



Webinar on

**“Hill Area Environment,  
Climate Change, Sustainable  
Development and Landslide  
Risk Reduction & Resilience”**

**Tuesday, October 20, 2020  
11:00 am - 12:30 pm**

**Organised by**

**National Institute of Disaster Management (NIDM)**  
**Ministry of Home Affairs, Govt. of India**

**&**

**Indian Institute of Technology Guwahati**

## **ORGANIZING TEAM**

### **Patrons**

**Major General Manoj Kumar Bindal, VSM**  
Executive Director, NIDM

**Prof. T. G. Sitharam**  
Director, IIT Guwahati

### **Chairs**

**Prof. Surya Parkash**  
Head, GMR Division,  
NIDM

### **Coordinators**

**Mr. Anil Kathait**  
YP, GMR Division, NIDM

**Dr. Harjeet Kaur**  
Young Professional, NIDM

**Mr. Raju Thapa**  
Young Professional, NIDM

### **IT Support**

**Mr. Balaji Ariputhiran**, GIS Analyst, NIDM  
**Mr. Shobhit Sharma**, Young Professional, NIDM  
**Mr. Gaurav Sinha**, Young Professional, NIDM

# **CONTENTS**

<b>1. INTRODUCTION.....</b>	<b>1</b>
<b>2. OBJECTIVES .....</b>	<b>1</b>
<b>3. SUMMARY OF THE WEBINAR.....</b>	<b>1</b>
<b>4. KEY TAKEAWAYS.....</b>	<b>4</b>
<b>5. PARTICIPANT'S PROFILE.....</b>	<b>5</b>
<b>6. PROGRAMME SCHEDULE .....</b>	<b>5</b>
<b>7. POSTER.....</b>	<b>6</b>
<b>8. LIST OF PARTICIPANTS .....</b>	<b>7</b>

## 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 Indian Institute of Technology Guwahati organized a webinar on “**Hill Area Environment, Climate Change, Sustainable Development and Landslide Risk Reduction & Resilience**” on **Tuesday, 20<sup>th</sup> October 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

### Inaugural Session



**Prof. Surya Parkash, Head, GMR Division, NIDM** enriched the participants on the theme of webinar through his address. While briefing about the webinar, Prof. Parkash also shared the details of online training programmes and webinars conducted by NIDM in collaboration with other prestigious organizations. The strengthen of technical institutes like with Indian

Institute of Technology should be utilized in disasters risks reduction so that others beneficiaries from state disaster management authorities and disaster management authorities and other line departments respectively from the hill areas can get benefited out of it.

**Prof. T. G. Sitharam, Director, IIT Guwahati** during his special address in inaugural session highlighted the impacts of landslides on people and their communities. Environmental constraints which includes very difficult topography, complex geological structure, adverse

climate and ecology, fabricated the vulnerability of Indian hill states for landslides and other disasters. The main objective of the hill area development programme is basically eco restoration, economic development, eco-development and eco-preservation. Everyone is discussing about climate change, climate adoption is a necessity and no longer an option. It is very important to look at the multi hazard analysis of the different types of landslides. Water erosion processes, steepness of the slope, type of rocks and the shape of rock grains jointing and orientation of building planes, jointed rock mass arrangement of the rock layers, weathering processes, lack of vegetation, flooding and earthquake activity nearby as well as anthropogenic activities like mining, or urbanisation which changes the surface water patterns are responsible factors for the slope failures. Some majority of recent landslides what we are seeing is due to human activities because we are cutting the hill slopes for making roads, railway lines and all that. So a lot of undercutting they're doing without proper consideration of slope attributes. Actually by conducting scientifically studies of slopes, we can make sure that such kind of landslides doesn't happen.



## Technical Session



**Prof. T. G. Sitharam, Director, IIT Guwahati** provided insights on the slope stability analyses of highly jointed rock slopes on the abutments of the world's highest railway bridge across the Chenab River in Jammu and Kashmir, India. Landslide susceptibility, landslide observations or observatory landslide modelling and landslide

monitoring is a continuous ongoing process to understand each of the landslides. We need to look at landslide as multi hazard problem, because heavy rainfall can come together with an earthquake or heavy rainfall can come with a human activity of cutting slopes. Interactive geotechnical design is a design approach that requires the design and refinement of the project execution period until a suitable technique and an optimum schema are applied to the problem. In general use of interactive geotechnical design is not a frequent however in large project it has to be iterative one.

**Prof. Chandan Mahanta, Head Civil Engineering Department, IIT Guwahati and Dr. T. V. Bharat, Associate Professor, Department of Civil Engineering, IIT Guwahati** jointly presented their work on impact of climate change on the stability analysis of slopes in north-east India on a regional and local scale. Northeast is actually a sort of a natural laboratory for

not only landslide but all kinds of hazards and we almost live with these hazards on a day to day basis. The climate change effects definitely has influenced on the landslide occurrence, but also the in situ characteristics of the soil. The initial conditions for the soil plays an important role in slope stability. The harsh climate changes severely detrimental in the landslide occurrence and prediction. The local scale effects (unsaturated soil characteristics, field density, soil/rock conditions/vegetation/initial moisture content) also play vital role in the occurrence of landslide and can't be ignored. Tectonics and earthquake are two things we have not much control over, we can only adapt to it, can only think of mitigating and doing our design structurally to fit into that.



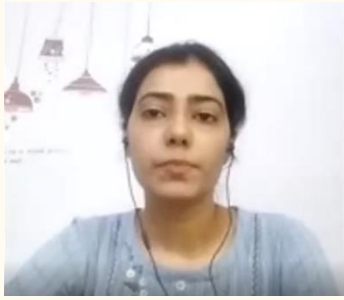
**Prof. Surya Parkash, Head, GMR Division, NIDM** delivered the last lecture of the technical session in which he discussed hill environment, climate change, sustenance and LRR&R. We are always making some errors in our calculations or there are certain uncertainties or unknown parameters, which actually become driving factors for the disasters to happen. It is very important for all disaster managers to

remember that first priority action is understanding disaster risks, this is what we are trying to learn. We have to learn what governing parameters which are affecting the occurrence of these disasters with changing climatic condition, urban development and growth. Areas which never witnessed any landslides have also seen landslides now days because of unplanned urbanization and this is likely to increase with time. So we have to do it in a much planned manner considering the vulnerabilities and the susceptibilities related to different hazards.

### Valediction Session

**Prof. Surya Parkash, Head, GMR Division, NIDM** delivered the concluding remarks of the webinar. We have try to share the technical expertise, infrastructures available with our academic and research organizations and the field experiences of their experts. Landslides are versatile, widespread, frequent and sudden in our country, therefore at local level community awareness and preparedness is very much needed.





**Dr. Harjeet Kaur, Young Professional, GMR Division, NIDM** was the moderator of the inaugural and technical session of the webinar on **“Hill Area Environment, Climate Change, Sustainable Development and Landslide Risk Reduction & Resilience”**. Dr. Kaur also facilitated interactions, discussions, Q & A session.

#### **4. KEY TAKEAWAYS**

- The strengthen of technical institutes like with Indian Institute of Technology should be utilized in disasters risks reduction so that others beneficiaries from state disaster management authorities and disaster management authorities and other line departments respectively from the hill areas can get benefited out of it.
- Landslides and some related hazards are interdisciplinary and multidisciplinary, we need a solution collectively based on the knowledge derived from different specialisation and definitely remote sensing and GIS helps us to develop embedded solution bringing different information layers together in a GIS platform.
- The main objective of the hill area development programme is basically eco restoration, economic development, eco-development and eco-preservation.
- Landslide susceptibility, landslide observations or observatory landslide modelling and landslide monitoring is a continuous ongoing process to understand each of the landslides.
- Interactive geotechnical design is a design approach that requires the design and refinement of the project execution period until a suitable technique and an optimum schema are applied to the problem. In general use of interactive geotechnical design is not a frequent however in large project it has to be iterative one.
- The climate change effects definitely has influenced on the landslide occurrence, but also the in situ characteristics of the soil. The initial conditions for the soil plays an important role in slope stability. The harsh climate changes severely detrimental in the landslide occurrence and prediction.
- The local scale effects (unsaturated soil characteristics, field density, soil/rock conditions/vegetation/initial moisture content) also play vital role in the occurrence of landslide and can't be ignored.
- Tectonics and earthquake are two things we have not much control over, we can only adapt to it, can only think of mitigating and doing our design structurally to fit into that.
- We are always making some errors in our calculations or there are certain uncertainties or unknown parameters, which actually become driving factors for the disasters to happen.
- It is very important for all disaster managers to remember that first priority action is understanding disaster risks, this is what we are trying to learn. We have to learn what

governing parameters which are affecting the occurrence of these disasters with changing climatic condition, urban development and growth.

- Areas which never witnessed any landslides have also seen landslides now days because of unplanned urbanization and this is likely to increase with time. So we have to do it in a much planned manner considering the vulnerabilities and the susceptibilities related to different hazards.

## 5. PARTICIPANT'S PROFILE

Participants from all over the country attended the webinar. 785 participants registered their presence on Cisco Webex Platform. In addition, 530 people viewed the YouTube live streaming of the webinar. The YouTube link of the training programme is as follow: <https://www.youtube.com/watch?v=4I2Ghp8t6N0>

## 6. PROGRAMME SCHEDULE

Day and Date	Time	Dignitary/Resource Person	Title of Talk
Tuesday 20 <sup>th</sup> Oct. 2020	<b>Inaugural Session</b>		
	11:00-11:10	<b>Prof. Surya Parkash</b> Head, GMR Division, NIDM	Opening Address
	11:15-11:25	<b>Prof. T. G. Sitharam</b> Director, IIT Guwahati	Special Address
	<b>Technical Session</b>		
	11:25-11:40	<b>Prof. T. G. Sitharam</b> Director, IIT Guwahati	Slope stability Analyses of highly Jointed Rock Slopes on the Abutments of the World's Highest Railway Bridge across the Chenab River in Jammu and Kashmir, India
	11:40-11:55	<b>Prof. Chandan Mahanta</b> Head Civil Engineering Department, IIT Guwahati <b>Dr. T. V. Bharat</b> Associate Professor, Department of Civil Engineering, IIT Guwahati	Impact of Climate Change on the Stability Analysis of Slopes in NE India on a Regional and Local Scale
	11:55-12:10	<b>Prof. Surya Parkash,</b> Head, GMR Division, NIDM	Hill Environment, Climate Change, Sustenance and LRR&R
	12:10-12:20	<b>Interactions, Discussions, Q &amp; A session</b>	
	<b>Valediction Session</b>		
	12:20-12:27	<b>Prof. Surya Parkash</b> Head, GMR Division, NIDM	Concluding Remarks
12:27-12:30	<b>Dr. Harjeet Kaur</b> Young Professional, NIDM	Vote of Thanks	

## 7. POSTER

The poster features a blue background with a mountain range. At the top left is the NIDM logo with the tagline 'Resilient India - Disaster Free India'. In the center is the State Emblem of India with the motto 'सत्यमेव जयते'. At the top right is the logo of the Indian Institute of Technology Guwahati. Below these is a circular graphic of the Sustainable Development Goals. The main title is 'Webinar on "Hill Area Environment, Climate Change, Sustainable Development and Landslide Risk Reduction & Resilience"', with an illustration of a landslide and people. The event details are: Tuesday, 20th October 2020, 11:00 am - 12:30 pm. The Supervising Patron section includes Maj. Gen. Manoj Kumar Bindal, VSM, Executive Director, NIDM, and Prof. T. G. Sitharam, Director, IIT Guwahati. The Distinguished Speakers section includes Prof. Surya Parkash, Head, GMR Division, NIDM; Prof. Chandan Mahanta, Head, Civil Eng. Dept., IIT Guwahati; and Dr. T. V. Bharat, Assoc. Prof., Dept. of Civil Eng., IIT Guwahati. The Moderator is Mr. Anil Kathait, YP, GMR Division NIDM. The Coordinators are Dr. Harjeet Kaur, YP, GMR Division, NIDM, and Mr. Raju Thapa, YP, GMR Division, NIDM. The registration link is <https://forms.gle/LfDQvhDorpHZijxDA>. The event is organized by the National Institute of Disaster Management, Ministry of Home Affairs & Indian Institute of Technology Guwahati. Social media links for Facebook, Twitter, LinkedIn, and YouTube are provided. At the bottom, there are COVID-19 safety icons: 'Stay Protected from Corona NO CARELESSNESS UNTIL THERE IS A CURE', 'Wear your mask properly', 'Frequently wash your Hands with Soap', 'Maintain safe distance', and 'Clean Surface Regularly'.

**nidm**  
Resilient India - Disaster Free India

सत्यमेव जयते

Indian Institute of Technology Guwahati

**Webinar on**  
**"Hill Area Environment, Climate Change, Sustainable Development and Landslide Risk Reduction & Resilience"**

**Supervising Patron**

**Tuesday, 20<sup>th</sup> October 2020**  
**11:00 am - 12:30 pm**

**Maj. Gen. Manoj Kumar Bindal, VSM**  
Executive Director, NIDM

**Prof. T. G. Sitharam**  
Director, IIT Guwahati

**Distinguished Speakers**

**Prof. Surya Parkash**  
Head, GMR Division, NIDM

**Prof. Chandan Mahanta**  
Head, Civil Eng. Dept., IIT Guwahati

**Dr. T. V. Bharat**  
Assoc. Prof., Dept. of Civil Eng., IIT Guwahati

**Moderator**

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**Mr. Anil Kathait**  
YP, GMR Division NIDM

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YP, GMR Division, NIDM

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YP, GMR Division, NIDM

**Registration Link**  
<https://forms.gle/LfDQvhDorpHZijxDA>

**Organised by**  
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NO CARELESSNESS  
UNTIL THERE IS A CURE

Wear your mask properly

Frequently wash your Hands with Soap

Maintain safe distance

Clean Surface Regularly

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