Abstract
This paper presents the analysis of static load tests that is carried out on axially loaded piles in Mumbai region of Maharashtra. The load settlement behavior for different diameter piles is plotted and ultimate pile capacity is estimated by using different empirical methods. The safe load is calculated by using the criteria given in IS-14593. The variation of ultimate load w. r. t. pile diameter for Mumbai region can be used to estimate the ultimate pile capacity of large diameter pile which cannot be tested up to failure. As a future scope, the study can be used to separate the end bearing capacity and shaft friction of the piles; also the relation between socket friction and pile diameter can be established.

References


Index Terms

Computer Science

Applied Sciences
Methodology for Analysis of Socketed Piles in Weathered Rock in Mumbai Region

Keywords
- Pile Load Test
- Load Settlement Curves
- Empirical Methods
- Ultimate Load
- Socketed Piles.