ABSTRACT

INFLUENCE OF CURING TIME SOFT SOIL STABILITY USE BAGGASE ASH

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soil has an important role because all of structures located above it. soil has different specifications, so that the characteristics of each type of soil greatly effect the the strenght of soil bearing capacity. The increase of the soil bearing capacity of this soil will be seen how much the value of CBR (California Bearing Ratio) that will be studied with variety of curing time on that soil itself. to overcome this problem, the alternative treatment is to required stabilization with additives and baggase ash is an alternative additive used to this research.

Soil samples that tested in this research is the soft soil are derived from Rawa Sragi, Belimbing Sari village, district Jabung, East Lampung. This study used soil mixed with ash content about 15% with the optimum variation of curing time used is 7 days, 14 days and 28 days. Based on the examination of the physical properties of original soil, AASHTO classify soil samples in group A-7 (clay soil) and subgroup A-7-5, while the USCS soil samples classify as fine-grained soil and belonging to CH group.

The results of laboratory research indicate that the stabilization material using baggase ash has increased the value of specific gravity, plastic limit and the soil bearing capacity. Based on CBR soaked and unsoaked test, that shown about variation above 7 days of curing time can be used as a building construction due to the CBR value greater than 6%.

Keywords: bagasse ash, stabilization, soft soil, CBR