

## ABSTRACT

### THE STUDY OF BRICK COMPRESSIVE STRENGTH USING ADDITIVE MATERIALS (RICE HUSK ASH, BAGGASE ASH AND FLY ASH) BASED ON INDONESIAN NATIONAL STANDARD SPESIFICATION

Oleh :

ABDURROHMANSYAH

Brick is one of construction materials of building, shopping complex, real estate etc. Brick is made from the mixing of soil and water. In this study, the process of brick production will be tired by mix the soil with additive materials such as rice husk ash, baggase ash and fly ash. It's to know how big the advantage of those additive materials and to compare the compressive strength between conventional brick and the brick that have mixed with rice husk ash, baggase ash and fly ash to get Indonesian National Standard for the strong and durable brick.

Clay was used as the soil sample in this study. The clay is from Yoso Mulyo Village, Metro. The additive materials such as, rice husk ash is from Yoso Mulyo Village Metro, baggase ash is from PT Indo Lampung Perkasa and the fly ash is from PLTU Tarahan.

The result of this study show that the production of brick after burned using additive materials such as rice husk ash, baggase ash and fly ash, increase the compressive strength value. So, the strength of the brick is good enough fulfilled the standard of Indonesian National Standard Institution.

Keywords : Brick, additive fly ash and rice husk ash, baggase ash, compressive strength