

CHAPTER VI

CONCLUSION AND RECOMMENDATION

VI. 1. Conclusion

Based on the experiments and data analysis from previous chapter, research found several conclusion as follows:

- all samples with 4%, 6%, or 8% of lime content have increasing cohesion value (c) along the time curing periods. In the other hands samples that mixed with 6% Lime and 10% Fly-ash; 6% Lime and 15% Fly-ash; 6% Lime and 20% Fly-ash shows that the cohesion value is decreasing along the time curing periods.
- Soil samples that mixed with lime only additive have decreasing friction angle value (ϕ) along curing periods but, all samples that added with lime and fly-ash show the increasing value of friction angle along the time curing.
- The result of direct shear test shows not only sample with lime but also sample with lime and fly-ash sample indicates the improvement of shear strength (τ). The shear strength of clay which is added by lime mixed with fly ash is provides better result than lime only additive. Result of direct shear concludes that clay with 6% Lime and 20% Fly-ash content provides optimum value of shear strength (τ) which is reaching 0,629 kg/cm².

VI.2. Recommendation

Based on experiments on the laboratory, several suggestions made for the next researchers are:

1. Experiments done using disturbed soil samples that taken from the field, because the difficulty in obtaining undisturbed soil sample in the field. For next research it is suggested to do experiments with undisturbed soil samples.
2. In the experiments, the curing times were 14 day. For next research it is suggested to conduct longer curing period.

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