

ABSTRACT

Grouting which is a popular ground improvement technique has proved effective in reduction in settlement and reduction in permeability of soils though it's not well known in most local engineering industry. This project presents assessment of effect of grouting on geotechnical properties on granular materials, these are: bearing capacity, shear strength, plastic index and permeability.

The main grouting material used was cement-water grout and with the help of documented case studies, this paper provides a discussion on effectiveness of weak foundation treatment by grouting specifically on bearing capacity. It also provides a conclusion on its effectiveness on granular materials.