India National Cyclone Risk Mitigation Project (NCRMP) https://nidm.gov.in/PDF/Modules/PDNA_PROF_2_021.pdf
- Manual Post Disaster Needs Assessment (PDNA), India (Volume I) https://nidm.gov.in/PDF/pubs/pdna_manual_vol1.pdf
- Manual Post Disaster Needs Assessment (PDNA), India (Volume II) https://nidm.gov.in/PDF/pubs/pdna_manual_vol2.pdf
- Standard Operating Procedures PDNA https://nidm.gov.in/PDF/pubs/sop_pdna.pdf
- Disaster Management Plan, NDMA https://ndma.gov.in/sites/default/files/PDF/ndm_p-2019.pdf
- National Guidelines for Recovery and Reconstruction, NDMA https://www.ndma.gov.in/sites/default/files/2021-03/Draft_Guidelines_Recovery_Reconstruction.pdf
- PM 10 Point Agenda on DRR https://ndma.gov.in/Reference_Material/PM_Ten_Agenda%20-%20xt%20is%20a%20need%20for%20cover%20major%20infrastructure%20projects%20%E2%94%B2
- Sendai Framework for DRR (2015-30) https://www.un.org/en/development/desa/population/migration/generalassembly/docs/globalcompact/A_RES_69_283.pdf

Jointly Organised by

National Institute of Disaster Management
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Tel No. : 011-20873412

Organizing Team

Patrons

Shri Rajendra Ratnoo, IAS
Executive Director,
National Institute of Disaster Management



Programme Director

Prof. Santosh Kumar
Senior Advisor, NIDM, Director IUINDRR NIDM, Head
CCDRR-NIDM



Programme Associate

Dr. Ajinder Walia
Associate Professor & Head
Governance & Inclusive Disaster Risk
Reduction (GIDRR) Division and Disaster
Response and Recovery (DRR) Divisions
National Institute of Disaster Management



Dr. Preeti Soni
Senior Programme Consultant
Indian University and Institutions Network
for Disaster Risk Reduction
National Institute of Disaster Management



Programme Coordinator

Ms. Annyesha Purkait
Young Professional
Centre for PDNA, GIDRR
National Institute of Disaster Management



Ms. Shipra Das
Young Professional
Centre for Financial Resilience, GIDRR
National Institute of Disaster Management



Programme Assistance

Ms. Santosh Mishra
Training Assistant
National Institute of Disaster Management



Ms. Geeta Sharma
Training Assistant
National Institute of Disaster Management



Mr. Abhishek
MTS
National Institute of Disaster Management

Resource Persons

Prof. Santosh Kumar
Senior Advisor, NIDM,
Director IUINDRR NIDM,
Head CCDRR-NIDM



Ms. Ranjini Mukherjee
Director - Research, Knowledge Management
and Capacity Development, CDRI



Dr. Avneet Randhawa
Physician, Dept. of Health and Family Welfare,
Govt. of Punjab



Mr. Mukunda Upadhyay
Senior Consultant,
UNICEF, Guwahati



Dr. Prabir Kumar Das
Independent Housing Expert



Mr. Anup Karanth
Senior Disaster Risk Management Specialist,
The World Bank



Dr. Partha S Banerjee
Director,
DEX-DEFT Research and Consulting, New Delhi



Ms. Karina Malczewska
WASH Specialist,
UNICEF India



Dr. Eilia Jafar
DRR Specialist,
Co - Founder, Tanyak



Shri Krishna S. Vatsa
Member, NDMA



National Programme for Capacity Building
on
Post-Disaster Needs Assessment (PDNA) & Long-Term Recovery

March 18 - 20, 2024

Course Description: The National Institute of Disaster Management (NIDM) in collaboration with the Indian Universities and Institutions Network for Disaster Risk Reduction, will be organising a 3-Day National Programme for Capacity Building of Faculty on PDNA for Long-term Recovery. The training programme will cover the following:

- Understanding the concepts of damage, loss, and recovery needs
- Understanding the methodology for sector-wise assessment and will cover productive sectors (agriculture, irrigation and allied activities); social sectors (health, education and housing), infrastructure (roads and bridges, power and telecom, WASH) and cross-cutting sectors (gender and social inclusion and DRR)
- Estimation of Recovery Needs
- Development of Recovery Strategies
- Understanding the framework for recovery planning, financing, and implementation in the context of India

RESOURCE MATERIAL

- PDNA Training of Trainer (ToT) Module
https://nidm.gov.in/PDF/Modules/PDNA_PROF_2021.pdf
- Manual Post Disaster Needs Assessment (PDNA), India (Volume I)
https://nidm.gov.in/PDF/pubs/pdna_manual_vol1.pdf
- Manual Post Disaster Needs Assessment (PDNA), India (Volume II)
https://nidm.gov.in/PDF/pubs/pdna_manual_vol2.pdf
- Standard Operating Procedures PDNA https://nidm.gov.in/PDF/pubs/sop_pdna.pdf
- National Guidelines for Recovery and Reconstruction, NDMA
(https://www.ndma.gov.in/sites/default/files/2021-03/Draft_Guidelines_Recovery-Reconstruction.pdf)
- PM 10 Point Agenda on DRR
(https://ndma.gov.in/Reference_Material/PM_Ten_Agenda#:~:text=There%20is%20a%20need%20for,cover%20major%20infrastructure%20projects%20%E2%96%B2)
- Sendai Framework for DRR (2015-30)
(https://www.un.org/en/development/desa/population/migration/generalassembly/docs/globalcompact/A_RES_69_283.pdf)

Day 1 (March 18, 2024)

Sl. No.	Time (Hrs.)	Topic	Resource Person
1.	9:30 – 10:30	Registration of Participants	
2.	10:30 – 11:00	Questionnaire & Expectations	
Inaugural Session			
3.	11:00 – 11:10	Welcome Address & Opening Remarks	Dr. Ajinder Walia Associate Professor, NIDM
	11:10 – 11:30	Keynote Address and Inaugural Address	Prof. Santosh Kumar Senior Advisor, NIDM
	11:30 – 12:00	<i>Tea Break</i>	
4.	Disaster Management System in India, Sendai Framework for DRR, PM 10-point Agenda on DRR		
	12:00 – 13:30	<ol style="list-style-type: none"> 1. Introduction of DM 2. Concepts of DM 3. Institutional Framework 4. Introduction to PDNA and Disaster Management Cycle 5. Disaster Effects and Damage & Loss Assessment - Group Exercise on Damage and Loss Assessment to understand the general principles of estimating damages and loss and costing disaster effects. 	Prof. Santosh Kumar, Senior Advisor, NIDM
	13:30 – 14:30	<i>Lunch Break</i>	
5.	14:30 – 15:30	The PDNA Conceptual Framework <ol style="list-style-type: none"> 1. Concepts and definitions. 2. The sectors for assessment. 3. Inter-sectoral linkages. 4. Damage and loss. 	Ms. Ranjini Mukherjee, Director - Research, Knowledge Management and Capacity Development, CDRI
		Pre-Disaster Context & Baseline Data <ul style="list-style-type: none"> ● To understand the pre-disaster context and how to identify sources of baseline data. Use of Data and Imagery: To understand what systems and mechanisms exist and how they can be used to strengthen data collection.	
	15:30 - 16:00	<i>Tea Break</i>	

Day 2 (March 19, 2024)

Sl. No.	Time (Hrs.)	Topic	Resource Person
1.	10:00 – 10:15	Recapitulation	Ms. Annyesha Purkait, YP, NIDM
2.	10:15 – 11:00	PDNA in Health Sector	Dr. Avneet Randhawa, Dept. of Health and Family Welfare, Govt. of Punjab
	11:00 – 11:15	<i>Tea Break</i>	
3.	11:15 – 12:30	PDNA in Education Sector	Dr. Mukunda Upadhyay, Senior Consultant, UNICEF, Guwahati
4.	12:30 – 14:00	Sectorwise Parallel Sessions of PDNA	
		Housing Sector	Dr. P. K. Das, Independent Housing Expert
		Infra Sector Assessment <i>(Roads, Bridges, Power and Telecom)</i>	Mr. Anup Karanth, Senior Disaster Risk Management Specialist, The World Bank
		Livelihood Sector	Dr. Partha S Banerjee, Director, DEX-DEFT Research & Consulting
		The Social Sector – WASH	Ms. Karina Malczewska, WASH Specialist, UNICEF
	14:00 – 15:00	<i>Lunch Break</i>	
5.	15:00 – 16:00	Disaster Risk Reduction Sector <i>(cross-cutting sectors - gender and social inclusion and DRR)</i>	Dr. Eilia Jafar, DRR Specialist, Co - Founder and Director, Tanyak
	16:00 – 16:30	<i>Tea Break</i>	

Day 3 (March 20, 2024)

Sl. No.	Time (Hrs.)	Topic	Resource Person
1.	10:00 – 10:15	Recapitulation	Ms. Annyesha Purkait, YP, NIDM
2.	10:15 – 11:30	Recovery Policy, planning and financing in India 1. Identification of needs 2. Prioritization of needs 3. Estimation of the amount of recovery needs 4. Developing the recovery framework 5. Planning for Long-Term Recovery 6. Data Collation	Prof. Santosh Kumar, Senior Advisor, NIDM
	11:30 – 12:00	<i>Tea Break</i>	
3.	12:00 – 13:30	Recovery and Financing in PDNA	Shri Krishna S. Vatsa, Member, NDMA
	13:30 – 14:30	<i>Lunch Break</i>	
4.	Valedictory Session		
	14:30 – 16:00	Feedback from the participants	
		Address by Shri Rajendra Ratnoo, IAS, ED, NIDM	
		Address by Prof. Santosh Kumar, Senior Advisor, NIDM	
		Concluding Remarks by Col. P.S. Reddy, Joint Director, NIDM (South Campus)	
		Vote of Thanks by Ms. Annyesha Purkait, YP, NIDM	
		Certificate Distribution	
	16:00 – 16:30	<i>Tea Break</i>	

Brief Profile of Resource Persons

Prof. Santosh Kumar

Senior Advisor, NIDM, Director IUINDRR NIDM, Head CCDRR-NIDM

Experience

Professor Santosh Kumar is currently working with the National Institute of Disaster Management (NIDM) having several responsibilities, he is the Head of Governance & Inclusive Disaster Risk Reduction and Disaster Response & Divisions; Director of India Universities & Institutions Network for Disaster Risk Reduction (IUINDRR); and also the Project Director of Child Centric Disaster Risk Reduction (CCDRR).



He has also served NIDM as an Executive Director (I/C). From 2013 to 2015, Prof. Kumar worked as the Director of the SAARC Disaster Management Centre. Before joining NIDM, Prof. Kumar worked with The World Bank in the capacity of Disaster Management Specialist, where he was involved in recovery programmes for the Gujarat Earthquake of 2001, the Super Cyclone of Odisha, and Andhra Pradesh recovery project. He has also worked at state levels in different positions at UP Academy of Administration (now known as Dr. R S Tolia Uttarakhand Academy of Administration), Nainital; and Rajasthan Institute of Public Administration (RIPA), Jaipur. He is a Disaster Risk Reduction, Policy Planning, and Capacity Development expert with more than 30 years of experience in different Development Planning and DRR Sectors positions. Prof. Kumar holds a Ph.D. in Economics, he studied Gender & Development in IDS, Sussex, UK, and received professional training in Disaster Risk Management from Israel. He is an experienced hand in designing, Planning, and implementing mitigation and long-term disaster recovery plan and projects. He brings with him a rare combination of operations and academia.

Ms. Ranjini Mukherjee

Director - Research, Knowledge Management and Capacity Development, CDRI

Experience

Ms. Ranjini Mukherjee is the Director - Research, Knowledge Management and Capacity Development in Coalition for Disaster Resilient Infrastructure (CDRI). She has more than 20 years of experience in the field of Disaster Risk Reduction (DRR) at the national, regional and local level in India. She has worked for more than 14 years with the United Nations (UNDP-India, UNDRR and UN Resident Coordinator's Office)



where she managed large-scale programmes and initiatives on DRR in a leadership role, while engaging with various stakeholders and multi-disciplinary teams. She has also been a part of many important initiatives of GOI in the field of DRR. Prior to joining CDRI, she was with the UN Resident Coordinator's Office in India, responsible for coordinating and advancing the system-wide efforts on DRR and resilience and formulation of the GOI-UN Sustainable Development Cooperation Framework (2023-2027). Her expertise lies in reconstruction and recovery planning, earthquake risk management, urban resilience, disaster risk governance and policy planning, post-disaster needs assessment, knowledge management, training and capacity building and programme management.

Dr. Avneet Randhawa

Physician, Dept. of Health and Family Welfare, Govt. of Punjab

Experience

Dr. Avneet Randhawa is currently working as a physician in Directorate of Research and Medical Education since last 10 years. Along with this she is a Preventive Medicine and Public Health Expert, Consultant of Disaster Risk Reduction and National Consultant of CHD Group. She is ECFMG (USA) Certified. She did her post graduate in Community Health and Preventive Medicine from Government Medical College, Patiala. She did



Bachelor of Medicine and Bachelor of Surgery from Maulana Azad Medical College.

Mr. Mukunda Upadhyay

Senior Consultant, UNICEF, Guwahati

Experience

Mr. Mukunda Upadhyay is working as a Senior Consultant - Disaster Risk Reduction in UNICEF, Guwahati. Previously he worked here as Regional Consultant for Assam and other north – eastern states. He was also a Senior Technical Expert in Assam State Disaster Management Authority. Prior to these he was the Programme Officer – DRR and Health Preparedness Coordinator in OXFAM India. He also worked as a Research Associate in Indian Council of Social Sciences Research (ICSSR). He completed his PhD and M.Phil from Jawaharlal Nehru University (JNU) and did Master in Population Studies from International Institute for Population Sciences.



Dr. Prabir Kumar Das

Independent Housing Expert

Experience

Dr. Prabir Kumar Das is a design and construction specialist with specific technical experience in Project Appraisal, Planning, implementation and Maintenance Management of community-based construction (specially, education & healthcare infrastructure). As a consulting architect Dr. Das has worked for UNDP, UNHABITAT, ARCADIS BMB, INGOs, Government of India, etc. He did his PHD in Sustainability Impact Assessment Tool For Selected Building Technologies In Rural India: The Case Of The Andhra Pradesh Primary Education Project (2006), University of Newcastle upon Tyne, UK. He taught at Jadavpur University between 1989-1992. Since then he has been teaching off and on as visiting faculty at leading institutes in India. Dr. P.K. Das is an Active Member of the NATIONAL TASK FORCE on RURAL HOUSING AND HABITAT, Government of INDIA, Ministry of



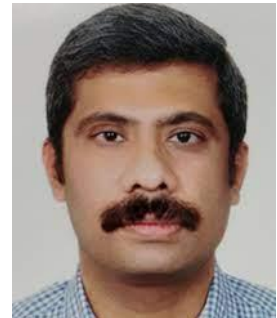
Rural Development.

Mr. Anup Karanth

Senior Disaster Risk Management Specialist, The World Bank

Experience

Mr. Anup Karanth joined The World Bank in 2015 and serves as Senior Disaster Risk Management Specialist. He has over 14 years of experience and has led several national and regional disaster risk management programmes/projects in South and Southeast Asia. He works in design and implementation of risk mitigation and disaster recovery projects, strengthening institutional mechanism and capacity building for disaster risk reduction. He has strong interests in risk assessment, seismic risk management, development control regulations, code implementation, urban climate change resilience and public safety. Prior to the World Bank, he served for seven years at TARU Leading Edge Pvt. Ltd. and was co-leading the thematic area of Risk & Resilience. During the period 2007-2008, he held the position of Technical Specialist at RIMES - Thailand and Programme Manager at ADPC Thailand. He was associated with UNDP (2003-2006) in the capacity of National Project Coordinator - National Urban Earthquake Vulnerability Reduction Project. He also served as a member of the Technical Advisory Group set by the National Disaster Management Division (MHA) and UNDP. He has undertaken damage assessment studies as part of the Joint Assessment Missions and Post Disaster Reconnaissance Missions in India and Bhutan. He is visiting faculty to national / state level training institutions and academic institutions in India. He holds a Master's Degree in Environment Planning and Bachelor's Degree in Construction Technology from CEPT University, Ahmedabad, Gujarat.



Dr. Partha S Banerjee

Director, DEX-DEFT Research and Consulting, New Delhi

Experience

Dr. Partha S Banerjee is the Director of DEX-DEFT Research and Consulting. He has 30 years of

research and consulting experience working with national and provincial Governments, multilateral and bilateral institutions, multiple UN Agencies reputed State-Owned Enterprises, apex industry associations, and the private sector. Professionally, he manages his entrepreneurial venture, a socio-economic policy research firm, wherein he works in Asia and Africa. Earlier, as a Partner in PricewaterhouseCoopers, and then in KPMG, he successfully delivered large, multidisciplinary, public projects; both in India and overseas. He holds a Bachelor of Technology (Hons.) and Master of Business Management, both degrees from IIT Kharagpur and a Ph. D. from IIT Delhi. He is well-published internationally and a reviewer in Scopus-Indexed, reputed international Journals.



Ms. Karina Malczewska

WASH Specialist, UNICEF India

Experience

Ms. Karina Malczewska is right now working as a WASH Specialist in UNICEF India. Before that she was associated with UNICEF Europe & Central Asia Regional Office as a WASH Specialist. Talking about her previous experiences, she was WASH Cluster Coordinator in International Medical Corps, Environmental Engineer in United Nations, Rehabilitation/WASH Coordinator in Danish Refugee Council and East & Southern Africa WASH Advisor in CARE. She has more than 15 years of solid and diverse experience in the field of environmental engineering, water treatment and supply, sanitation and waste management, with over 12 years of strong technical field experience in planning, designing and comprehensive management of various types of WASH programmes in rural, peri-urban and urban settings, in developing and developed countries, also programmes closely integrated with nutrition, education and shelter. Professional experience gained in diverse geographical locations (West and East Africa, Asia, Caribbean and recently Middle East), climates and cultures. Since first international deployment in 2006 involved in post-war recovery response in Liberia; development programmes addressing severe WASH needs related to protracted drought and famine in Horn of Africa; emergency response to earthquake and Cholera outbreak as well as re-establishment of WASH



development programmes in Haiti after the devastating 2010 earthquake; early recovery response after severe floods in Pakistan; preparedness and response to protracted emergencies in East Africa and recently addressing WASH needs of people affected by conflicts in Syria and Iraq.

Dr. Eilia Jafar

DRR Specialist, Co - Founder, Tanyak

Experience

Dr. Eilia Jafar is a DRR Specialist and Co – Founder of Tanyak. She is also the Chief Programmes Officer (Sr. consultant) in SaveLIFE Foundation. She is also the Co-Founder of Tanyak ARISE. Previously she was the board member of Livestock Emergency Guidelines and Standards (LEGS) and prior to that the board member of GeoHazards Society. She was also the Interim CEO and Sr. Advisor, Programmes (Sr. Consultant) under Sphere India. She was also the Head of Disaster Management Unit in CARE India and prior to this she was South Asia Regional DRR Manager at IFRC and DRM Programme Officer at UNDP. Talking about her education, she completed her PhD from University School of Management Studies, GGSIPU and she did her MBA and B.Tech in Civil Engineering from Aligarh Muslim University.



Shri Krishna S. Vatsa

Member, NDMA

Experience

Shri Krishna S. Vatsa has worked in the area of disaster risk reduction and recovery for the last 25 years. Prior to joining as Member, NDMA, he worked as Policy Advisor, Disaster Recovery, Bureau for Policy and Programme Support (BPPS), UNDP in New York and Nairobi during 2015-20. He served as the Regional Disaster Reduction Advisor, South & South-West Asia in New Delhi from 2008 to 2014. He joined UNDP in 2007 as Early Recovery Coordinator in the Philippines. As a career civil servant, he joined the Maharashtra Emergency Earthquake Rehabilitation Programme in the state of Maharashtra in 1995, and implemented a



large-scale earthquake recovery programmeduring the next four years. He has also served as Secretary to the Government of Maharashtra, Relief and Rehabilitation from 2003 to 2006, and then as Secretary, Rural Development & Panchayati Raj from 2006 to 2007. In course of his career, he extensively consulted for several national and international organizations in the area of disaster risk reduction and recovery. Krishna S. Vatsa has a Doctor of Science in Disaster Risk Management from the George Washington University, Washington, DC and published extensively on the subject.

About NIDM

The National Institute of Disaster Management (NIDM), Ministry of Home Affairs, Government of India is a premium institute and a Statutory Body (under the Disaster Management Act 2005) for training, research, documentation, awareness and human resources and capacity development in the field of disaster mitigation and management. The institute lays emphasis on a multi-stakeholder interdisciplinary cross-sectoral approach for an efficient proactive continuum disaster risk management based on a participatory integrated multi-risk management concept. It aims towards a disaster-free and resilient India.

About IUINDRR

To address the commitment of India and keeping the importance of Universities and Institutions, India Universities and Institutions Network for Disaster Risk Reduction (IUINDRR-NIDM) was established by NIDM. In this network, besides NIDM, several esteemed Universities and Institutions will come together to share knowledge, resources related to disaster risk management amongst themselves and to the larger group of stakeholders working on DRR. This Network will also have representations from University Grants Commission, All India Council for Technical Education and Association of Indian Universities.

Objectives of the Training Programme

- To strengthen the district and state authorities with trained human resources.

- Explain the new PDNA tools
- Engage them in the process of computing the Damage & Loss assessment
- Examining sector-wise damage and loss assessment
- Strategy for DRR and Long-term Recovery

Course Module

- The present post-disaster assessment in India
- The PDNA conceptual framework
- Standard procedures for undertaking a PDNA
- Sector (Housing, Education, Infrastructure, Livelihood, Water, Sanitation and Hygiene [WASH], Health, Disaster Risk Reduction)
- Guidelines for Undertaking PDNA
- Disaster Risk Management in 15th Finance Commission
- Estimation of post-disaster recovery needs
- Important tips on Training and Facilitation Skills and Valedictory session

Programme Details

This programme was scheduled for 3 days. It was based on class room module covering 7 - 8 hours each day during the programme.

Learning Methods

The training was delivered in English as well as Hindi language. The methodology was participatory in nature and employed interpersonal communication techniques to help make the training more interactive, and practical with hands-on experiences. Various participatory teaching and learning methods are used to cover each training module. These include interactive lectures (questions and answers), brainstorming, small group discussions, case presentations, and recap modules.

Target Group

The target group of this national programme who will come as participants would be the senior-level state government officials of various sectors like Education (Higher Secondary and Secondary), Power, Telecom, Roads and Bridges, Health, Housing, Water, Sanitation and Hygiene (WASH), Disaster Risk Reduction, Agriculture and Livelihood, etc. and faculty members of the universities and institutes under IUINDRR with minimum experience of 8-10 years.

Key Takeaways

- Understanding hazards versus disasters, measuring potential damage, and the importance of comprehensive assessments for effective recovery planning.
- The PDNA process spans stages such as analysis, damage assessment, long-term impact evaluation, prioritizing recovery needs, and the importance of innovation and accuracy in data verification for effective planning.
- Deliberating on pre-disaster context and how to identify sources of baseline data and also conceptual framework of PDNA.
- PDNA in the Health sector, covered standard procedures, data sources, damage assessment, and recovery calculations, emphasizing disaster effects, losses, and reconstruction measures.
- PDNA in Education Sector covered the process, steps, baseline data, damage assessment tables, recovery strategies, estimated needs, implementation mechanisms, and challenges.
- PDNA in Housing Sector involved multidisciplinary approaches for built environments, emphasizing areas like geotechnical surveys, infrastructure resilience, and risk communication.
- PDNA in Infra – Sector Assessment involved disaster event characteristics, brief insight to PDNA assessments, recovery strategy, and recovery and mitigation projects.
- PDNA in Livelihood Sector focused on Employment Livelihoods and Social Protection (ELSP) which involved key concepts of employment and livelihood, assessment of employment and livelihood loss, the ELSP assessment process, quantitative and qualitative assessment of losses and identifying recovery needs and recovery strategy.

- PDNA in WASH (Water, Sanitation, and Hygiene) Sector showed interconnection with education, health, and shelter highlights the need for multidisciplinary planning for disaster recovery.
- PDNA in DRR sector, showed integration in assessments, cross-cutting issues, methodologies, pre-disaster context, post-disaster effects, sectoral analysis, recovery strategies, and DRR sectoral strategies using the Kerala floods as a focus.
- Understanding recovery policy, planning, and financing in India, including needs identification, prioritization, estimation, framework development, long-term planning, and data collection, emphasizing resilience and the "build back better" approach.
- Recovery and financing in PDNA, discussing its integration in the 15th Finance Commission, assessment norms, report timelines, and chapters. It also addressed language barriers, PDNA manuals, and approaches for states dealing with unresponsive governments.

Day: 1 – March 18, 2024

Registration of Participants

Time: 09:30 AM – 10:30 AM

The registration of the participants was facilitated by **Ms. Annyesha Purkait, Young Professional, NIDM**. The registration process was offline.

Questionnaire and Expectations

Time: 10:30 AM – 11:00 AM

Delegates were told to write concepts of a few terms like – Disaster, Hazard, Difference between Hazard and Disaster, Short - Term Recovery, Long - Term Recovery, and Rehabilitation; in their own words as a pre-training exercise. After drafting their responses, some of the delegates shared them with all of them, and everyone was thanked for their incredibly active engagement.

Inaugural Session

Time: 11:00 AM – 11:30 AM

Prof. Santosh Kumar, Senior Advisor, NIDM, Dr. Ajinder Walia, Associate Professor, HOD, GIDRR Division and Dr. Preeti Soni, Senior Programme Consultant, IUINDRR-NIDM participated in the inaugural session. The welcome speech was delivered by **Dr. Ajinder Walia**. In his opening remarks, **Prof. Santosh Kumar** gave an overview of the course. In addition to capitalizing state governments and long-term recovery funds, he asserted that NIDM will sign Memorandums of Understanding (MOUs) with state governments through IUINDRR.



Session: 1

Time: 12:00 PM – 01:30 PM

Topic: Disaster Management System in India, Sendai Framework for DRR, PM 10-point Agenda on DRR

Speaker: Prof. Santosh Kumar, Senior Advisor, NIDM

Prof. Santosh Kumar began by discussing the responses from the expectations session. Prof. Kumar mentioned some of the diagnostic tools of the PDNA process which were – Hazard, Disaster, Damage and Loss. He elucidated the rationale behind PDNA and its significance in India. In this session, discussions were around DM Act, National Research Facility, disaster response and relief, stages of PDNA, cultural practices, rapid assessment and build back better. Various post – disaster terminologies were also introduced. A video on Kerala Floods was also screened followed by a session on effects and impacts of disaster. At the end of the session, questions were

taken from the delegates and Prof. Kumar answered them accordingly.

Group Exercise

Each delegate received a questionnaire with various instances; they had to mark which ones were losses and which were damages. Initially, the delegates were instructed to determine losses and damages on their own. Afterwards, identical questionnaires were distributed to each table, with the instruction to determine losses and damages in their respective groups. The main goal of the exercise was to comprehend the fundamentals of calculating losses and damages as well as the costs associated with disaster consequences. The answer sheet was then shown on the screen, and the delegates reviewed their responses in accordance with it.



Session: 2

Time: 02:30 PM – 03:30 PM

Topic: The PDNA conceptual framework and Pre-Disaster Context & Baseline Data

Speaker: Ms. Ranjini Mukherjee, Director - Research, Knowledge Management and Capacity Development, CDRI

Ms. Ranjini Mukherjee conducted the session virtually. She covered several topics under the



PDNA conceptual framework, including the goals of the programme, its significance, the key actors involved in its actions, the role of national and state governments, UN agencies, and the EU, UNDG, and WB in the assessments, the PDNA coordination structure, the typical PDNA sectors and sub-sectors, the PDNA implementation process, the PDNA methodology and its limitations, the PDNA

deliverables, and the enabling conditions for a successful PDNA.

She discussed the pre-disaster context, how to find baseline data sources, and how to describe the primary, secondary, and tertiary affected individuals, keeping in mind that they will all require distinct recovery strategies. At the end of the session, questions were taken from the delegates and Ms. Mukherjee answered them accordingly.

Day: 2 – March 19, 2024

Recapitulation

Time: 10:00 AM – 10:15 AM

Ms. Annyesha Purkait, Young Professional, NIDM did a recapitulation of the sessions of first day and asked for feedback from the delegates if they wanted to add something.

Session: 3

Time: 10:15 AM – 11:00 AM

Topic: PDNA in Health Sector

Speaker: Dr. Avneet Randhawa, Dept. of Health and Family Welfare, Govt. of Punjab

Dr. Avneet Randhawa initially expressed worry that the health sector sometimes endures a



double or triple burden as a result of disasters, when one disaster follows another. In her session she discussed a number of topics including the PDNA exercise in the health sector, standard procedures for assessment, health assessment teams, sector teams, unique health challenges, baseline data, sources of data and information, steps of standard procedures, damage assessment, calculations and tabular

structures related to it, disaster effects and loss, additional costs incurred as a result of loss,

examine the effects of damage and loss, and recovery and reconstruction strategies. At the end of the session, questions were taken from the delegates and Dr. Randhawa answered them accordingly.

Session: 4

Time: 11:15 AM – 12:30 PM

Topic: PDNA in Education Sector

Speaker: Mr. Mukunda Upadhyay, Senior Consultant, UNICEF, Guwahati

Mr. Mukunda Upadhyay initially concentrated on comprehending the recovery in the education



sector. He then moved on to explain effects of disaster in education sector, PDNA for education sector, general PDNA process, steps in conducting PDNA where he mentioned five main steps –

1. Collect baseline information on sector assets and production flows
2. Calculate the damage estimate and production flow changes
3. Examine how the impacted population is affected by the losses and damages
4. Determine the recovery plans and calculate the amount of reconstruction and recovery required
5. Compile post-disaster damages, losses, and needs (PDNA) report of the sector

In addition, he discussed the PDNA process's difficulties and the Child Centered Post Disaster Needs Assessment's implementation mechanism. At the end of the session, questions were taken from the delegates and Mr. Upadhyay answered them accordingly.

Parallel Sessions

Session: 5 (A)

Time: 12:30 PM – 02:00 PM

Topic: PDNA in Housing Sector

Speaker: Dr. Prabir Kumar Das, Independent Housing Expert

Dr. Prabir Kumar Das began by elucidating the PDNA concept. He explained the format of the PDNA report, concentrating on –



1. The pre-disaster context
2. Post-disaster effect assessment
3. Post-disaster impact assessment
4. Cross-sectoral linkages
5. Housing recovery needs and strategy
6. Implementation plan

The role that PDNA played in each disaster was underlined, and a number of the repercussions of disasters, such as the Sikkim Glacial Lake Outburst, the Kerala Flood, and Cyclone Fani, were illustrated. Additionally, some video footages of these disaster events were shown. At the end of the session, questions were taken from the delegates and Dr. Das answered them accordingly.

Session: 5 (B)

Time: 12:30 PM – 02:00 PM

Topic: PDNA in Infra Sector Assessment

Speaker: Mr. Anup Karanth, Senior Disaster Risk Management Specialist, The World Bank

Mr. Anup Karanth began the discussion by going over the various characteristics of disasters. He discussed about gathering information, assessing risks, comprehending events and their repercussions, and receiving event updates and bulletins. Then he started giving a summary of the



assessments, concentrating on two disaster events: the Kerala floods and landslides, for which he explained the joint rapid damage assessment and needs assessment, and Cyclone Fani, for which he highlighted the needs assessment and damage loss. He then covered recovery strategy in detail, going over long-term recovery, different approaches to recovery, stages of recovery, recovery strategy, and

key recovery principles. Finally, he provided more details on several recovery and mitigation initiatives, including –

1. Odisha Disaster Recovery Project
2. Andhra Pradesh Disaster Recovery Project
3. Uttarakhand Disaster Recovery Project
4. Jhelum & Tawi Flood Recovery Project
5. Coastal Disaster Risk Reduction Project
6. National Cyclone Risk Mitigation Project I & II

At the end of the session, questions were taken from the delegates and Mr. Karanth answered them accordingly.

Session: 5 (C)

Time: 12:30 PM – 02:00 PM

Topic: PDNA in Livelihood Sector

Speaker: Dr. Partha S Banerjee, Director, DEX-DEFT Research & Consulting

Dr. Partha S. Banerjee concentrated on elucidating Social Protection and Employment Livelihoods (ELSP). He explained the fundamental ideas of employment and subsistence under this topic. He continued with a quick explanation of the assessment of loss of livelihood and employment. The following steps in the ELSP assessment process were decoded –

1. Pre-disaster Information
2. Post-disaster Information



- 3. The Disaster Effect
- 4. The Disaster Impact

Then he explained the quantitative and qualitative assessment of losses and finally identifying recovery needs and recovery strategy. At the end of the session, questions were taken from the delegates and Dr. Banerjee answered them accordingly.

Session: 5 (D)

Time: 12:30 PM – 02:00 PM

Topic: PDNA in WASH Sector

Speaker: Ms. Karina Malczewska, WASH Specialist, UNICEF

Ms. Karina Malczewska began by outlining the session's goal. She covered a number of topics



in her session, including the pre-disaster context and baseline for the WASH sector, the PDNA Team, assessment steps, deliverables of the WASH sector assessment, and sources of information for the WASH sector. After that, she discussed the impact of disasters on the WASH sector and how they are analyzed from four different angles, including damage and loss. She continued with a quick

overview of the post-disaster scenario, necessary data for the WASH sector, the impact of the disaster on the WASH sector, the recovery requirements in the WASH sector based on estimates of losses and damages, and the recovery plan. The Kerala flood situation, for instance, was explained concerning each of the categories for disasters mentioned above.

After all these she elaborated the elements of Disaster Management Plan (DMP) which included its concept, objectives, scopes of the DMP and identified stakeholders. At the end of the session, questions were taken from the delegates and Ms. Malczewska answered them accordingly.

Session: 6

Time: 03:00 PM – 04:00 PM

Topic: PDNA in Disaster Risk Reduction Sector

Speaker: Dr. Eilia Jafar, DRR Specialist, Co - Founder, Tanyak

Dr. Eilia Jafar at first gave an outline of her session. She went on to discuss disaster risk reduction



in each sector and as a stand-alone, how to integrate DRR in sector assessments, how to address DRR as a cross-cutting issue, the methodology for DRR sector assessment, the pre-disaster context, which includes the profile of hazards and vulnerabilities, the effects that follow a disaster, the DRR sector, the analysis of institutions and response, and other crucial factors. In addition, she discussed the

necessity of lowering the risk of disaster, recovery vision and strategy, and calculating needs based on four dimensions. She used the floods in Kerala as an example to discuss DRR sectoral strategy, recovery needs, recovery plan, and damage and loss estimation. At the end of the session, questions were taken from the delegates and Dr. Jafar answered them accordingly.

Day: 3 – March 20, 2024

Recapitulation

Time: 10:00 AM – 10:15 AM

Ms. Annyesha Purkait did a recapitulation of the topics of second day and asked for feedback from the delegates if they wanted to add something.

Session: 7

Time: 10:15 AM – 11:30 AM

Topic: Recovery Policy, Planning and Financing in India

Speaker: Prof. Santosh Kumar, Senior Advisor, NIDM

Prof. Santosh Kumar made his session revolve around the guidelines given by NDMA (National



Disaster Management Authority). He continued illustrating the XVth Finance Commission recommendation, financing disaster management in India, allocation at the national and state levels under the response window, recovery and reconstruction window, guidelines, their goal, the main concerns they addressed, the need for capacity building in recovery and reconstruction, and the creation of a

policy to address the widespread population displacement brought on by erosion. At the end of the session, questions were taken from the delegates and Prof. Kumar answered them accordingly.

Session: 8

Time: 12:00 PM – 01:30 PM

Topic: Recovery and Financing in PDNA

Speaker: Shri Krishna S. Vatsa, Member, NDMA



Shri Krishna S. Vatsa took the session in virtual mode. He talked about PDNA in the context of the 15th Finance Commission, how PDNA arrived in India, recovery standards and items of evaluation, the best time frame for drafting PDNA reports, and the contents of each report's chapters. Additionally, he talked about PDNA instructions, language problems in India, and how citizens of each state should contact

the federal government if their state government is not responding. At the end of the session, questions were taken from the delegates and Shri Vatsa answered them accordingly.

Valedictory Session

Time: 02:30 PM – 04:00 PM



The valedictory event was attended by **Shri Rajendra Ratnoo, IAS, Executive Director, NIDM, Col. P.S. Reddy, Joint Director, NIDM (South Campus), Prof. Santosh Kumar, Senior Advisor, NIDM and Dr. Preeti Soni, Senior Programme Consultant, IUINDRR-NIDM.**

Shri Rajendra Ratnoo asked all the delegates to give their feedbacks on the training session and also to the hospitality services that were provided to them. In addition to their online reviews, every delegate provided verbal input to NIDM highlighting both the great aspects and some of the negative aspects they experienced. Everyone was given the assurance by NIDM that they will consider the feedback and make up for any missing material in the next training sessions. ED Sir recommended that more academicians be included in the next training sessions. After sharing his own experience with NIDM, he invited everyone to go through the PDNA handbook and manuals so that the delegates may become master trainers for next PDNA training programs.

Prof. Santosh Kumar began by expressing gratitude to each and every delegate, despite their hectic schedules, for attending the training session from a variety of government ministries, universities, and institutes. He found it very good that every

delegate engaged fully in every session and exercise during the program, displaying a great deal of passion. This course covered PDNA ground difficulties.

Col. P.S. Reddy expressed gratitude to all of the attendees and resource persons for helping to make the program a success in his closing remarks. He discussed the significance of PDNA in all fields. He encouraged every delegate to collaborate similarly and take part in these kinds of training sessions at the NIDM South Campus.

Ms. Annyesha Purkait expressed her gratitude to all of the resource persons, NIDM officials, and delegates by giving a vote of thanks at the conclusion.

At the end training completion certificates were distributed to all the delegates and groups photograph was taken.

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GROUP PHOTOGRAPH

