

## **ABSTRACT**

### **EFFECT OF ADDITION SAND ON LEVEL OF DENSITY AND SOFTCLAY BEARING**

**By**

**Christian Prasenda**

The problem of strength and bearing capacity of soil is one of things that really need to be considered in the planning and construction work of a civilian building. This is because the land in question serves as a medium that holds the load or the action of a construction that is built on it. Stabilization using sand material is one way to meet the needs of the required strength. Changes in weather and temperature in the field are factors that make the ground unstable.

The type of soil is soft clay stabilized from the Rawa Sragi village, Jabung District, East Lampung District. This research was conducted by using a mixture of soil with variations in mixture of 5%, 10% and 15%. After CBR testing, Atterberg Limits and Specific Gravity for each sample.

The more variations of a mixture of sand were added resulting in declining water levels that would make the value of the soil carrying capacity increase, the value of density and plastic limit increased, while the value of the liquid limit and plasticity index decrease.

Keywords: sand, soft clay, bearing