ECONOMIC ANALYSIS OF FLEXIBLE PAVEMENT CONSTRUCTION AND PAVEMENT CONSTRUCTION USING SLAB PILE OF THE ROAD TRIPE BABAT-BOJONEGORO

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Abstract

Tripe road Babat-Bojonegoro is still currently under repair. Traffic conditions on these roads before the repair is not beneficial for the users of the road. This is because the physical condition of the road Tripe Babat-Bojonegoro damaged. For that the Government feel the need to conduct road repairs. Because the government wants the road link between the regions of Babat with regional Tripe Bojonegoro can run normally. Total length of this road improvement project is 6.3 km.

In this final project, author compares the flexible pavement construction and pavement construction using slab pile in terms of economic analysis. Studies discussed include: Calculates flexible pavement thickness, estimate the amount of costs incurred for flexible pavement design and pavement design using the slab pile, counting the cost of periodic maintenance and routine (for flexible pavement), calculates periodical maintenance (for the pavement slab pile), calculate the total cost of flexible pavement construction and pavement slab pile, counting BOK to existing conditions, flexible pavement and pavement slab pile using N.D Lea method, and analyze the economic feasibility of the B/C Ratio calculation.
Based on calculations of economic analysis found two conclusions. If calculated by the calculation of each B/C ratio is obtained pavement slab pile of the most profitable. However, if calculated by using the user's way of comparing the differences of the difference in cost with total cost of each alternative, then gained the most economical pavement lenturlah. This is because the total volume of vehicles that are too small to affect the value of user cost.

Keyword: Flexible pavement, Pavement using slab pile, Economic analysis, Babat - Bojonegoro