

عنوان مقاله:

Numerical analysis of the Road Embankment Improvement Using Different Techniques: A Case Study of the Y Intersection of Gonbad – Inche Borun

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خلاصه مقاله:

Soil modification is of importance in most cases of soil engineering, including road and airport construction, especially in poor soil conditions. Considering the various methods for the improvement of road construction, such as cement and lime and geogrid stabilization, the selection of a suitable soil modification method is of particular importance for a designer- engineer. In many cases, the soil that is not suitable for the subgrade in natural conditions is modified by mixing with river aggregates and compacting. In this study, to determine the effectiveness of each stabilization method, after finding the geotechnical parameters of the ground layers and the embankment of the study area, a number of static numerical analyzes by finite element method were carried out using the Plaxis V8.2 software. In these analyzes, soil layers with mixed design of the area are provided with different percentages of cement, lime and geogrid stabilization in dry and saturated soil to evaluate the most optimal and economical design. Finally, operational recommendations will be provided.

کلمات کلیدی:

Embankment, soil modification, cement, lime, Geogrid

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