



**IGS-STUDENT CHAPTER**

**A Webinar on  
Landslide Mitigation Systems Using Flexible Geotechnical Structures**



**By**

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Organized by

***Department of Civil Engineering***

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|  <p>The e-poster features the KITS logo at the top left. The main title is "Webinar on 'Landslide Mitigation systems using Flexible Geotechnical structures'". It is organized by the IGS Student Chapter, Department of Civil Engineering, at KKR &amp; KSR INSTITUTE OF TECHNOLOGY &amp; SCIENCES(KITS), Guntur, A.P. The speaker is Ms. Minimol Korulla, Vice President &amp; Head, Strategic Initiatives, Maccaferri Environmental Solutions Pvt. Ltd., Gurgaon, India. The webinar is scheduled for Jul 11, 2020, at 11:00 AM India. Zoom meeting details are provided: Meeting ID: 878 2213 8116, Password: 509884. It is the 44th webinar of the IGS Guntur Chapter.</p> |  <p>The topic slide is titled "Landslide Mitigation Systems using Flexible Geotechnical Structures". It is presented by Minimol Korulla, Head - Strategic Initiatives ISEAP, Maccaferri. The slide includes a photograph of a landslide in a mountainous region and the Zoom logo.</p> |
| <p>e-POSTER</p>   | <p>TOPIC</p>  |

The IGS- Student Chapter of Department of Civil Engineering has conducted a webinar on Landslide Mitigation Systems Using Flexible Geotechnical Structures on 11th Jul , 2020. The lecture was delivered by Ms.Minimol Korulla, Vice President & Head -Strategic Initiatives, Maccaferri Environmental Solutions Pvt. Ltd.,

In this webinar lecture more than 100 participants have attended from various institutes and industry.

In her presentation **Ms.Minimol Korulla** explained about many aspects related to landslides. The solutions designed by her to face the after effects of landslides were discussed. She also demonstrated case studies addressed by her at various locations in around the world

### LANDSLIDE SCENARIO IN THE COUNTRY

Not confined to only hilly or mountainous areas but also coastal areas too

LANDSLIDES IN HIMALAYAS - A PERENNIAL PROBLEM

22 states and 2 union territory of the country are affected by landslides, although they differ from the scale of severity of disaster.

LANDSLIDES IN MIZORAM

LANDSLIDES IN Ar. P.

LANDSLIDES IN MANIPUR

LANDSLIDES IN MEGHALAYA

LANDSLIDES IN ASSAM

LANDSLIDE IN UTTARAKHAND

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### MULTIDISCIPLINARY APPROACH AND TYPICAL SOLUTIONS

**“Combination of solutions may be required”**

1. Drainage works
2. Retention structures for stabilizing valley side filling
3. Toe walls to protect toe of the hill slope.
4. Erosion Control Measures
5. Rockfall Mitigation Measures
6. River Training Works
7. Instrumentation and monitoring
8. Maintenance aspects

MULTIDISCIPLINARY APPROACH AND TYPICAL SOLUTIONS

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The webinar took place in online platform. About 100 participants attended the webinar After the lecture **Ms.Minimol Korulla** answered a few questions posted by the participants.

### TYPICAL SOLUTIONS SCHEMES

- Drainage measures
- Rockfall Mitigation and slope protection measures
- Cutslope stabilization measures
- Soil reinforcement and retention measures
- Pavement stabilization measures

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### TYPES OF ROLLED EROSION CONTROL MEASURES

| Biodegradable mats   | 3D geosynthetic mats   | 3D reinforced geosynthetic mats   |
|--|--|---|
|  |  |   |
| <ul style="list-style-type: none"> <li>✓ Suitable for gentle slopes</li> <li>✓ Low rainfall intensity application</li> </ul> | <ul style="list-style-type: none"> <li>✓ Slope inclination upto 65 degree</li> <li>✓ Less severe environmental conditions</li> </ul> | <ul style="list-style-type: none"> <li>✓ Slope inclination upto 75 degree</li> <li>✓ Severe environmental conditions</li> </ul> |

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