

A Study on Micropiles in Foundation

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Abstract: *Micropiles are piles of smaller diameter used around footings capable of reducing settlement and improves the bearing capacity of soil. Studies were conducted on locally available clayey soil. Mild steel micropiles of length 10D, 20D and 30D and spacing of the micropiles were varied as 5D, 4D and 3D were D is the diameter of micropiles. Mild steel plate of dimension 150x150x10 mm were taken as the model square footing. Plate load test were carried out in a model tank of dimensions 800x800x500mm with and without micropiles and corresponding settlements were taken. It is studied that the settlement can be reduced considerably by increasing the length and reducing the spacing of micropiles*

Keywords: Micropiles, Plate Load Test

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