PLANNING FOR IMPROVEMENT OF SOFT SOIL
USE MINIPILE & GEOTEXTILE FOR
CONSTRUCTION OF LOMBOK AIRPORT
ACCESS ROAD

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Abstract
Currently West Local Government is implementing a program to build Lombok International airport access road. One of the stages of construction of access roads on road-Penujak Kuripan. However, in areas Kuripan, construction of access roads is encountering many obstacles on the ground basically. Subgrade conditions are poor form with the consistency of soft clay to moderate is what causes road construction cannot be implemented with ease. There is a need for improvement of basic soil capable of supporting the burden of road construction and possible damage to the road until the age of the plan.

Requiring airport access road embankment to reach the desired level. With the heap must also be controlled for the stability of the soil embankment to avoid catastrophic landslide. With the safety factor (SF) are not yet qualified is equal to 1.332 and the compression which occurs by 63 cm, the pile would need strengthening to achieve security numbers by 1.50.
Retrofitting will use cerucuk or Geotextile layer. After the subgrade strengthening the construction of a pavement construction done. Of the two types of alternative reinforcement would be compared to that which one is better, easier and practical in implementation.

The results of this final plan is; thick covering pavement thickness of 18 cm surface layer, base layer top (base) by 20 cm, base layer (subbase) by 20 cm. To improve the soil with wood used cerucuk strong class III with a diameter of 10 cm, length 200 cm obtained cerucuk amount per meter length of 3 pieces with a distance of 30 cm. Differences compression that occurred after the installation cerucuk by 10 cm. To improve the soil with Geotextile, UW-250 type is used which consists of 1 layer with a distance of 50 cm and the length of Geotextile required to repair the subgrade of 990 cm.

**Keyword:** Soft soil, Access road of Lombok airport, Thickness of pavement, Minipile, Geotextile.