

ABSTRACT

Palembang is a city in Indonesia that is on growing economic. This Effect on the growth infrastructure in Palembang, such as the infrastructure Road, housing, hospitality and retail. Palembang-Indralaya toll road that was first built in the area of South Sumatra, which will be a good business strategy for connectivity between Palembang-Indralaya area. The general objective of this research is to find a comparison of the stability of the slopes and diminish the That happens in all variations of the heap, at the time of construction and construction. The Replacement as parameters of the effect on the stack.

Use the element calculation method until the analysis is done using the programe Plaxis 8.2. A variation a height of 2 m, 4 m and 6. Also used a variation of the conditions of the modelling in the time period of the construction and soil types of post construction with the original conditions of soil and soil Replacement. In order strengthen the geotextile, it will be input In the variation of the heap that is a geotextile woven HRX-300 Production per PT. terasa geosinindo.

The results of the analysis of the stability factor with the program Plaxis obtained a certain numerical value that is on the cover of 2 m from the ground for geotextile reinforcement purposes 1.7412 and with geotextile 1.3146. 4m on the ground For geotextile reinforcement purposes 1.5977 and with geotextile 1.3598. On the front page of the 6m on the ground for geotextile reinforcement purposes 1.5193 and with geotextile 1.3578. The results of the analysis of hillsides stability with the recovered Plaxis programe declined in 200 days on the roof of 2 m original Replacement floor with geotextile-0.176 m. Lot 4 m the original with geotextile-0.105 m. Lot 6 m Floor conditions with geotextile-0.07 m.

Keywords: *Heap on the road, safety factor, replacmenet, geotextile, the Plaxis 8.2*