



Webinar on

“Ecosystem based approach to Disaster Risk Reduction & Resilience”

Tuesday, December 22, 2020
11:00 am - 12:30 pm

Organised by
National Institute of Disaster Management (NIDM)
Ministry of Home Affairs, Govt. of India
&
Administrative Training Institute - Mizoram

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Young Professional, NIDM

Mr. Raju Thapa
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1. INTRODUCTION

Mountain cover 24% areas of the world's land surface and about 12-14% population of world lives in and around hilly terrains. Earthquakes, Landslides and Floods are among the major disasters that are frequent in hilly states and caused colossal damage to lives, livelihood, to our built environment beside natural one. Further, dramatically changes in climatic conditions are anticipated to intensify the frequency and magnitude of these disasters. So, we need to mainstream Disaster Risk Reduction Strategies and Climate action plans in our each and every development activities besides scaling up the skills and capacities of our communities for taking proper adaptation and mitigation measures in response to climate change.

Comprehending the vulnerabilities of our hilly states, National Institute of Disaster Management (NIDM), Ministry of Home Affairs, Govt. of India in collaboration with Administrative Training Institute - Mizoram organized a webinar on **“Ecosystem based approach to Disaster Risk Reduction & Resilience”** on **Tuesday, 22nd December 2020** between **11:00am and 12:30pm**.

2. OBJECTIVES

The objectives of the webinar was to understand various constraints in sustainable hill area development and to ponder on strategies to strengthen the resilience of our hilly areas against the recurring disaster due to climate change and strategies to achieve sustainable development.

3. SUMMARY OF THE WEBINAR

Technical Session



Dr. Lalrokima Chenkual, Asst. Director (Training), Disaster Management & Rehabilitation Dept., Mizoram provided insights on Ecosystem based Disaster Risk Reduction covering climate change and its effects on rainfall and rainfall induced landslides in Mizoram. Ecosystem based Disaster Risk Reduction is the sustainable management, conservation and restoration of ecosystem to provide services that

reduce disaster risk by mitigating hazards and by increasing the likelihood resilience. Ecosystem and disaster risk reduction are closely related and we must consider disaster and climate change adaptations on Disaster Risk Reduction as a separate entities though they are closely related. The impact of disasters, whether it is natural or manmade, they not only have human dimensions, but environmental ones as well. So disaster impact the environment and

the environmental conditions may exacerbate the impact of disasters and vice versa. Disasters have an impact on the environment and environment has an impact on the disasters like deforestation, forest management practices, agricultural system, they can exacerbate negative environmental impact over hazards like storms cyclone, landslides, flooding and ground surface water contaminations. Human wellbeing depends on ecosystem that provides multiple legally good benefits. They also increase the resilience of vulnerable people to recover from disasters, resulting from various hazards. Ecosystems such as wetlands, forests can provide cost effective natural buffers, natural resilience against natural events like tsunamis, cyclone and the impact of climate change.

Mr. Anil Kathait, Young Professional, Centre for Hill Area Development, GMR Division, NIDM

discussed Ecosystem-based approach to Landslide Risk Reduction and Resilience. Landslides are major hydro-geological hazards affects a large part of India from the mighty Himalayan range in the north to the coastal areas of the south. 0.42 million sq. km of our nation's



land area that is 12.6% of total area is vulnerable to landslide hazard and these vulnerable areas are spread over 19 odd States and 4 Union Territories. Many factors contribute to the instability of slopes, and these include high relief, drainage, bedrock, regolith, vegetation, climate, earthquake, paleo-features and man-made conditions. Bioengineering can provide an effective means of treating problem sites. Bioengineering is the use of living plant materials to perform some engineering function, whether it be simple erosion control with grass and legume seeding or more complex slope stabilization with willows and other plants.



Mr. Raju Thapa, Young Professional, Early Warning and Communication (EWC) Centre, GMR Division, NIDM

defined Ecosystem based Disaster Risk Reduction as a measure to reduce disaster by utilizing the ecosystem. In the past few years, there has been some major policies advance that not only provide opportunities to scale up ecosystem based approaches for disaster risk

reduction, but they also facilitate the uptake of integrated approach for conservation of ecosystem. 2017 Global risk assignment is a clearly reminder that environmental risks are a priority challenge worldwide with extreme weather events like natural disaster and failure of mitigation and adaptation to climate change become among the top global risk to societies and economic in terms of likelihood and possible impacts. We need to raise awareness of the role

of ecosystem in Disaster Reduction and promote innovative natural resource management approaches.

Valediction

Prof. Surya Parkash, Head, GMR Division, NIDM in his concluding address thanks distinguished speakers for sharing their rich knowledge and experiences as well as the innovations that they have done in their work. We have different types of approaches, where we are focusing based on our own interest in terms of development, economics, environment or other kinds of issues, related issues and challenges. However, the number of different entities which are interdependent and interlinked with each other, they have to be taken care for mutual interest and sustainable safer development. Prof. Parkash in his address emphasized on five Es, economy, environment, ethics, energy and education.



Dr. Harjeet Kaur, Young Professional, GMR Division, NIDM was the moderator of the webinar on “Ecosystem based approach to Disaster Risk Reduction & Resilience” on Tuesday, 22nd December 2020 between 11:00am and 12:30pm. Dr. Kaur also facilitated interactions, discussions, Q & A session.

4. KEY TAKEAWAYS

- Healthy and diverse ecosystem are more resilient to extreme weather events.
- Ecosystem degradation when related to forests and peatlands reduce the ability of natural ecosystem to sequester carbon, increasing the incidence and impact of climate change and climate related.
- Environmental concerns are not incorporated in disaster management practices and vice versa. This is evident at all levels, from global, national, regional and local levels. So, in most cases, decisions and actions on environment and disaster management are taken separately.
- Human wellbeing depends on ecosystem that provides multiple legally good benefits. They also increase the resilience of vulnerable people to recover from disasters, resulting from various hazards.
- The slope can be stabilized by a single method or concomitant methods of prevention totally depending upon the nature, size, location, causative factors of the landslide. The effectiveness, acceptability and durability of remedial measures, to a large extent depend upon the quality of investigation carried out for identified correct problematic factors of the landslides.
- In bioengineering using plant materials to perform some engineering function, simple erosion as well as complex slope failures can be treated.
- Ecosystems such as wetlands, forests can provide cost effective natural buffers, natural resilience against natural events like tsunamis, cyclone and the impact of climate change.
- We have to enhance the knowledge and skills particularly at the national level in applying ecosystem management solutions for DRR and the climate change adaptation and mainstreaming this approaches in national and local development planning.
- There is a need of exchange of knowledge and practices, we have to put together cutting edge research and field based experiences that demonstrate the ecosystem based approaches to Disaster Risk Reduction.

5. PARTICIPANT'S PROFILE

Participants from all over the country attended the webinar. 276 participants registered their presence on Cisco Webex Platform. In addition, 110 people viewed the YouTube live streaming of the webinar. The YouTube link of the webinar is as follow:
https://www.youtube.com/watch?v=i_cXEiFVUHU

6. PROGRAMME SCHEDULE

Session	Time	Dignitaries/Distinguished Speakers	
Technical	11:00-11:20	Dr. Lalrokima Chenkual Asst. Director (Training), Disaster Management & Rehabilitation Dept., Mizoram	
	11:20-11:40	Mr. Anil Kathait Young Professional, Centre for Hill Area Development, GMR Division, NIDM	
	11:40-12:00	Mr. Raju Thapa Young Professional, Early Warning and Communication (EWC) Centre, GMR Division, NIDM	
	12:00-12:15	Interactions, Discussions, Q & A session	
Valediction	12:15-12:25	Prof. Surya Parkash Head, GMR Division, NIDM	Keynote Address
	12:25-12:30	Dr. Harjeet Kaur, Young Professional, NIDM	Vote of Thanks

7. POSTER



सत्यमेव जयते



Resilient India - Disaster Free India



MIZORAM

Prime Minister's 10 Point Agenda on DRR: No 1 & 5

Webinar on “Ecosystem-based approach to Disaster Risk Reduction & Resilience”



 **Tuesday, December 22, 2020**
11:00 am - 12:30 pm

Patrons



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Executive Director, NIDM



Mr. Arun Mishra, IAS
Director, ATI Mizoram

Chairs



Prof. Surya Parkash
Head, GMR Division, NIDM



Mr. Mark Lalthanliana
Joint Director, ATI Mizoram

Distinguished Speakers



Dr. Lalrokima Chenkual
Asst. Director (Training),
DM & R Dept., Mizoram



Mr. Raju Thapa
Young Professional,
GMR Division, NIDM



Mr. Anil Kathait
Young Professional,
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Moderator



Dr. Harjeet Kaur
YP, GMR Division, NIDM

Registration link:
<https://forms.gle/aYo2dNYQfwGfeQ5G8>

Platform: CISCO Webex
Event number: 176 087 3631
Event password: 2020

Organised by
National Institute of Disaster Management,
Ministry of Home Affairs
and
Administrative Training Institute, Mizoram

Stay Protected from Corona
NO CARELESSNESS
UNTIL THERE IS A CURE



WASH YOUR HANDS



USE SOAP



WEAR MASK



AVOID CROWDS



AVOID HANDSHAKE



DISINFECT CONTACT ELEMENTS

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