

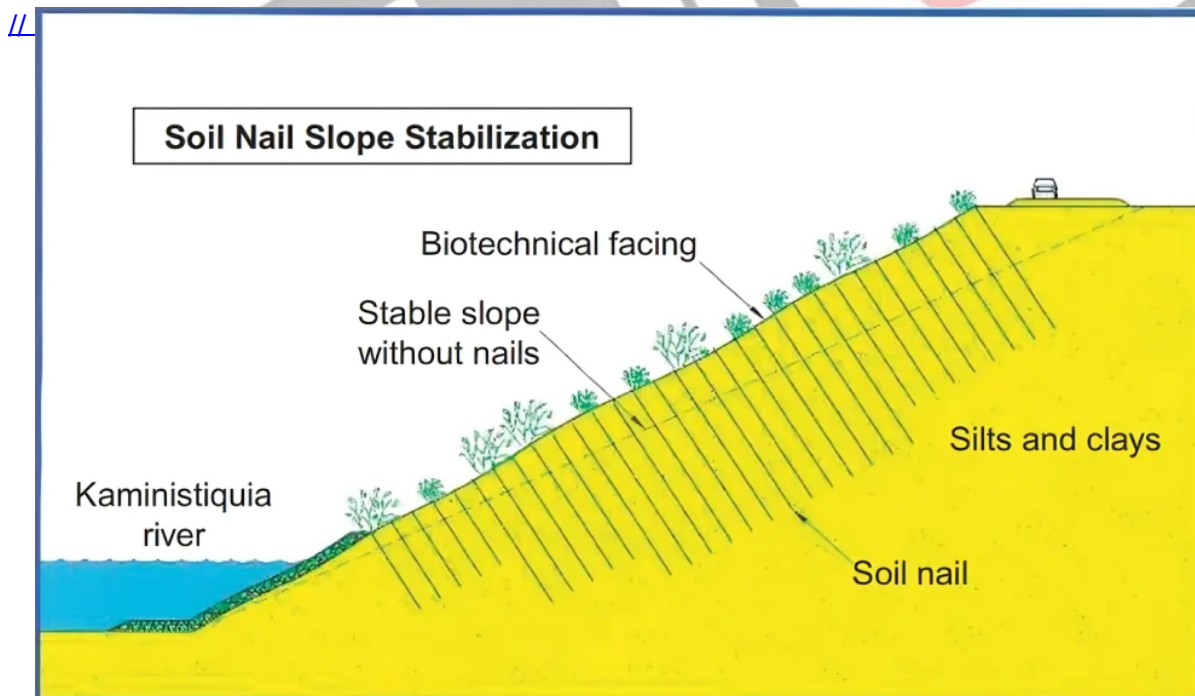


## Soil Nailing and Hydroseeding for Landslide Prevention

[Source: TH](#)

In a proactive move to address the **persistent problem of [landslides](#) in the ecologically sensitive [Nilgiris region](#)**, the State highways department is implementing a sustainable '**green**' solution using the **soil nailing and hydroseeding technique**.

- Soil nailing is a **geotechnical engineering technique** that **involves the insertion of reinforcing elements into the soil to strengthen it** and prevent soil erosion.
- Following the soil nailing process, the '**hydroseeding**' method will be applied, which **involves the application of a mixture of seeds, fertiliser, organic materials, and water onto the soil** to facilitate the growth of grass and plant-life.
  - Around five species of grasses, including a few local species native to India, will be grown along the slopes.
  - The highways department will be responsible for the maintenance of the grasses once the hydroseeding is completed.
- This 'green' solution of preventing landslides through soil nailing and hydroseeding will help mitigate the impact of linear infrastructure, such as roads, in the ecologically sensitive Nilgiris region.



**Read more:** [Building Resilience Against Landslides](#)

PDF Reference URL: <https://www.drishtias.com/printpdf/soil-nailing-and-hydroseeding-for-landslide-prevention>

