

**GOVERNMENT OF KERALA****Abstract**

Disaster Management Department -Wayanad landslide 2024- Post-Disaster Needs Assessment(PDNA) Exercise at Wayanad- Expert Team Constituted- Orders Issued

DISASTER MANAGEMENT (A)DEPARTMENT

G.O.(Rt)No.625/2024/DMD Dated,Thiruvananthapuram, 23-08-2024

- Read 1. GO(P) No.1/2024/DMD dated 02.08.2024.
2. MTO VII/978/2024/KSDMA dated 05.08.2024.
3. GO(P) No. 2/2024/DMD dated 09.08.2024.
4. Email dated 20.08.2024 and 22.08.2024 from National Disaster Management Authority.

ORDER

The landslide reported at Meppadi Grama Panchayath of Vythiri Taluk of Wayanad district on 30.07.2024 was declared as a notified disaster as per G.O read 1st and 3rd above. The total area of the landslide is estimated at 86,000 square meters at length of 8 kms. Ward numbers 10,11, and 12 of Meppadi Grama Panchayath were impacted and as per G.O read 3rd above these wards were notified as disaster affected. The loss of lives is currently 231 individuals and 119 individuals are still missing. In response to the situation, the Kerala State Disaster Management Authority, Government of Kerala, issued a letter- MTO VII/978/2024/SDMA-KSDMA dated 5-08-2024, requesting the NDMA to provide guidance and support- technical assistance for conducting a Post-Disaster Needs Assessment (PDNA) exercise as per paper 2nd read above. As per paper read as 4th above, NDMA has intimated their guidance and support - technical assistance for the PDNA and has also shared the Terms of Reference and the NDMA Team Composition for Wayanad Landslide PDNA Exercise. It is also informed that the team from NDMA will arrive at Calicut on 25.08.2024 and the PDNA process will be held from 26.08.2024 to 31.08.2024. In the circumstances, Government are pleased to constitute sector wise Post Disaster Need Assessment team for Wayanad as detailed below. The Terms of Reference

for the PDNA team is also approved.

Principal Secretary, Disaster Management & State Relief Commissioner will oversee the PDNA process, Member Secretary- KSDMA will supervise the State level Officers and District Collector- Wayanad will be in charge of District Officers.

Sector Wise Team Composition for Wayanad Landslide PDNA

<i>Sector/ Accountability</i>	<i>Name/s</i>
Team Leads and Overall Report Preparation	Dr. Sekhar Lukose Kuriakose and Prof. R Pradeep Kumar
Hazard Analysis	Dr. Debi Prasanna Kanungo, Dipali Jindal, Sathyakumar C J, Dr. Monish Jose, Dr.Hari Kumar, Mr. G. Sankar, Ms. Anaswara Devi B. R
Social Sectors	
Housing and Settlements	Amit Tandon, Ajay Chourasia Dr. Manoj Kumar Kini, Ar. Arya Narendran
Education	Amit Tandon Saseendra Vyas
Health and Nutrition	Cyriac K J, Dr. Anish T.S, Dr. Jazeela A
Public building and Civic Amenities (Urban and Rural)- including	Ajay Chourasia, Amit Tandon Dr. Hari Kumar, Mr.
Commercial Infrastructure	Sreerag R.E, Ms. Anna John
Psycho-Social well being	Cyriac K J, Dr Aparna Nair, Mr. Joe John George, Ms. Ziya Arun
Infrastructure	
Drinking Water and Sanitation	Amit Tandon, Mr. P.C Majeed, Ms. Shenu Jose
Roads and Bridges	Indraneel Bose, Dipali Jindal, Sathyakumar C J, Mr. Baiju P.B, Ms.

	Keerthana Ramesh
Power	M A Dasarathi, Dipali Jindal, Sathyakumar C J, Mr. Prasanth
Irrigation (Minor Canals/ Traditional Irrigation System)	Amit Tandon, Ajay Chourasia, Mr. P.C Majeed, Ms. Shenu Jose
Productive	
Agriculture and Horticulture(including plantations and agriculture labour)	Abhinav Walia, Suvas Chandra Mohanty Dr. Yamini Varma, Dr. Arunjith P
Animal Husbandry and Livestock	Abhinav Walia, Suvas Chandra Mohanty Dr. Rajesh, Mrs. Femy Mathew
Tourism	Abhinav Walia, Suvas Chandra Mohanty, Mr. Prabhath
MSME, Small/ local Businesses, Livelihoods	Suvas Chandra Mohanthy, Abhinav Walia, Smt. Liziamma Samuel
Cross Cutting	
Disaster Risk Reduction	Amit Tandon, Dr. Debi Prasanna Kanungo, Dipali Jindal, Sathyakumar C J, Cyriac K J, Dr. Sekhar Lukose Kuriakose
Forest and Environment	Abhinav Walia, Suvas Chandra Mohanty, Mr. Ajith K Raman, Dr. Pratheesh Maman, Mr. Dinesh K.S, Ms. Amrutha K
Social Inclusion- Tribals, Elderly, Persons with Disability, Gender Perspectives	Cyriac K J, Amit Tandon, Sathyakumar C J, Dipali Jindal, Dr. Annie George, Ms. Anagha, Mr. Joe John George

Terms of Reference

Wayanad Landslide-Post Disaster Needs Assessment (PDNA)

The objective of the PDNA is to assess the damages caused by the

Landslide in Wayanad, Kerala and define a strategy for recovery and reconstruction, including estimation of financial costs across the impacted sectors.

The specific objectives of the PDNA are as follows:

- Estimate the overall impact of the disaster event on the lives, livelihoods and property of the affected communities; and assess the loss and damage under the social, productive, health, infrastructure, tourism and livelihoods, forest and environment, and DRR sectors, integrating gender and tribal inclusion.
- Assess the impacts of the disaster to develop a Recovery and Reconstruction Strategy to address the early, medium- and long-term recovery and reconstruction needs with costs and a timeline in one consolidated report.
- Ensure that strategies for recovery and reconstruction integrate concepts of disaster risk reduction and “build back better” and address gender and environmental concerns;
- Developing a recovery and reconstruction strategy that is representative of the needs and priorities of the affected communities considering the ecological and geographical challenges
- Recommend and define a strategy for Disaster Risk Management
- Recommend institutional mechanisms and policy options to be undertaken in support of the recovery and reconstruction process and that promote long term disaster resilience
- Recommend an overall “build back better” cost considering the sectoral need assessment.

Process for conducting the Post-Disaster Needs Assessment

This PDNA exercise will be led by the Government of Kerala and will be jointly supported by NDMA, NIDM, and other agencies. The following process may be followed for PDNA.

1. Setting up the Team, Preparation, and Coordination

- Kerala State Disaster Management Authority will constitute a multi-stakeholder state-level team consisting of sector experts, representatives from the Government, international organizations, institutions, and

other relevant stakeholders.

- Establish a coordination mechanism with clear roles, responsibilities, and deadlines for each team member and define the scope and objectives of PDNA.
- At the District level, the district team will be led by the District Collector and will consist of members from DDMA, heads of the line departments, supported by Executive Engineers and Asst. Executive Engineers from the departments (PWD, LSGD Engineering, Minor Irrigation, Water Authority), Rural Development, Kudumbashree, SC/ST Development Department, Mining and Geology, Forest Department, Tourism Department, Women and Child Department, Social Justice Department and other relevant departments as desired by District Collector.

2. Training Program

- Experts from NDMA, NIDM, and other agencies will conduct a training program for constituted teams focusing on the process, data collection, analysis, recovery needs, and report writing for PDNA.
- NDMA will provide templates for data collection, damage assessment, and identifying recovery needs to KSDMA.

3. Sectoral Assessments

- Sectoral assessments will be done by sectoral teams constituted by the State.

Assessments will include detailed assessments for each affected sector.

- State Government team and district officials will support the sector teams in the provision of baseline information, damage data, GPS locations, photographs, losses, impact, and identifying recovery needs.

4. Drafting of the PDNA report:

Following the collection of data, the team will prepare the report. The report will present sector-wise damage. The cost estimates of all the damage will be included in the report. The basis for estimating the cost of damage, including the unit cost, must be included in the sector report.

- KSDMA will be responsible for drafting the report by compiling the assessment findings, analyses, and proposed strategies into a comprehensive document.
- NDMA will provide technical inputs and comments on each sector, data collected, unit cost estimates, recovery needs, etc.
- NDMA will provide guidance in preparing the final reports.
- KSDMA will incorporate comments by the Sector experts, NDMA and prepare the final report.

5. Submission of Final report

- KSDMA shall submit the final reports to MHA for approval.

Assessment District: Wayanad, Kerala

Sectors for Post Disaster Needs Assessments

The damage and loss assessments and estimation of recovery and reconstruction needs will be undertaken under the following sectors

Social Sectors

- a. Housing and Settlements
- b. Education
- c. Health and Nutrition
- d. Public building and Civic Amenities
- e. Psycho-Social wellbeing Infrastructure

Infrastructure

- a. Drinking Water and Sanitation
- b. Roads - Major District Roads/Other District Roads/ Village Roads/
Bridges
- c. Power
- d. Irrigation (Minor Canals/ Traditional Irrigation System)

Productive

- a. Agriculture and Horticulture (including plantations and agriculture)

labour)

- b. Animal Husbandry and Livestock
- c. Tourism
- d. MSME, Small/ local Businesses, Livelihoods

Cross-Cutting

- a. Disaster Risk Reduction and Environment
- b. Forest and Environment
- c. Social Inclusion- Tribals, Elderly, Persons with Disability, Gender Perspectives

PDNA Team constituted by the Government of Kerala for the Wayanad Landslide is as follows: Team members nominated by NDMA to be at Wayanad from 25-8-2024 to 01-09-2024

- 1. Prof. R Pradeep Kumar, Director, CBRI
- 2. Dr Debi Prasanna Kanungo, Chief Scientist & Professor (AcSIR), CBRI
- 3. Dr Ajay Chourasia, Chief Scientist, CBRI
- 4. Cyriac K J, Social Safeguards Specialist, NIUA, MoHUA, GOI
- 5. Amit Tandon, Consultant- CDRI
- 6. M A Dasarathi, Power Expert- CDRI
- 7. Indranil Bose- Roads Expert- CDRI
- 8. Dipali Jindal, Senior Consultant (Landslides and Avalanches), NDMA
- 9. Sathyakumar C J, Senior Consultant (HRVA), NDMA
- 10. Abhinav Walia, Senior Consultant, Disaster Management
- 11. Suvas Chandra Mohanty, Lead Consultant- Capacity, Building and Training

Team members nominated by KSDMA to be at Wayanad from 25-8-2024 to 01-09-2024

- 1. Dr. Monish Jose, Assistant Professor, KILA

2. Mr. Joe John George, Consultant DRR, KSDMA.
3. Dr. Annie George, Executive Director, Bedroc
4. Dr. Arunjith P, Specialist (Soil Science), Landuse Board
5. Dr. Anish T.S, Associate Professor, Public Health, Govt. Medical College, Manjeri
6. Dr. Manoj Kumar Kini, Managing Director, KTIL
7. Mr. Baiju P.B, Executive Engineer, KRFB
8. Mr. Sreerag R.E, AEE, Kalpetta Block, LSGD Engineering Department
9. Mr. Dinesh K.S, Environmental Engineer, PCB, Kazargode
10. Ms. Anaswara Devi B.R, Hazard Analyst (Geology), KSDMA
11. Ms. Anna John, Urban Planner, KSDMA
12. Ar. Arya Narendran, Architect, KSDMA
13. Ms. Shenu Jose, Hydrologist, KSDMA
14. Ms. Anagha, Rural Development Specialist, KSDMA
15. Dr. Pratheesh Maman, Project Coordinator, KSDMA
16. Dr. Hari Kumar, Geohazards Society
17. Mr. G. Sankar, Scientist G (Rtd), NCESS and Member, Landslide Advisory Committee, KSDMA
18. Dr. Sekhar Lukose Kuriakose, Member Secretary, KSDMA (ex-officio) & Head, Kerala State Emergency Operations Centre

Team members from Wayanad to be available for the PDNA process from 25-8-2024 to 01-9- 2024

1. Mr. Prabhath, Deputy Director, Tourism, Wayanad
2. Dr. Rajesh, DAHO, Animal Husbandry Department, Wayanad
3. Mrs. Femy Mathew, Deputy Director, Dairy Development Department, Wayanad
4. Mr. P.C Majeed, Joint Director (LSGD), MGNREGS, Wayanad
5. Mr. Ajith K Raman, DFO, Wayand (South)
6. Dr. Yamini Varma, Dean, College of Agriculture, Ambalavayal, Wayanad

7. Mr. Prasanth, Deputy Chief Engineer (Distribution), KSEB, Kalpatta
8. Smt. Liziamma Samuel, District Industries Centre Wayanad.
9. Sri. Saseendra Vyas, DDE Wayand
10. Dr. Aparna Nair, District Nodal Officer, Mental Health Programme, Wayanad

The following team members will support their respective counterparts from KSDMA HQ, Trivandrum

1. Ms. Ziya Arun, Hazard Analyst (Psychology)
2. Ms. Amrutha K, Hazard Analyst (Environment)
3. Dr. Jazeela A, Hazard Analyst (Public Health)

Ms. Keerthana Ramesh, Hazard Analyst (Civil)

All expenses in connection with the Post Disaster Needs Assessment (PDNA) will be met from the plan fund of KSDMA.

(By order of the Governor)
TINKU BISWAL
PRINCIPAL SECRETARY

To:

The Accountant General (Audit)(A&E) Kerala, Thiruvananthapuram
Member Secretary,NDMA(with C/L)

The Commissioner, Land Revenue, Thiruvananthapuram.

The Commissioner, Disaster Management

The District Collector,Wayanad

The Member Secretary, Kerala State Disaster Management Authority,
Team Members(Through Member Secretary, NDMA)

Local Self Government Department

Tourism Department

Agriculture Department

Animal Husbandry Department

Dairy Development Department

Forest Department

Power Department

Health Department

Environment Department

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