عنوان مقاله:
Evaluation of the strength characteristics of clayey soils stabilized with rice husk ash and cement


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Mohammad Hossein Mobini - Department of Civil Engineering, University of Science and Culture, Tehran, Iran production is facing tremendous challenges such as depleting natural resources, increasing costs of energy supplies, and environmental concerns due to CO2 emission. Utilization of waste materials and industrial by-products in soil stabilization is a possible method of reducing the required cement quantity. Rice husk ash (RHA) is a highly reactive pozzolan generated from the burning of rice husk as an agriculture by-product of rice milling. This paper demonstrates the effect of using rice husk ash and cement on strength characteristics of clayey soils. In this regard, unconfined compressive strength and California bearing ratio tests were performed on combinations of the constituent materials. The results of study revealed significant improvement in soil strength after stabilization with cement and RHA.
.Addition of $10 \%$ rice husk ash is recommended as an optimum amount in soil stabilized with $3 \%$ cement
كلمات كليدى:
Soil Stabilization, Rice Husk Ash, Cement, Strength

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