Abstract

In this research study, an attempt is made to help contractors estimate the cost of piling at the preliminary stage. This is done by making use of some samples of piling data available in different parts of Singapore for different building types.

All piling records are first gathered and sorted according to its soil formation. The author first established a common basis for comparing piling cost, and looked into the factors contributing to piling cost and subsequently use regression models for predicting piling cost.

Various regression models were attempted to find a relationship between total loading on the foundation and Metre Tonne of piling required.

Through suggested regression models, the Metre Tonne of piles required at a site to support a known total loading can be estimated. With the knowledge of the prevailing rate for unit cost of Metre Tonne, its total cost of piling can be estimated and used as competitive bid for the piling cost.