

Title : Slope Stability Analysis at Ban Pa Hung, Pa Hung Subdistrict, Phan District, Chiang Rai Province

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ABSTRACT

Landslides pose significant risks to human life and property in Ban Pa Hung Subdistrict, Phan District, Chiang Rai Province of Thailand, due to its location along hillside slopes and foothill regions. The area's varying soil types and geological characteristics result in differential landslide susceptibility across locations. This study investigated the engineering properties of local soils to assess slope stability. Soil characterization revealed dark brown sand-clay mixtures with well-graded grain size distribution, low permeability, and low plasticity index. Slope stability analysis was conducted using Bishop's simplified method of slices implemented through the KUslope 2.1 program. The calculated factor of safety, defined as the ratio of allowable stress to actual stress, exceeded 1.0, indicating that the slopes in Ban Pa Hung are currently stable with a low probability of landslide occurrence.

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