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Numerical Evaluation of Slope Stability measures: A Case Study of Birham Landslide

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Slope failures endanger the public safety and one of major hazard considered in mountainous terrain. In this paper, slope stability measures have been evaluated using the kinematic approach of limit equilibrium (LE). A case study of slope failure from Birham land slide, Murree, Pakistan has been modeled using LE based software SLOPE/W. In-sitboring tests are performed to collect labortary test specimens. Geotechnical properties (i.e. shear strength and stiffness parametrs) for the idealied slope sections are based on labortary tests. Slope stability measures are evaluated in terms of factor of safety (FOS) for unreinforced and reinforced slopes with piles. Based on computed FOS for various combinations of pile locations and numbers, slope stability measures havebeen discussed.

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