ABSTRACT

HANDLING NEEDS ANALYSIS OF PRINGSEWU DISTRICT ROAD NETWORK BASED ON LEVEL OF SERVICE

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As a new autonomous region, Pringsewu potentially develop rapidly. It will have an impact on the increasing movement of people and goods. At certain points will decrease the level of service that is technically characterized by an increased value of VC Ratio. In terms of non-technical, level of service can also be viewed from the standpoint of the public as users of the road.

This study aims to identify patterns of movement in Pringsewu District and analyzing the handling needs of the road network in the Pringsewu District in 2014, 2019, 2024 and 2039 based on VC ratio through 4 stages of transportation modeling using tranplan software. To support this analysis, also conducted research about level of service in Pringsewu District based on public perception as road users. The primary data in this study was obtained through a survey of LHR and road user perception survey conducted through questionnaires. Secondary data for modeling requirements obtained through relevant institutions.

The result of analysis is a pattern of movement in 2014, 2019, 2024 and 2039 is almost the same, only the quantity increases from year to year. Subdistrict of Pringsewu, Sukoharjo and Gadingrejo be the movement center. The VC ratio of road sections in Pringsewu District in 2014 was dominated by VC ratio < 0.6. For 2024 year, road handling by building the North Ring Road considered to necessary because traffic flow increased significant and VC Ratio of some streets ≥ 0.9. Road handling in 2039 by increased capacity through widening of the road. Based on the user's perception, level of road service in Pringsewu District is good enough. Level of road sservice in the Pringsewu District highly influenced by accessibility, mobility, safety and road conditions.

Keywords: Level of Service, Transportation Modeling, Road Handling