



## Summary Report

# Virtual National Conference on “Disaster Management with focus on Geohazards”



*Monday, August 2, 2021  
11:30 am - 01:30 pm*

**Organised by**

**National Institute of Disaster Management (NIDM)**

**Ministry of Home Affairs, Govt. of India**

**&**

**Guru Jambheshwar University of Science and Technology and  
Geological Society of India**

## **ORGANIZING TEAM**

### **Patrons**

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

**Prof. Harsh K. Gupta**  
President, GSI

**Prof. B R Kamboj**  
Vice Chancellor, GJUST

### **Chair**

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

**Dr. R Baskar**  
Professor, GJUST

### **Coordinator**

**Mr. Anil Kathait**  
Junior Consultant,  
GMR Division, NIDM

**Dr. Harjeet Kaur**  
Junior Consultant,  
GMR Division, NIDM

**Dr. Raju Thapa**  
Junior Consultant,  
GMR Division, NIDM

### **IT Support**

**Mr. Balaji Ariputhiran**  
GIS Developer, NIDM

**Mr. Shobhit Sharma**  
Consultant (WD), NIDM

# Contents

1. BACKGROUND .....	1
2. OBJECTIVES.....	1
3. ABOUT NIDM.....	2
4. ABOUT GJUST .....	2
5. ABOUT GEOLOGICAL SOCIETY OF INDIA.....	2
6. SUMMARY OF THE VIRTUAL CONFERENCE.....	3
7. KEY TAKEAWAYS .....	13
8. PARTICIPANT'S PROFILE.....	15
9. PROGRAMME SCHEDULE.....	15
10. POSTER.....	18
11. LIST OF PARTICIPANTS .....	19

## **1. BACKGROUND**

Geohazards, the risks caused by geological events, processes, activities, conditions or environment. The major hazards under the umbrella of Geohazards include earthquakes, landslides, avalanches, volcanoes, tsunami, Glacial Lake Outburst Floods (GLOFS), Landslide Dammed Lake Outburst Floods (LLOFS). India on account of its diverse geological attributes and geodynamic processes is vulnerable to a number of geohazards that lead to fatalities and widespread damages. Approximately 59% of the land territory is affected by earthquakes. The entire Himalayan belt is considered prone to great earthquakes of magnitude exceeding 8.0. Kangra (1905), Latur (1993), Gujarat (2001), Kashmir (2005) Chamoli (1999) and Sikkim (2011) are some of the most damaging earthquake in the country causing huge loss of life and property. 12.6% of landmass of the country is landslide-prone. The cosmopolitan distribution with frequent and sudden occurrence portrays landslides as one of the potential hazards that cause catastrophic disasters and wreak havoc on community, human settlements, livestock, livelihoods and environment leading to colossal losses and damages directly or indirectly in a cumulative way. Indian Ocean tsunami (2004) was responsible for immense destruction and loss of life. As per estimate more than ten thousand people were killed in India due to this catastrophe. The 2004 tsunami also prompted NDMA to formulate Tsunami Risk Management Guidelines to outline inter-agency roles and responsibilities, tsunami risk preparedness, mitigation and response.

In view of the vulnerability of India to various geohazards, National Institute of Disaster Management (NIDM) in collaboration with Guru Jambheshwar University of Science and Technology (GJUST) and Geological Society of India organised a **“Virtual National Conference on Disaster Management with focus on Geohazards” on 23<sup>rd</sup> and 24<sup>th</sup> September 2021.**

## **2. OBJECTIVES**

The objectives of the webinar were:

- To enhance awareness on vulnerability of geohazards.
- To assess the type and level of geohazards in any given space and time, based on past records and experiences as well as scientific inputs.

- Interdisciplinary understanding of the nature of extreme geohazards.
- Strengthening the scientific research related to geohazards.

### **3. ABOUT NIDM**

National Institute of Disaster Management (NIDM) is a premium institute and a Statutory Body (under 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 multi-stakeholder interdisciplinary cross-sectoral approach for an efficient proactive continuum disaster risk management based on participatory integrated multi-risk management concept. It aims towards a disaster free / resilient India.

### **4. ABOUT GJUST**

Guru Jambheshwar University of Science and Technology started its journey on October 20, 1995 under Haryana State Legislative Act No. 17 of 1995 at Hisar, Haryana State of India to impart education on the frontiers of Technology, Pharmacy, Environmental Studies, Non-conventional Energy Sources, Mass Media and Management Studies. The University has been accredited 'A' Grade by National Assessment and Accreditation Council (NAAC), in 2002 as grade 'A' and has been re-accredited as grade 'A' with (CGPA 3.26), in 2009. Thereafter, the University has also been re-accredited third time as "A" Grade with (CGPA 3.28) by National Assessment and Accreditation Council (NAAC), Bangalore for a period of five years from 10.12.2014 to 09.12.2019 and further extended for seven (five+two) years i.e. upto 09.12.2021.

### **5. ABOUT GEOLOGICAL SOCIETY OF INDIA**

The Society was formally inaugurated at New Delhi on January 23, 1959 to promote the cause of advanced studies and research in all branches of Earth Systems Science. The cardinal aims and objectives of the Geological Society of India to cooperate with the existing Academics, Societies and Institutions having similar objects for the advancement of Science in India; to represent internationally the scientific work of India in the field of geology and to undertake and execute all other acts which shall promote the aims and objectives of the Society.

## 6. SUMMARY OF THE VIRTUAL CONFERENCE

### Inaugural Session



**Dr. Harjeet Kaur, Junior Consultant NIDM** welcomed all the dignitaries, panellists and the participants to the “**Virtual National Conference on Disaster Management with focus on Geohazards**”. Dr. Kaur briefed about the national conference and felicitated the inaugural session of the national conference.

**Prof R Baskar, GJUST, Hisar** in his welcome address set the context of the virtual national conference and thank competent authorities of NIDM, GJUST and Geological Society of India for coming under one umbrella for this important event. Further, Prof. Baskar said that this conference will add knowledge to empower the relevant stakeholders and communities to reduce the impact of geo hazards by enhancing their understanding of geohazards.



**Prof. Surya Parkash, Head, GMR Division, NIDM** in his address highlighted the genesis of the conference and said that we decided to focus it on geo hazards, being the Geological society, a scientific community of geo engineers who have been working in this field for quite long

time since the British periods, when Geological Survey of India was established. They had worked a lot in terms of works earthquakes that happened in the past as well as on landslides. We are lucky to involve not only the researchers but also the administrators who actually dealt with the problems of disasters as well as other stakeholders who are from the corporate sectors as well. The sessions of the conference were decided based on the probabilities, frequency and distribution of these disasters, which have caused immense loss of human lives, livestock, our shelters, living places as well as our economy and infrastructure. At large globally, a lot of efforts have been made in these directions. And, the geohazards have been quite focused because of the activities that are predominantly taking place in the Indian Pacific region.

**Prof. B R Kamboj, Vice Chancellor, GJUST** in his address thanks all the organisers for hosting the timely event. Further, he mentioned that if we have the good number of intellectuals, and we can train them, we can awaken them than so many losses can be saved in the form of live or any other things. We have to work on the message to a level that these others may not occur.

**Maj. Gen. Manoj Kumar Bindal, VSM, Executive Director, NIDM** in his address said that we are hopeful that the outcomes of this national conference will be very useful for anyone who has to take any action on such related matters. Geological hazards are responsible for great losses of life and destruction to property. In the 20th century more than a 1 Million people worldwide had been killed by earthquakes alone. And the value of the property destroyed earthquakes, volcanoes and tsunamis amounts to scores of billions of dollars. Further, the climate research indicates that one can expect more extreme weather events in the future leading to increased flooding, landslides, avalanches, erosion, sea level rise and many other things due to melting of ices, glacier retreat, and uneven distribution of rains with varying intensity in different areas. The potential impacts of hazards tend to be ignored in the planning of land-use, development of structures, infrastructure, utilities, services and social economic processes. The recent extreme disasters that happen reveal gaps in the



knowledge of geo-hazards available to planners, developers, financiers, and policy and decision makers. It is very important to understand the full spectrum of geo-hazards, including the extreme events as a prerequisite for disaster risk management and increased resilience to these events. Any attempt to reduce the incidences and impacts of the potential disasters would require a good scientific understanding of the hazards and the likely vulnerabilities of the elements at the risk. As well as enhanced capacities to avoid or prevent, mitigate or resist and also recover from the risks within the acceptable social economic limits.



**Dr. Vishwas Mehta, IAS, Former Chief Secretary, Kerala** shared his administrative experience in managing the disasters. Disasters are inevitable, some are man-made disasters and some disasters we have no choice, but to face. The biggest challenge for all of us is when

we deal with disasters, how we prevent the loss of lives and damages. As long as we prepare well it is possible for us to reduce the losses. We can face it with the resilience and we can learn lessons from the past disasters and work out models in a way that the loss in the future disaster is minimized. It is possible for us to reduce the losses provided we are little active provided, we act in time, we have contingency plans and provided we are able to make people aware of the risks. Coordination of various agencies can be a great help in serving the human lives and the loss to the property. In modern world, unfortunately in scientific as well as in civil administration, the left hand does not know what right is doing. Don't fight with nature, live with them. We have to work around the nature that rather than fighting the nature.

**Prof. Harsh K. Gupta, President, Geological Society of India** in his address highlighted that the major the issue is that in spite of all of our technical, logical scientific and other developments, somehow, the numbers of



lives lost and loss of property, keep on increasing with the passage of time. It is important that we learn how to live with the disasters. He echoed the sustainable multi-hazard management approaches to strengthen Disaster risk reduction. He further mentioned for Earth scientists /DM professionals to undertake research to better understand these hazards and contribute to risk management policies related to social and technical issues associated with geohazards as well as disaster mitigation.

### Technical Session I: Landslides Risk Reduction and Resilience

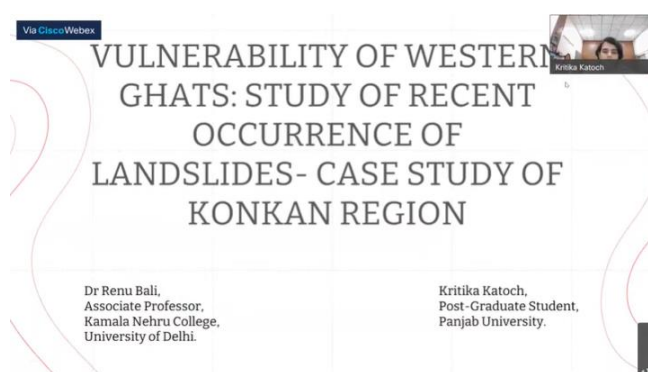
This session was chaired by **Prof. Surya Parkash, Head, GMR Division, NIDM** and **Dr. Saibal Ghosh, Director (Geology), GHRM Centre, GSI**. The session was moderated by **Dr. Harjeet Kaur, Junior Consultant NIDM**.



**Dr. Renu Bali, Associate Professor, Department of Geography, Kamala Nehru College, University of Delhi** and **Ms Kritika Katoch, Department of Geography, Kamala Nehru College, University of Delhi** presented “Vulnerability of Western Ghats: Study of Recent Occurrence of Landslides- Case study of Konkan Region”. The speaker talked about the landslides which triggered by



intense rain in western ghats, Maharashtra and the coastal Konkan region as monsoon fury continued persistent over the region. She discussed major reason for landslides are



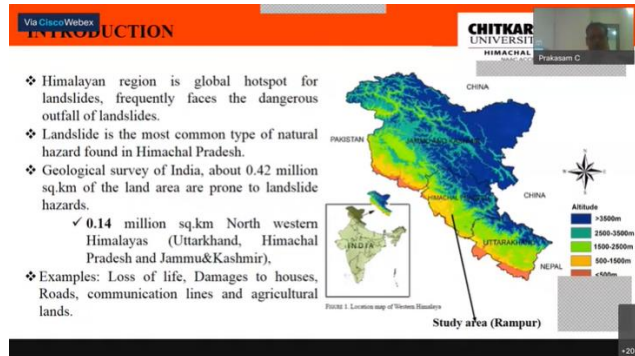
anthropogenic activities in landslide prone region and mentioned that the primary impact of this is loss of life and property. She discussed landslide in Raigad district and flood in Ratnagiri. More than 100 villages in Raigad are facing the risk of landslide and also told that 200 deaths occurred

due to intense rain in western Maharashtra and the coastal Konkan region due to monsoon over the entire State, including Sutarwadi and Kevnale regions. She mentioned that due to receiving particularly heavy showers the water level raised to 25 feet in Mahad, the situation remained particularly grim in the Mahad and Poladpur tehsils in

Raigad, Chiplun and Khed in Ratnagiri. Tragedy struck Taliye village in Mahad and the entire village of around 35 houses was instantly buried in a major landslip. She concluded the presentation by suggesting various roles of CBDM for community in landslide management.

**Dr. C. Prakasam, Associate Professor, Department of Geography, School of Earth Sciences, Assam University** delivered

his talk on “Probabilistic Evaluation of Landslide Vulnerability along the National Highways of Shimla Tehsil, Himachal Pradesh”. The presentation was an attempt to assess the vulnerability of Shimla Tehsil to landslides along the national highway.



Five causative factors such as land use and land cover (LULC), Geology, Geomorphology, Soil, Slope and Lineaments based data used to calculate landslide vulnerability for National highway of Shimla Tehsil. He discussed the role of various data used which denoted any down-slope movement of soil and rock under the direct influence of gravity. The research methodology was based on the five causative factors which showed the landslide inventory with respect to the time (in year). Further, the drainage density was also discussed with landslide vulnerability assessment. He concluded that landslide vulnerability mapping has been divided into 4 classes based on the rating ranging from low to very high. Based on the landslides inventory it has estimated that 40.6% of the landslide occur in the high category and 27.8 % occurs in the very category list. About 27.3% occurs in the moderate category.



**A. U. Anish, Assistant Professor, Department of Geology, Government College Kottayam** presented “Landslide and drainage divide breach: A case study from South Western Ghats, India”. The presentation was on drainage divide migration

reorganizes river basins, redistributing erosive energy. He highlighted the death rate toll usually depict the magnitude/ intensity of landslides, mass wasting process occurred at Ilamkad-Mooppamala, Kottayam District, Central Kerala on Sept 7, 2020.

He mentioned landslide is unique in its style of mass wasting and zero causality. Further, he told that there are chances for slips/slides in the terrain during heavy rainfall events and invited the attention of authority to have a detailed study in the terrain and to create awareness among the people about alter the effects of these natural disasters. He showed landslide inventory of Kerala occurred during August 2013. His study revealed that field observations on style of mass wasting in the study area is deduced as a topple failure and consequent debris flow under the influence of heavy rainfall. Due to toppling of heavy rock blocks created rocks blows and made the foothills unstable. He also revealed causative factors of landslide in detail and concluded his presentation through a comprehensive approach incorporating ground truth data analysis, modeling, prediction and action plan should be considered at the war foot basis for disaster risk reduction. He also said that infrastructural development such as network of rain gauge station, task force for community based disaster management is also required.

**Mr. Anil Kathait, Junior Consultant**

**NIDM** discussed on “A Case Study on Kotrupi Landslide 2017, Mandi District, Himachal Pradesh”. He presented exquisitely about landslide, a global natural hazard that occurred frequently in the areas of incompetent weak rocks, undulating topography, steep slopes and incessant rainfall. He mentioned, in



the midnight of 12-13 August 2017, a massive landslide took place at Kotrupi, Mandi district, Himachal Pradesh, India. The slide was so huge that it eroded a big stretch of NH-154 killing over 46 people besides loss of livestock, agricultural land etc. Further, elaborated that the area has always been unstable where small landslides had occurred in the past. He discussed various causative factors and impacts of that landslide which were based on the geological, geotechnical and geophysical investigations the site stability. He gave some key takeaway messages including a proper monitoring of such slopes potential to fail should be monitored appropriately. Moreover, there is need to incorporate the local knowledge in development planning process. Mr. Kathait said a proper documentation of such events are also very important.

## Technical Session II: Earthquakes Risk Reduction and Resilience



**Prof. Surya Parkash, Head, GMR Division, NIDM** started the technical session II and brief about the various earthquakes and tsunami which struck all over the India. He was actively working with various landslide and earthquake events since 1990 and he encountered his first earthquake at Uttarkashi on 20-10-1991. He also mentioned about various institutes engaging in studying, planning for risk reduction such as National Centre for Seismology, IIT Rorkee. He also discussed the first Guideline given by NIDM in 2008. **Prof. R. Baskar, GJUST, Hisar** was Co-Chairman of the Technical Session II:

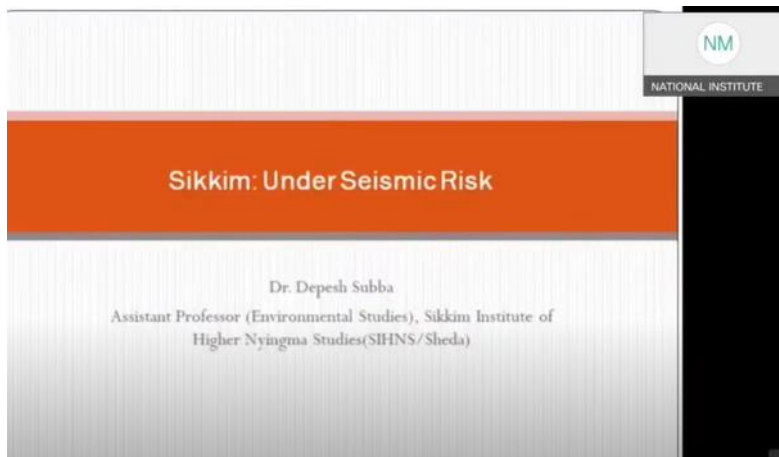


Earthquakes Risk Reduction and resilience.

**Mr. Anil Kathait, Junior Consultant, NIDM** was moderator of the session. He started the session with warm welcome of the dignitaries and participants. He also brief about the session chairs and four presenters of the technical session II.

**Dr. Usha, Associate Professor, Sri Sairam Engineering College, Chennai** was the first presenter of the technical session II. She gave her Presentations on Earthquakes and global preparedness. She discussed about various causes, types and effects of the earthquakes. Dr. Usha also mentioned various steps which should take of the earthquakes preparedness.





**Dr. Depesh Subba, Assistant Professor, Environmental Studies, Sikkim Institute of Higher Nyingma Studies (SIHNS)/Sheda, Pangthang** presented on Sikkim: Under Seismic Risk and discussed various factors which leads to earthquakes in the Sikkim

region. He also pointed out the highest earthquakes of 6.8 magnitudes which occur on 18-09-2011 in Sikkim Nepal border region and he mentioned overall structural damage due to this earthquake in the Sikkim region. He also emphasizes the economic losses as well as psychological trauma due to disaster which cannot be quantified .He also discusses various factors associated with vulnerabilities in the Sikkim region and gives the valuable policy suggestions for the preventative measures.

**Dr. R. Sivakuma, Professor, Department of Civil Engineering, SRM Institute of Science and Technology, Tamilnadu** was the third presenter of the II technical session. He spoke on the topic Geoinformatics based customized EQIS tool development to visualise Seismic parameters for Sikkim



Himalayan region, India. He discussed about the earthquakes Information system tools to minimize earthquakes induced damages (EQIS) and its advantages. He discussed how GIS tool can be customize with specific objective in order to get better analysis which

can be further use by policy makers in various development projects.

**Strategies of Hazard Management**



**Dr. Lenin Babu, Consultant, Institute for Social and Economic Change** was the last presenter of the session. He presented on Convergence of Strategies to Reduce the Risk: A Case study of Geohazards in

Vijayapura District. He discussed the community awareness, participation and training of skilled manpower to reduce risk of damage due to disaster like earthquake. He also emphasized the bottom -up approach strategies are more effective in Disaster Risk Reduction.

### Technical Session III: Tsunami Risk Reduction and Resilience

**Dr. Raju Thapa Junior Consultant, NIDM** was moderator of this session. He started the session with warm welcome of the dignitaries and participants. He also brief about the session chairs and presenters of the technical session III.



**Dr. Srinivasa Kumar Tummala, Director, INCOIS** started the technical session III and brief about the various tsunami which stuck all over the India. He talked about Global Tsunami Warning systems. He also explained various parameters in upstream and downstream Indian Tsunami warning system. He talked about the importance of roles of each and every parameter in upstream and downstream. He

discussed progress in Tsunami warning system since 2004 and challenges evidence from recent events.

**Dr. V.V. Binoy, Associate Professor National Institute of Advanced Studies** presented Communicating Risk and ensuring the protective action Decision making. He discussed about importance of communicating risk during tsunamis. He talked about failure of early warning in tsunamis. He emphasized



on mode of information about disasters by people. People generally follow information given by social media. Message given to people depends on source of information, about location of information, time, what type of hazard, and impact of hazard. Message of disaster should be shorter, sequential and optimal length. Protective action decisions about disaster depend on believing and personalization of people.



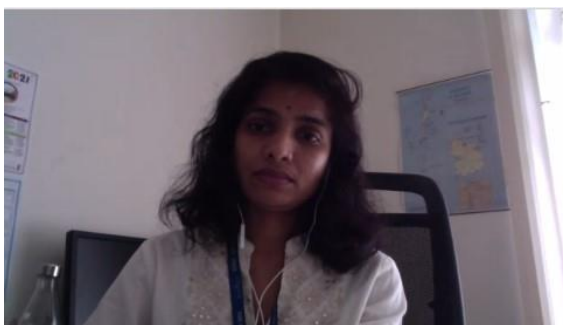
**Commandant N Somasundaram, Indian Coast Guard** shared his personal experience of Tsunami in 26 December, 2004. He added that in his more than three decades of experience as a mariner have encounter nature's fury many time but never like the intensity of the event that occurred on 26

December, 2004. The killer waves devastated the infrastructures, structures besides engulfing many precious lives.

**Chodvarapu Pantajali Kumar, Scientist E, INCOIS** was third presenter. His topic of presentation was Role of INCOSIS in Tsunami Risk Reduction and Resilience. Tsunamis are primarily caused due to large undersea earthquakes. He discussed about vulnerability of Indian Ocean coastline to ocean genic disasters so efficient functioning of Early Warning Systems is one the crucial aspects of disaster risk reduction. He shown potential Tsunami genic Zones He has talked on Indian Ocean Tsunami of December 26, 2004 in details and found the reasons for huge loss in this tsunami. Absence of Tsunami Early warning system and Tsunami preparedness program in India, ignorance of natural signs of tsunami are the main drawbacks for tsunami. He told about tsunami travel time and response time in India. There are three steps in Tsunami Early Warning System.: Detection, Warning and Dissemination. Various Participating agencies in India for tsunami are IMD, NIOT, ICMAM, SOI, NRSC, INCOIS etc.



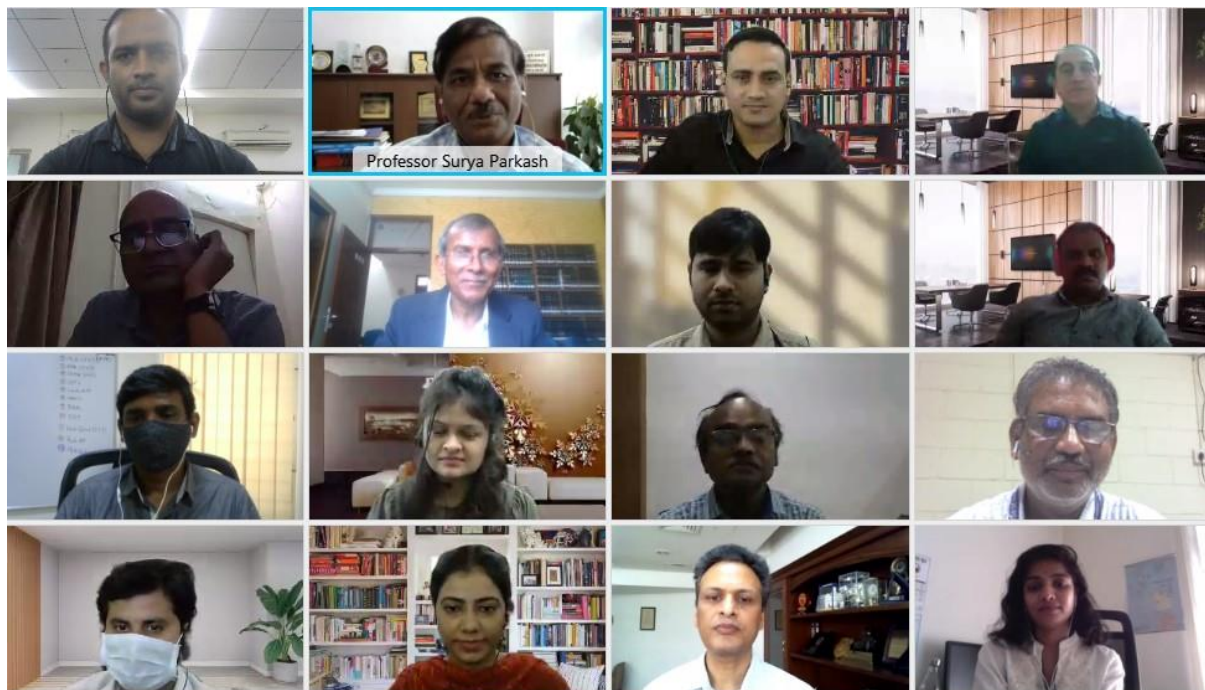
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**Dr. Vijaya Sunanda, Scientist E, INCOIS** gave the presentation on Role of DMOs in Tsunami Early Warning System. Warning Centre is “Eyes and Ears” for earthquake/tsunami. The Tsunami Warning Center detects earthquakes and evaluate tsunami potential, looks for sea level changes and issue warning messages. She has discussed about limitation of Tsunami Warning Center and warning chain of disaster. She has emphasized on challenges faced

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in Tsunami warning system. She told that there are threat level in bulletin like warning, alert, watch and threat passed to analyses the frequency and effect of tsunami.



## 7. KEY TAKEAWAYS

- Event clustering is of significant practical concern for the aggravated risk boost and for the added pressure on a resilience societal response since particularly building vulnerability to multiple events is not very well analyzed.
- So called Black Swan events or unknown or extreme rare events that toggle without apparent historical precedent, or passed Geological evidence are of grand challenge for the whole subject area of geo-hazards and geo risk.
- Gray Swan events, which are known, but are difficult to model also merit, special attention.
- Disasters are inevitable, some are man-made disasters and some disasters we have no choice, but to face.
- If we have the good number of for intellectuals, and we can train them, we can awaken them than so many losses can be saved in the form of live or any other things.
- The potential impacts of hazards tend to be ignored in the planning of land-use, development of structures, infrastructure, utilities, services and social economic processes.
- The recent extreme disasters that happen reveal gaps in the knowledge of geo-hazards available to planners, developers, financiers, and policy and decision

makers. It is very important to understand the full spectrum of geo-hazards, including the extreme events as a prerequisite for disaster risk management and increased resilience to these events.

- Any attempt to reduce the incidences and impacts of the potential disasters would require a good scientific understanding of the hazards and the likely vulnerabilities of the elements at the risk. As well as enhanced capacities to avoid or prevent, mitigate or resist and also recover from the risks within the acceptable social economic limits.
- The biggest challenge for all of us is when we deal with disasters, how we prevent the loss of lives and damages.
- As long as we prepare well it is possible for us to reduce the losses. We can face it with the resilience and we can learn lessons from the past disasters and work out models in a way that the loss in the future disaster is minimized.
- It is possible for us to reduce the losses provided we are little active provided, we act in time, we have contingency plans and provided we are able to make people aware of the risks.
- Coordination of various agencies can be a great help in serving the human lives and the loss to the property.
- In modern world, unfortunately in scientific as well as in civil administration, the left hand does not know what right is doing.
- Don't fight with nature, live with them. We have to work around the nature that rather than fighting the nature.
- We need to adopt the sustainable multi-hazard management approaches to strengthen Disaster risk reduction.
- Earth scientists /DM professionals should undertake research to better understand these hazards and contribute to risk management policies related to social and technical issues associated with geohazards as well as disaster mitigation.
- Proper monitoring of slopes potential to fail should be monitored appropriately. The slide was reactivated for third time. The dearth of proper monitoring of the slope led to the catastrophe.
- There is need to incorporate the local knowledge in development planning process.
- Documentation of disastrous events is crucial in strengthening the strategies to reduce the adverse impacts/risks of the landslides in our hilly slope.
- Need to check the slope health status. Before any construction activities we need to check the slope health status, whether the proposed construction is feasible or not, if not what should be the measures to ensure the safety of the slope.

- Disasters are avoidable but we are yet to mainstream DRR effectively.
- Academic institutions are ideal players in DRR.

## 8. PARTICIPANT'S PROFILE

407 participants of different academic background and different job profile from all over the country attended the conference on CISCO Webex Platform.

**YouTube Link:**

Day 1: <https://youtu.be/SIH2-Ph1DWU>

Day 2: <https://youtu.be/t1FAIs6sYBc>

## 9. PROGRAMME SCHEDULE

Venue: CISCO Webex Platform		
Day and Date: Thursday, September 23, 2021		
11:00 am – 12:05pm	<b>Inaugural Session</b>	
11:00am – 11:03am	Felicitation	<b>Dr. Harjeet Kaur</b> Junior Consultant NIDM
11:03am – 11:08am	Welcome Address	<b>Prof R Baskar</b> GJUST, Hisar
11:08am – 11:15am	Context Setting Address	<b>Prof. Surya Parkash</b> Head, GMR Division, NIDM
11:15am – 11:25am	Special Address	<b>Prof. B R Kamboj</b> Vice Chancellor, GJUST
11:25am – 11:35am	Keynote Address	<b>Maj. Gen. Manoj Kumar Bindal, VSM</b> Executive Director, NIDM
11:35am – 11:45am	Special Address	<b>Dr. Vishwas Mehta, IAS</b> Former Chief Secretary, Kerala <b>(Guest of Honour)</b>
11:45am-12:00pm	Inaugural Address	<b>Prof. Harsh K. Gupta</b> President, Geological Society of India
12:00pm – 12:05pm	Vote of Thanks	<b>Mr. Anil Kathait</b> Junior Consultant NIDM
<b>12:05pm – 01:35pm</b>	<b>Technical Session I: Landslides Risk Reduction and Resilience</b>	
7.5 minutes each	<b>Chairs:</b> <b>Prof. Surya Parkash</b> , Head, GMR Division, NIDM <b>Dr. Saibal Ghosh</b> , Director (Geology), GHRM Centre, GSI	
	<b>Moderator: Dr. Harjeet Kaur</b> , Junior Consultant, NIDM <b>Rapporteur: Dr Mona Sharma</b> , Assistant Professor, GJUST	
15 minutes each	<b>Presentations</b> <i>Vulnerability of Western Ghats: Study of Recent Occurrence of Landslides- Case study of Konkan Region</i> <b>Dr. Renu Bali</b> , Associate Professor, Department of Geography,	

	<p>Kamala Nehru College, University of Delhi  <b>Ms Kritika Katoch</b>, Department of Geography, Kamala Nehru College, University of Delhi</p>
	<p><i>Probabilistic Evaluation of Landslide Vulnerability along the National Highways of Shimla Tehsil, Himachal Pradesh</i>  <b>Dr. C. Prakasam</b>, Associate Professor, Department of Geography, School of Earth Sciences, Assam University</p>
	<p><i>Landslide and drainage divide breach: A case study from South Western Ghats, India</i>  <b>Dr. A. U. Anish</b>, Assistant Professor, Department of Geology, Government College Kottayam</p>
	<p><i>A Case Study on Kotrupi Landslide 2017, Mandi District, Himachal Pradesh</i>  <b>Mr. Anil Kathait</b>, Junior Consultant NIDM</p>
15 minutes	<b>Interactions, Discussions, Q &amp; A session</b>
<b>Lunch Break</b>	<b>55 minutes</b>
<b>02:30pm – 04:00pm</b>	<b>Technical Session II: Earthquakes Risk Reduction and Resilience</b>
7.5 minutes each	<p><b>Chairs:</b>  <b>Dr. Sumer Chopra</b>, Director, ISR  <b>Prof R Baskar</b>, GJUST, Hisar</p>
	<p><b>Moderator: Anil Kathait</b>, Junior Consultant, NIDM  <b>Rapporteur: Dr Santosh Bhukal</b>, Assistant Professor, GJUST</p>
15 minutes each	<p><b>Presentations</b></p>
	<p><i>Review on the World's Earthquakes and Global Preparedness</i>  <b>Dr. Usha S</b>, Associate Professor, Sri Sairam Engineering College, Chennai</p>
	<p><i>Sikkim: Under Seismic Risk</i>  <b>Dr. Depesh Subba</b>, Assistant Professor, Environmental Studies, Sikkim Institute of Higher Nyingma Studies (SIHNS)/Sheda, Pangthang</p>
	<p><i>Geoinformatics based customized EQIS tool development to visualise Seismic parameters for Sikkim Himalayan region, India</i>  <b>Dr. R. Sivakumar</b>, Professor, Department of Civil Engineering, SRM Institute of Science and Technology, Tamilnadu</p>
	<p><i>Convergence of Strategies to Reduce the Risk: A Case study of Geohazards in Vijayapura District of Karnataka</i>  <b>Dr. Lenin Babu</b>, Consultant, Institute for Social and Economic Change</p>
15 minutes	<b>Interactions, Discussions, Q &amp; A session</b>
<b>Day and Date: Friday, September 24, 2021</b>	
<b>11:00am – 12:30pm</b>	<b>Technical Session III: Tsunami Risk Reduction and Resilience</b>
7.5 minutes each	<p><b>Chairs:</b>  <b>Dr J Radhakrishnan</b>, IAS, Principal Secretary, Health and Family Welfare Department, Govt. of Tamil Nadu  <b>Dr. Srinivasa Kumar Tummala</b>, Director, INCOIS</p>
	<p><b>Moderator: Dr. Raju Thapa</b>, Junior Consultant, NIDM  <b>Rapporteur: Dr Anu Gupta</b>, Assistant Professor, GJUST</p>
15 minutes each	<b>Presentations</b>
	<i>Communicating Risk and Ensuring the Protective Action Decision-</i>

	<i>making</i> <b>Dr V V Binoy</b> , Associate Professor National Institute of Advanced Studies	
	<i>A ship's escapade during the Tsunami at Port Blair on 26 Dec 2004</i> <b>Commandant N Somasundaram</b> , Indian Coast Guard	
	Role of INCOIS in Tsunami Risk Reduction and Resilience <b>Dr. Patanjali Kumar</b> , Scientist E, INCOIS	
	<b>Dr. Vijaya Sunanda</b> , Scientist E, INCOIS	
15 minutes	Interactions, Discussions, Q & A session	
<b>12:30pm – 01:05pm</b>	<b>Valediction</b>	
12:30pm – 12:40pm	Conference Succinct	<b>Dr. K.V. Krishnamurthy</b> DDG (Retd.), Geological Survey of India and Council Member of Geological Society of India
12:40pm – 12:50pm	Special Address	<b>Prof Avnesh Verma</b> Registrar, GJUST
12:50pm – 01:00pm	Valediction Address	<b>Prof. Surya Parkash</b> Head, GMR Division
01:00pm – 01:05pm	Vote of Thanks	<b>Dr. Raju Thapa</b> Junior Consultant, NIDM
<b>Lunch Break</b>		
<b>03:00pm – 5.00pm</b>	<b>AGM Meeting 2021</b>	

# 10. POSTER



**Virtual National Conference**  
on  
**“Disaster Management with focus on Geohazards”**



Thursday – Friday  
23<sup>rd</sup> and 24<sup>th</sup> September  
2021 11:00 am – 04:00 pm

Register Here:  
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**LIVE on YouTube**

Day 1: <https://youtu.be/SH12-PhiDWU>  
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**National Institute of Disaster Management**  
Ministry of Home Affairs, GoI  
in collaboration with  
**Guru Jambheshwar University of Science and Technology and Geological Society of India**

Website: [www.nidm.gov.in](http://www.nidm.gov.in)

**Inaugural Session Dignitaries**

 Prof. Harsh K. Gupta President, GSI	 Dr. Vishwan. Mehta, IAS Former Chief Secretary, Kerala	 Maj. Gen. Manoj Kumar Bindal, VSM Executive Director, NIDM	 Prof. B R Kamboj Vice Chancellor, GJUST
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**Technical Session I: Landslides Risk Reduction and Resilience**

<b>Chairs</b>		<b>Distinguished Speakers</b>			
 Prof. Surya Parkash Head, GMR Division, NIDM	 Dr. Saibal Ghosh Director, CTRM Centre, GSI	 Dr. Renu Bali, Assoc. Prof., DU	 Dr. C. Prakasam Assoc. Prof., Assam Univ.	 Dr. A. U. Anish Assist. Prof., Govt. Coll. Kottayam	 Mr. Anil Kathait JC, NIDM

**Technical Session II: Earthquakes Risk Reduction and Resilience**

<b>Chairs</b>		<b>Distinguished Speakers</b>			
 Dr. Sumer Chopra Director, ISR	 Dr. R Baskar Professor, GJUST	 Dr. R. Sivakumar Prof., SRMIST	 Dr. Usha S Assoc. Prof., Sri Sairam Eng. College	 Dr. Depesh Subba Assist. Prof., SIHNS	 Dr. Lenin Babu Consultant, ISEC

**Technical Session III: Tsunami Risk Reduction and Resilience**

<b>Chairs</b>		<b>Distinguished Speakers</b>			
 Dr. J Radhakrishnan, IAS Principal Secretary, Govt. of Tamil Nadu	 Dr. Seelivasa Kumar Director, INCOIS	 Comdr. N Somasundaram Indian Coast Guard	 Dr V V Binoy Assoc. Prof., NIAS	 Dr. Patanjali Kumar Scientist E, INCOIS	 Dr. Vijaya Sunanda Scientist E, INCOIS

**Valediction Dignitaries**

 Mr. Sawkar R. H. Secretary General, GSI	 Prof Avnesh Verma Registrar, GJUST	 Dr. Harjeet Kaur Junior Consultant, NIDM	 Dr. Raju Thappa Junior Consultant, NIDM
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**Coordinators**

 Dr. Harjeet Kaur Junior Consultant, NIDM	 Dr. Raju Thappa Junior Consultant, NIDM
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Stay Protected from Corona

Wear your Mask Properly | Follow Proper Hand Hygiene | Maintain Social Distancing | Get Vaccinated

## 11. LIST OF PARTICIPANTS

S. No.	Name	Email
1.	ER. LALPIANGA CHHANGTE	piangamapuii@gmail.com
2.	NISHANT MISRA	nmishra.pratapgarh@gmail.com
3.	PRAGYA MISHRA	pragya.mishra8315@gmail.com
4.	SUCHIT GUPTA	suchitgupta38@yahoo.com
5.	SWETABH CHOUDHARY	swetabhkamal@gmail.com
6.	RAJESH KUMAR	rajesh40043@gmail.com
7.	LIPIKA RANI ROY	rlipika485@gmail.com
8.	MRINAL JYOTI BORA	mrinalbora23@gmail.com
9.	HUKMA RAM	hukmaramchouhan@gmail.com
10.	VAN JENNIFER JOAN WALLANG	vjjwallang@gmail.com
11.	RUMI AKTAR PARVIN	rumiaktarparvin@gmail.com
12.	PREETILATA MURMU	plpreetilata@gmail.com
13.	AKSHAYJIT PODDER	chem.akshayjit.aus@gmail.com
14.	BUDDHADEB GHORAI	buddhadebghorai1985@gmail.com
15.	THIYAGARAJAN RADHAKRISHNAN	rashmithiyagu@gmail.com
16.	RAJESH KUMAR PUTTA	prkbpc@gmail.com
17.	NAGARAJAN	nagarajan22563@gmail.com
18.	RESHMI MANNA	reshmi.manna@nsb.ac.in
19.	HAPPY SINGH SETHI	sethi125051@gmail.com
20.	NEHA GAUTAM	neha.gtm19@gmail.com
21.	SAKSHI PHD GEOGRAPHY ROLL NO 202066	maliksakshism@gmail.com
22.	SANDEEP YADAV	sandeepyadav@cblu.ac.in
23.	ANKIT SINGH	jaglan.ankit1207@gmail.com
24.	MUTHUSWAMY RAJARAM	rajaram@jbbodamail.com
25.	UPASANA YADAV	uyadav@lko.amity.edu
26.	SUMAN SAURABH	sumansaurabh07@gmail.com
27.	BALWAN SINGH	balwansingh357@gmail.com
28.	GEOLOGICALSOCIETYOFINDIA GSI	gsocind@gmail.com
29.	PRASAMITA SARKAR	drprasamitasarkar@gmail.com
30.	RESHMI MANNA	dr.reshmi.manna@gmail.com
31.	BHARADWAJ	bharadwaj2044@gmail.com
32.	PUSHPAHAS RAM TRIPATHI	pushpahastripathi@gmail.com
33.	SHEIKH UMAR	sheikhumar_17@nitsri.ac.in
34.	NIBEDITA MISHRA	nibeditamishra47@gmail.com
35.	GIRIDHARAN N	gn9372@srmist.edu.in
36.	T SRINIVASAMURTHY	ramasundari59@gmail.com
37.	SAMIUL SK	samiulsk5@gmail.com
38.	NEHA PANDEY	nehapandey2103@gmail.com
39.	MANOJ KASHYAP	kashyapmanoj25@gmail.com

40.	PRAKASH V S	vsprakash6666@gmail.com
41.	MANGALAM RAMANATHAN	mangalamr@am.amrita.edu
42.	SRI VISHNU PRASANTH B.R.	vishnuprasanthgeo@gmail.com
43.	VISHWANATH UPPUGUNDURI	viswuppu2@gmail.com
44.	MUSKAN MEHRA	muskan.vikas.mehra@gmail.com
45.	IRSHAD AHMAD BHAT	irshad.scholar@kashmiruniversity.net
46.	KALIDHAS M	kalidhas3025@gmail.com
47.	DR SANJAY KOUSHAL	koushalsanjay@gmail.com
48.	SESIKALA EMANDI	sesikalaemandi96@gmail.com
49.	GYANESHWORI	gyaneshoriy@gmail.com
50.	YENGGHOM RAGHUMANI	yengmani@gmail.com
51.	DEEPAK DUBEY	deepak.dubey97@gmail.com
52.	VINEET AHUJA	vineet.ahuja23@gmail.com
53.	RAMESH KUMAR	gpsvsjp@gmail.com
54.	SOMASUNDARAM N	nssc1992@gmail.com
55.	SABELLA VENKATA REDDY	sv.reddy@cisf.gov.in
56.	KAPPEY YADAGIRI	yadagiri.kaphey@gmail.com
57.	VINOD BHARDWAJ	vinodbhardwaj677@gmail.com
58.	SHRIKANT BAGWE	shrikant.bagwe12@gmail.com
59.	SACHIN PATIL	sachin3m@gmail.com
60.	NITYA NAND	nietya187@gmail.com
61.	MANISH PRASAD	prasadmanish20@gmail.com
62.	SHAHBAZ AHMAD	shahbaz.ameen@gmail.com
63.	KAMAL SHUKLA	kamalshukla@ipsacademy.org
64.	SELVAKUMAR CHIDAMBARAM	selvakumar.chem@sairam.edu.in
65.	SOHEL RANA	sohelrana8372828133@gimail.com
66.	SENTHILKUMAR K	senthil.geologist@gmail.com
67.	JANMEJAY TIWARI	janmejey01@gmail.com
68.	ROHAN MARK NIMMAGADDA	rohanmark.n@gmail.com
69.	LAKSHMI NARAYANA NAGISETTY	grcnln@gmail.com
70.	SAURABH KUMAR	saurabhkumar@mnnit.ac.in
71.	SIVAN YS	yssivan@gmail.com
72.	DEVI DUTT JOSHI	ddjoshi.saarc@gmail.com
73.	HILARIA SOUNDARI	hilariasoundari@gmail.com
74.	ER.MUKESH KUMAR SAUBHAGYA	mukesh_saubhagya124@rediffmail.com
75.	SANU KUMAR SAHA	sahasanu49@gmail.com
76.	JYOTI KOIRALA	jkoirala@yes.my
77.	N. VIVEKANANDAN	anandaan@rediffmail.com
78.	MAYUR RAUT	raut.mayur6@gmail.com
79.	SAURABH KUMAR	s.singh100nl@gmail.com
80.	LAXMI MOIRANGTHEM	laxmimoirangthem2021@gmail.com
81.	NEHA KUMARI	neha.kumari@gsi.gov.in
82.	AASHI POPLI	aashipopli@gmail.com
83.	SUMAN DAS	dassuman.1989@gmail.com

84.	PARTHA PRATIM NATH	pats.nath888@gmail.com
85.	SUMAN RANGA	suman1gcw@gmail.com
86.	M MOHANTY	manoranjnmoaha@gmail.com
87.	RATNESH SHARMA	ratneshmedha@gmail.com
88.	SHIVAJI	vivacity.acht@gmail.com
89.	RAHUL VERMA	rarkvermarahul@gmail.com
90.	DR.YASHASWINI.B	dryashaswini10@gmail.com
91.	PEEYUSH SRIVASTAV	moneysri2012@gmail.com
92.	PAVAN KUMAR VARSHNEY	pavan.ce@quantumeducation.in
93.	RISHABH SNEHEE	snehee.rishabh@gmail.com
94.	DR P LAKSHMI SRUTHI	plakshmisruthi@gmail.com
95.	SHEETAL RANI	sheetal@sghms38.com
96.	DR. ANJANA A V PANICKER	anjanasajayan@gmail.com
97.	RITAMBHARA UPADHYAY	ritambharaku@gmail.com
98.	TUSHAR BHELKAR	tusharbhelkar16@gmail.com
99.	ANIL KUMAR	anilkumar2127@gmail.com
100.	MR AMIT HARI GURAV	amit.h.gurav@gmail.com
101.	PARTH PARDESHI	parthdm01@gmail.com
102.	SHRUTHI H G	shruthi.hg17@gmail.com
103.	AV KARTHICK	avkarthick@gmail.com
104.	PADAM DEV SINGH	padam.malhar@gmail.com
105.	LEMHU WANG	lemhuwang@gmail.com
106.	SANJEEV GUPTA	fdpsanjeevpreeti@gmail.com
107.	SADEK	alisadek844@gmail.com
108.	SABIRUL SK	sabirul925@gmail.com
109.	K.V SUBBARAO	kaigala.subbarao@gmail.com
110.	DR. TAJU THAPA NIDM	razoothapa44@gmail.com
111.	DR J L GAUTAM	jl.gautam@imd.gov.in
112.	DR C PRAKASAM	c.prakasam@chitkarauniversity.edu.in
113.	AJIT BATHAM	ajit.nidm@govcontractor.in
114.	PALLAVI.MANGRULE22	pallavi.mangrule22@gmail.com
115.	DR. GAGANDEEP SINGH	gagan.longowalia@gmail.com
116.	ANAM JAMAL ANSARI	ansari.anamj@gmail.com
117.	DR AHMED ABDUL HALEEM KHAN	aahaleemkhan@gmail.com
118.	RAVI KUMAR PANDEY	ravipandey.sdvidya@gmail.com
119.	AMIT GURAV	amit.h.gurav@gmail.com
120.	DR. PUNITH KUMAR V.	physicspunith@gmail.com
121.	SAURABH MITTAL	smittal@ddn.upes.ac.in
122.	BENIDHAR DESHMUKH	bdeshmukh@ignou.ac.in
123.	GEOLOGICAL SOCIETY INDIA	gsocind@gmail.com
124.	VISHAL BHARDWAJ	vishalkumarbhardwaj9@gmail.com
125.	PRADOSH RANJAN JENA	jenapradosh29@gmail.com
126.	ARVINDRA MAURYA	subh9598@gmail.com
127.	DR. SUNIL KUMAR AHIRWAR	dr.sunil.ahirwar@gmail.com

128.	E MOHAN RAJ	mohanngeo@gmail.com
129.	J.LAWRENCE VU3XQI	lawrence.lawru@gmail.com
130.	PROSUN ROY CHOWDHURY	prosunrc2017@gmail.com
131.	NCMEHROTRA	mehrotrabsip@rediffmail.com
132.	AKHILA KISHORE MALLICK	akhilakishoremallick@gmail.com
133.	PRAKASAM C	cprakasam@gmail.com
134.	PRASHANT ILAMKAR	ptilamkar@gmail.com
135.	SRINIVAS BICHAL	sreenubichal@gmail.com
136.	M VERMA	mverma.moes@gmail.com
137.	ANAM JAMAL	ansari.anamj@gmail.com
138.	HAKEEM MATEE UR RASOOL	mateurrasool@gmail.com
139.	KALP BHUSAN PRAJAPATI	nature.kalp@gmail.com
140.	PRANJIT SAIKIA	pranjitsaikia313@gmail.com
141.	SWATI VERMA	swati.verma@opju.ac.in
142.	DR. S.SRIKANTAPRASAD	geosriprasad@gmail.com
143.	VISHVA PRAKASH MEHRA	vishvaprakashm@gmail.com
144.	APURBA SARMA	apurbaasarma@gmail.com
145.	SHRITHI BADAMI	shrithisb@rvce.edu.in
146.	ASHWANI PURI	appuri007@gmail.com
147.	BIDISHA BARUAH	baruah.bidisha396@gmail.com
148.	ANTO FRANCIS	kfanto@gmail.com
149.	MANISH KUMAR	manishkhadia87@gmail.com
150.	VIVEKANAND KADAM	vivek91587@gmail.com
151.	JYOTI SANGWAN	jjyotisangwan176@gmail.com
152.	PREM ADHEESH LEKHI	saiadheish1008@gmail.com
153.	BEVELIO GOES	goesbevelio@gmail.com
154.	BIDYA.NERIST	bidya.nerist@gmail.com
155.	CHANDER KANT	ck8132@gmail.com
156.	DDMA WEST	ddmawestd@gmail.com
157.	JAHANGIR HOSSAIN	jaky9734@gmail.com
158.	SANJAY DESHMUKH	swadeshsanjay@gmail.com
159.	MEFTANUR JANNA	meftanurjanna@gmail.com
160.	AA SARMA	apsarma1@gmail.com
161.	VIMAL	vimalgeo@gmail.com
162.	DR LALDINPUIA	dinpuiageo@gmail.com
163.	PUSHPRAJ SINGH RAJAWAT	majpsr@gmail.com
164.	SARAVANAN MKSRKJ0007	saravanant2@gmail.com
165.	PARAMJEET SINGH JAGDEV	paramjeet.jagdev@suzlon.com
166.	EHTISHAM AHMAD KHAN	eakhan1@gmail.com
167.	KSHITIJ MALL	kshitijmall1998@gmail.com
168.	RAMEEZ GAZI	rameez.gazi@gmail.com
169.	BK BANSAL	bansal.moes@gmail.com
170.	PROF.DR.VEZHAVAN THILLAIGOVINDAN	vezhavan@gmail.com
171.	SHIV MURAT	shivmuratdbns@gmail.com

172.	ASHISH NATH	ashish.knath@gmail.com
173.	ARVIND CHAUHAN	arvindchauhan.chauhan081@gmail.com
174.	JONAYED ROUSAN	jonayedrousan505@gmail.com
175.	PROF. MEENAL MISHRA	meenalmishra@ignou.ac.in
176.	DR. DHONDIRAM TUKARAM SAKHARE	sakharedhondiram@yahoo.com
177.	WAFULA PETER	pwafula69@gmail.com
178.	MD JASIM EQBAL	jasimeqbal64@gmail.com
179.	AHAMMED KABEER	kabeerta1@gmail.com
180.	LALITA RANA	lalita@rpcau.ac.in
181.	KK SARMA	kk.sarma@nesac.gov.in
182.	BENIDHAR	benidhar@gmail.com
183.	DEPESH SUBBA	depeshsubba11@gmail.com
184.	MOHAMMAD ASIF RAJA	asif.best1989@gmail.com
185.	KUMAR GANESAN	kumarg@hku.hk
186.	DR.D.RANJITHKUMAR	rskumarranjith@gmail.com
187.	DR. SANTOSH BHUKAL	santoshesegju@gmail.com
188.	SENTHIL KUMAR G.R.	gr_senthilkumar@yahoo.com
189.	RITU PANDEY	meritupandey@gmail.com
190.	ATHIF SAYYAF	athifsayyaf786@gmail.com
191.	KRISHNAMURTHY PADMANABHAN	gsocind@gmail.com
192.	K.LALRAMDINTHARI	ruthikhawlhring6@gmail.com
193.	DEEPAK	deepaklohan14@gmail.com
194.	DR. HARI BALLABH	ballabh2228@gmail.com
195.	KAKOLI GOGOI	kakoligogoi@ignou.ac.in
196.	DR. ANJALI AGRAWAL	anjagr8885@gmail.com
197.	DR.RANKUSH KUMAR DALOTRA	dalotrageo2009@gmail.com
198.	ANJU DEVI	anjushah98143@gmail.com
199.	ANJALI VERMA	anjusktv@gmail.com
200.	MD. HOSSAIN	azahargsb@gmail.com
201.	O. ABU-LIBDA	abulibda.o@gmail.com
202.	ASHUTOSH SINGH	ashutoshsingh7747@gmail.com
203.	BAROT HITESHKUMAR R.	barothitesh13188@gmail.com
204.	SHOBAN THAKUR	sbt1010@gmail.com
205.	RAJNISH KUMAR JAGYA	rajnish.kumar@hpgcl.org.in
206.	DR VIJAY CHAWLA	vijaychawla95@gmail.com
207.	NITIN AINAPURE VU2CAN HAMCOM	vu2can@gmail.com
208.	DR.SREEKUMAR S	sreeavani1961@gmail.com
209.	JYOTI BIKASH DATTA	jyotibikashblg@gmail.com
210.	RAKESH HOODA	rakeshhooda170@gmail.com
211.	SHILPA SONI	sonishilpa1982@gmail.com
212.	RESMI K S	resmiksgoinf@gmail.com
213.	MAHENDRA KUMAR NAYAK	smitamahendra669@gmail.com

214.	PRAMOD YADAV	ce1005600053@gmail.com
215.	DR. VINOD GOVIND NIKAM	drvinodnikam82@gmail.com
216.	MANOJ NIMBALKAR	manoj.nimbalkar@gmail.com
217.	GOLFINSTAR KHARBANI	gstarkharbani@gmail.com
218.	JAYANTA LASKAR	jlaskar@gauhati.ac.in
219.	NILESH B MISHRA	mishranb@gmail.com
220.	ASHABAKMEN KHARBANI	ashabakmen95@gmail.com
221.	AJAY GOUD	goud.ajay@yahoo.com
222.	VINAY KUMAR RAMAN	vinaykumarraman.vkr@gmail.com
223.	SUBHAS GARAI	subhas200garai@gmail.com
224.	PRADIP PATTAJOSHI	pkpattajoshi@gmail.com
225.	DR. E. PRASANTH A. P	nohpap@gmail.com
226.	DR NIKHAT BANO	nikhatamu@gmail.com
227.	AIBOR LYNNGDOH	aiborlanglyngdoh@gmail.com
228.	VIRENDRAKUMAR THAKKAR	virendrakumarthakkar@gmail.com
229.	AJAY KUMAR BIYANI	biyani53@gmail.com
230.	SHEKHAR AMBARWADIKAR	ehs.sin@nilkamal.com
231.	SREERAMA NAIK	shree.rathod72@gmail.com
232.	AMIT RAJ	amitraj.hse@gmail.com
233.	DR SANDEEP PETKAR	sandeep.petkar@ghru.edu.in
234.	ANNI RANI DAS	dasannie98@gmail.com
235.	YK MAWALE, SGBAU, AMRAVATI	m_yadaorao@yahoo.co.in
236.	A A	a@gmail.com
237.	TENZIN KHANDU	khandu514@gmail.com
238.	DR INDIRA SRIVASTAVA	isrivastava89@gmail.com
239.	GAJENDRA KUMAR	gajendrachaurasiya@gmail.com
240.	DEVENDER KUMAR	devraj.1990.j@gmail.com
241.	ARUN KUMAR CHOUDHARY	akchoudhary.bit@gmail.com
242.	DEEPALI HARIBHAU SHINDE (MSC ENV SCI)	deeps12sarda@gmail.com
243.	TARASANKAR MAJI	tarasankarm3@gmail.com
244.	RAMAN SAXENA	raman4saxena@rediffmail.com
245.	RADHIKA KN	knradhika13@gmail.com
246.	CHODAVARAPU PATANJALI KUMAR	patanjali@incois.gov.in
247.	RAMESH BHATT	ramesh.bhatt1987@gmail.com
248.	HAFIZ MOHAMMOD NASIR GHANI HAIDER	nasirgani20@gmail.com
249.	DR SREYASHI SARKAR	sreyoshi_sarkar@yahoo.co.in
250.	DOLLY RABHA	dollrabha123@gmail.com
251.	SUBHASH JARYAL	badalakash5@gmail.com
252.	AMANPREET KAUR	amanpreet1308@gmail.com
253.	J.JEYASUTHAN	j.jeyasuthan@gmail.com
254.	KIRAN JALEM	kiranjalem.nird@gov.in
255.	SNEHASHIS MITTRA	snehashismitra@gmail.com

256.	PALLERLA SHANKARAI AH	palerlashankar@gmail.com
257.	NITISH KUMAR	nkumar4@ggn.amity.edu
258.	SHIKHAR KUMAR	shikhar5070@gmail.com
259.	UTTA ULLA	uuttaauullaa2014@gmail.com
260.	JOY GEORGE	joyg194@gmail.com
261.	PROF. BS CHAUDHARY	bschaudhary@kuk.ac.in
262.	ADITI SETH	aditiset238@gmail.com
263.	GOWTHAM PRASAD M E	gowthamprasadme@rvce.edu.in
264.	NEHA GOEL	nehagoel.agrawal@gmail.com
265.	RAVI RAJ	ravirajchaudhary007@gmail.com
266.	KAREENA SINGHANIA	kareenasinghania1@gmail.com
267.	RAJEEV C	sairajivsaiy@gmail.com
268.	M K GANESHAN	mkganeshanmba@gmail.com
269.	PANKAJ MISHRA DISASTER SPECIALIST	ddmamoradabad@gmail.com
270.	MR.JAMES VAIPHEI	jamesvaiphei288@gmail.com
271.	SHIVABEERAPPA.M	shivabeerappa@sdmmmkmysore.in
272.	RICHA SINGH	singh.richa888@gmail.com
273.	RAMAMOORTHY SIVAKUMAR	sivageoinfo@gmail.com
274.	ATUL DUTTA	atuldutta08@gmail.com
275.	NAVEEN HAKHOO	naveen@jugaa.com
276.	RAJU K	sairaju2010@gmail.com
277.	DURGA DATT RATURI	ddraturi@gmail.com
278.	SIMMIN BAWA	simmin.bawa@jaihindcollege.edu.in
279.	DIPALI JINDAL	dipali.nidm@govcontractor.in
280.	CHANDRA MOHAN	gurgaonmohan@yahoo.co.in
281.	DILIP SAHA	sahad.geol@gmail.com
282.	AVIK KUMAR MANDAL	avik@lasaindia.com
283.	AMATA MARIAM JAMES	amata15ammu@gmail.com
284.	LALROKIMA CHENKUAL	kimamizo@gmail.com
285.	DR. SHARWAN KUMAR SINGH	sharwankumarsingh@gmail.com
286.	SRU	prameelamotika1995@gmail.com
287.	KAVITA KAUSHIK	kaushikkavita99@gmail.com
288.	DHRUV PATEL	dhruv.vr.patel@gmail.com
289.	KUSUM MALIK	kusumworking@gmail.com
290.	DR. NITIN KUMAR SHARMA	nitinbot@gmail.com
291.	GAURAV SINGH	singhgaurav.env@gmail.com
292.	ASHWIN THAMMAIAH K	ashwintammaiahk@rvce.edu.in
293.	SNEHASISH GHOSH	snehasis@srmist.edu.in
294.	DR. SANTOSH	santoshesegju@gmail.com
295.	PEKI KHAWLHRING	pekikhawlhring2000@gmail.com
296.	ARUN S	arunsaju94@gmail.com
297.	PURNACHANDRA RAO	pcrao.ngri@gmail.com
298.	SYED MOHD ASGHAR RIZVI	rizamu10@gmail.com
299.	BALASUBRAMANIAN	geobalaceg@gmail.com

300.	DR PRAMOD HANAMGOND	hanamgondpt@gssbgm.edu.in
301.	KALIDHAS M	kalidhasvasantham@gmail.com
302.	HARI SANKAR ROUT	swati_pab@yahoo.co.in
303.	SURAJ DAS	ujjibansociety@gmail.com
304.	PANKAJ KUMAR	pankajkumar291112@gmail.com
305.	VANLAL CHHUANPUII	kvanlalchhuanpuii@gmail.com
306.	AMEY KADAM	kadamamey.2010@gmail.com
307.	SRI VISHNU PRASANTH B R	vishnuprasanthgeo@gmail.com
308.	PROF PRAVEEN SHARMA	praveen.gju@gmail.com
309.	HARBAKHASH SINGH	hs.civildefence@gmail.com
310.	DR SRINIVASA REDDY MANDALA	ms.srinivasa@gmail.com
311.	DR.SEEMA CHOUDHARY	karwasara1975@gmail.com
312.	PRASHANT RAJ	prashantraj14199@gmail.com
313.	ARTI MISHRA	artimishra303@gmail.com
314.	RITESH KUMAR T&CB BILASPUR HP	heerrk77@gmail.com
315.	DR AMRIT LAL HALDAR	amritlalhaldar@gmail.com
316.	RAMEEZ RAJA GAZI	rameez.gazi@gmail.com
317.	GOMASA RAMESH	rameshgomasa1@gmail.com
318.	SAJEEV R	rsajeev.gsi@gmail.com
319.	RASIK RAVINDRA	rasikravindra@gmail.com
320.	MICHAEL JOSEPH MARSHALL	mikejoemarsh@gmail.com
321.	NEHA BANSAL	nehabansal02@gmail.com
322.	F. LALRUATSANGA	lalruatsangaf8@gmail.com
323.	TAPAN JATAKIA	tapan_ditu_17.20@outlook.com
324.	KRITIKA KATOCH	kritika.katoch13@gmail.com
325.	SUBIAYA BASHIR	subiayabashir2@gmail.com
326.	A V JEYAGOPAL	avjeyagopal58@gmail.com
327.	SUDHAKAR K	drksr1282@gmail.com
328.	SUNIL KUMAR	raju@ndimdelhi.in
329.	MAYANK JOSHI	mayank.geo@gmail.com
330.	OMKAR CHATURVEDI	omkarchaturvedi19@gmail.com
331.	GODHAVARI K S	godha.kadaba@gmail.com
332.	DAMODAR PANDA	damodar_65@rediffmail.com
333.	CHANDRAKALA TAMANG	tmg723ckla@gmail.com
334.	J LAWRENCE	lawrence.lawru@gmail.com
335.	ARUP DHAR	drarup2006@gmail.com
336.	RIZWAN AHMAD KHAN	rakhan81.cv@gmail.com
337.	LAMPHRANG LALOO	lamphranglaloo@gmail.com
338.	AMICA	amica10070@gmail.com
339.	DR. KARANPREET KAUR	kaurkaranpreet30@gmail.com
340.	SANDHYA THAPA	sandhyanorzing@gmail.com
341.	HARSHLEKHA	lekhaharsh75@gmail.com
342.	MAYANK SHUKLA	mayank.shukla5@aexp.com
343.	PRAVEEN KUMAR	pk.hpkv@gmail.com

344.	AMIT SHARMA	amitkush49@gmail.com
345.	RAJENDRAN N	n.rajendran49@gmail.com
346.	USHA S	usha.che@sairam.edu.in
347.	KAPILASH R MARAK	kapilmarak@yahoo.com
348.	SUBHAJYOTI DAS	subhajyoti_das@hotmail.com
349.	SANJAY KUMAR JHA	sanjay.sindri@gmail.com
350.	HUOY UK	uk.huoy@gmail.com
351.	DR.K. CHANNABASAPPA CHANNABASAPPA	channa17@rediffmail.com
352.	DR. SHALINI JAISWAL	sjaiswal@gn.amity.edu
353.	CHODAVARAPU PATANJALI KUMAR	patanjali@incois.gov.in
354.	23IH04 AARYA SAJAYAN	sajayanps1974@gmail.com
355.	NIKHAT BANO	nikhatamu@gmail.com
356.	DELIGHTFULNESS L KYNSHI	delightfulnesslyngdoh@gmail.com
357.	CHIKKANNA T	chikkanna@sarathygeotech.com
358.	SYED KAUSAR SHAMIM	kausar55@gmail.com
359.	LUCKY MARY GAROD	garodmarylucky@gmail.com
360.	SANJIB BHATTACHARYA	sanjibbhattacharya23@gmail.com
361.	RITIKA GAUTAM	ritikagautam23@gmail.com
362.	SANTOSH KUMAR	kumargis85@gmail.com
363.	AADYA ANJALI	aadya2399@gmail.com
364.	VENKATESH R	lakatesh@gmail.com
365.	HEMANT BHANDARI	microchip04@gmail.com
366.	PROFESSOR SURYA PARKASH	surya.nidm@nic.in
367.	PRADEEP KULKARNI	ppkguru@rediffmail.com
368.	DR. SAIBAL GHOSH	saibal.ghosh@gsi.gov.in
369.	DR C PRAKASAM	cprakasam@gmail.com
370.	MOIRANGTHEM KUNJARAJ SINGH	moirangthemkunjaraj33@gmail.com
371.	D. SRINIVASA SARMA	dssarma@ngri.res.in
372.	RENU BALI	bali@knc.du.ac.in
373.	SHASHI KIRAN C R	shashikiranr@rvce.edu.in
374.	PROF.DR.IMANAVALAN ILAKKUVAN	imanavalan56@gmail.com
375.	PANKAJ VERMA	verma.stpauls@gmail.com
376.	AAKASH UPADHYAY	akashdse@gmail.com
377.	LOGESH P	logeshpalanivel01@gmail.com
378.	SANJAY NEGI	negi5467@yahoo.co.in
379.	DR ANIL KUMAR	anilkumar-cgwb@gov.in
380.	AVINASH	avinashce104@gmail.com
381.	ANUJ KUMAR	anuj2208@rediffmail.com
382.	MARDRELLA KHARMAWPHLANG	mkmawphlang@gmail.com
383.	DR.ARUN S. VAIDYA	vaidya.asc@bub.ernet.in
384.	NITIN NAUGAIN	nitin.naugain@in.ey.com
385.	MASILAMANI PALANISAMY	masilamani@bdu.ac.in

386.	SAMEER PADHA	s.padha73@gmail.com
387.	YOGESH BADHE	yogeshspb94@gmail.com
388.	ZOTHANZUALI	zoteichhangte4@gmail.com
389.	HARJEET KAUR	harjeet0909@gmail.com
390.	MANJARI UPRETI	manjariupreti29@gmail.com
391.	RAVINDRA REDDY M	ravindraoudepts@gmail.com
392.	SUMAN DEBNATH	sd8810037@gmail.com
393.	ES LANGSHIANG	lyngchiangbormi@gmail.com
394.	ANISH A U	anishgold@gmail.com
395.	YENGMAN RAGHUMANI SINGH	yengmani@gmail.com
396.	SHARVESH KUMAR	sarveshroy811@gmail.com
397.	BENJAMIN LALENGLIANA SAILO	benasailo1998@gmail.com
398.	DR DINESH PANDIT	dpandit@hotmail.com
399.	MD RAKIBUL HASAN	rhp.rakibul7@gmail.com
400.	DAVID LALBIAKKIMA	davidlalbiakkima67@gmail.com
401.	VIPIN KUMAR	vbhardwaj976@gmail.com
402.	K V KRISHNAMURTHY	kvkm55@gmail.com
403.	DR.TAMASMITA BASU	drtamasmitabas@gmail.com
404.	MANOJ KUMAR JHA	manoj61367@gmail.com
405.	PROFESSOR DR GOVIND SINGH BHARDWAJ	gsrao1957@gmail.com
406.	DR. MONA SHARMA	drmonasharma1@gmail.com
407.	BHOGISETTI MAHABALESWAR	editorjournalgsi@gmail.com