ABSTRACT

THE ANALYSIS OF WELLS FOUNDATION BEARING CAPACITY ON THE CONSTRUCTION PROJECT OF BOEMI KEDATON MALL

Written by YULI TRIANINGSIH

The objective of this analysis is to determine the ratio between the two methods of bearing capacity calculation. Methods used in this analysis are Aoki and De Alencar method and Meyerhorf method.

This analysis collected data from the consultant, PT. INDECO PRIMA, such as sondir data outcome, laboratory test result of soil examination, and image structure. While, the variables used are taken from the books of civil engineering.

The results of the analysis indicate that the bearing capacity calculation of the foundation by using Aoki and De Alencar method is greater than the calculation using Meyerhorf method. The larger diameter are used, the greater difference in the calculation of the bearing capacity of each method. For the largest percentage of the 6.15% contained at 160 cm diameter which is the largest diameter in the calculation. This because of the Aoki and De Alencar methods use the sondir data parameters while the Meyerhorf methods use SPT data parameters.

Keywords: Aoki and De Alencar method, Meyerhorf method, foundation bearing capacity.