

عنوان مقاله:

Landslide zoning in Shirin-dare Dam Water Supply Pipeline , North Khorasan

محل انتشار:

چهاردهمین کنفرانس ملی هیدرولیک ایران (سال: 1394)

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نویسندگان:

Bizhan shirdel - *Department of Geology, Karaj branch, Islamic Azad University, Karaj, Iran*

Ali Sorbi - *Department of Geology, Karaj branch, Islamic Azad University, Karaj, Iran*

Ali Solgi - *Department of Geology, Science and Research branch, Islamic Azad University, Tehran, Iran*

خلاصه مقاله:

Landslide term is used for all mass movements on slopes, including falling, overturns and flow debris. Using the potential landslide hazard zonation, areas with high potential of landslide hazard can be detected and so prevent the landslide occurrence with providing appropriate solutions. In this study, the landslide hazard zonation along the water transmission lines of the Shirin-dare Dam Water Supply Pipeline has been done. Studied area is located at the western part of the Northern Khorasan (Bojnord). Study procedure is included of the general geology of the studied area, recognition the most important effective parameters on the landslide phenomena (such as slope, lithology, faults and streams) and also, mapping them as a layer on the basic maps. Then, each layer was validated based on the importance of the effective factors using the maps weighting method in ArcGis software. Finally, the studied area was zoned based on the landslide potential using the overlapping of the various layers. Final zonation map shows that the North, Northwestern and Median parts of the studied area have highest landslide potential. These areas are included of Marl and red Marl and to some extent loss deposits with slopes between 14 to more of 50 degrees. Seemingly, faults (due to low occurrence) and streams (due to drought) have lower effect on the landslide potential. However, the degree of the slope and type of lithology are the most important parameters on the landslide potential, respectively.

کلمات کلیدی:

Landslide, Zoning, Shirin-dare Dam Water Supply Pipeline, mass movements, Northern Khorasan

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