



**Divya P.V.**  
Ph.D. IIT Bombay  
Assistant Professor, Civil Engineering  
divyapv@iitpkd.ac.in, 04923-226467  
<https://iitpkd.ac.in/people/divyapv>



### Research Interests

- Reinforced Soil & Ground Improvement Techniques
- Geosynthetics: Geotechnical and Geo-environmental applications
- Rainfall triggered slope failures
- Bulk utilization of potential waste materials in geotechnical applications
- Green Geotechnics

### Brief Summary of Research:

When a project encounters difficult site conditions, one viable approach is to rely on ground improvement. Geosynthetics can be used in various geotechnical & geo-environmental applications, because of their wide application prospects. Other current research area includes the value addition of waste materials such as construction & demolition waste in bulk geotechnical applications such as a structural fill in reinforced soil walls and granular columns. Slope failures and landslides due to rainwater infiltration and failures due to piping, erosion and settlements after heavy rainfalls are of serious concern and hence the present research focus.

#### Reinforced soil & Ground improvement Techniques

**Coir geotextile**

Without Stone columns  
With Stone columns

#### Geosynthetic reinforced MSE walls

Geogrid

#### Utilization of Construction & Demolition waste in geotechnical applications

MSE wall

#### Rainfall triggered slope failures

0.2 m - Reinforced zone  
25 m  
0.2 m  
25 m

**Recent Publications:** <https://iitpkd.ac.in/publications/101>