ABSTRACT

THE ANALYSIS OF PAD FOUNDATIONS WITH COLUMN COMBINATION IN RUBBER BOILING FACILITY BUILDING STRUCTURE IN PTPN VII IN BANDAR LAMPUNG

By

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Foot Plate Foundation is a foundation which supports a structure directly on a foundation soil when the soil layer is thick enough and has good quality to support any structure in the soil surface or a little below the soil surface. The objective of this research was to analyze capacity estimation of load bearing of a strong and safe foot plate foundation with column combination by considering results of soil analysis and this research result was expected to benefit as a reference for determining types of foundations to use for a construction and introduction to foundation use for public.

This analysis was started with collecting required data to evaluate analysis of load bearing of pad foundation and column foundation. Data were collected from project location of rubber boiling facility building construction in PTPN VII in Bandar Lampung.

The estimations results showed different foundation load bearing for each column. The biggest load bearing capacity of pad foundation was in column type 1 69.346 t/m² and the smallest load bearing capacity was in column type 2 46.078 t/m². The conclusion was that the wider the diameter of foot plate foundation, then the bigger the load bearing capacity that could be supported by column foundation. The longer or deeper the foot plate foundation, then the bigger the load bearer capacity that could be supported by the column foundation.

Keywords: Foot Plate Foundation, load bearing capacity of foundation.