

Pengaruh Variasi Jarak Kolom Kapur dalam Stabilisasi Tanah Lempung Lunak pada Tinjauan Nilai Indek Pemampatan Tanah (Cc)

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Abstract	Numerous buildings located in north area of Java Island encounter settlement problem. The settlement occurs because, most of soil in the area is soft clay soil. The behavior of this soil is characterized by the large value of coefficient compression (Cc) and small value of bearing capacity. This condition causes potentially great consolidation settlement. In this research, limes column stabilization method will be applied to make soft clay soil better. Limes columns were expected to reduce Cc value therefore consolidation settlement decreases. This research was conducted through laboratory experiment, using box 100 cm in lengths, 40 cm in wide, and 40 cm in height. Three variations of diameters (5 cm, 10 cm, 15 cm) and three variations of distance of sample taken from outside of the limes column mould (10 cm, 20 cm, 30 cm) was applied in this research. Influence of limes column to the value of Cc was examined. The result of this research shows that limes column could significantly reduce Cc value. The Cc value decreases when the distance of sample taking place decreases. The average of Cc decline on three variations distance of column (10 cm, 20 cm, 30 cm) are 17.28%, 44.97%, 52.24% respectively. The most efficient distance of the limes column is 20 cm.
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