

SLOPE STABILITY PROBLEMS IN THE SITE OF HODOLISHT QUKES, AFFECTING THE MAIN NATIONAL ROAD LIBRAZHD PERRENJAS, ALBANIA

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The serious landslide phenomena, manifested southwestwards of Librazhd town affecting the safety and the functionality of the national road between Librazhd and Perrenjas, are studied. More especially, the geological and engineering geological conditions of the formations are analysed and the failures occurring in the area are recorded. Also, the application of a site investigation, helped in the study of the geotechnical characteristics of the formations. Regarding the morphology of the area under study with steep slopes and valleys prevail. The strong alpine tectonics, which is characterized by dense folding and over thrusts of the formations in combination with the neotectonic actions and the lithostromatographic conditions of the geological formations, formulate the intense relief. In order to overcome the economic and social consequences and insure the good functionality of the road, the immediate application of certain remedial measures is required. To this direction, the seriousness of the phenomena makes the application of measures a necessity, such measures should be applied as a whole, and otherwise they will fail, as those already taken in the area of the road. The proposed measures aim to drain the area, to retain some parts of the road, to form multiple benches and to plant dense plantations. It is believed that the above measures concerning stability conditions would greatly help towards the removal of the landslide manifestation causes, and therefore towards the protection and the good functionality of the road.