World Academy of Science, Engineering and Technology
International Journal of Geotechnical and Geological Engineering
Vol:18, No:12, 2024

Evaluating the Permeability Coefficient of Sandy Soil for Grouting to Reinforce Soft Soil in Binh Duong, Vietnam

Authors : Trung Le Thanh

Abstract : Soil permeability coefficient is an important parameter that affects the effectiveness of mortar restoration work to reinforce soft soil. Currently, there are many methods to determine the permeability coefficient of ground through laboratory and field experiments. However, the value of the permeability coefficient is determined very differently depending on the geology in general and the sand base in particular. This article presents how to determine the permeability coefficient of sand foundation in Phu My Ward, Tan Uyen City, Binh Duong. The author analyzes and evaluates the advantages and disadvantages of assessment methods based on the data and results obtained, and on that basis recommends a suitable method for determining the permeability coefficient for sand foundations. The research results serve the evaluation of the effectiveness of grouting to reinforce soft ground in general, and grouting of bored piles in particular.

Keywords : permeability coefficient, soft soil, shaft grouting, post grouting, jet grouting
Conference Title : ICSMGE 2024 : International Conference on Soil Mechanics and Geotechnical Engineering
Conference Location : Bangkok, Thailand
Conference Dates : December 23-24, 2024

Open Science Index, Geotechnical and Geological Engineering Vol:18, No:12, 2024 publications.waset.org/abstracts/173939.pdf