ABSTRACT

The difficulty to handle sections of National roads in Manokwari Regency by temporary working unit for West Papua Road Maintenance is the imbalance between the available fund and the road damage level. Based on that condition, this research determines the priority of handling roads based on the level of criteria importance by using scoring and scaling method to the criteria which affect the decision-making. The method used to determine priority scale is AHP (Analytical Hierarchy Process). Some criteria which determine the priority scales in handling road sections in this research are road condition, level of service and road damage, daily traffic, government policy, budget capacity and economic benefit.

From the existing condition, the existing priority decision can be conducted only based on the result of data base review to all roads from the result of field survey and public demand before being proposed to become priority sequence of handling roads. From the result of the analysis, using AHP multi criteria method shows that priority of national road maintenance in Manokwari Regency is highly influenced by road condition, government policy, level of road service and damage, daily traffic, economic benefit and budget capacity. This method can be used since in defending the budget allocation argument for national road maintenance in limited Manokwari Regency, a method which is able to show objective and national results are needed to suit with the indicator, target and purpose of the national road maintenance in Manokwari Regency.

From the results of this research analysis, priority sequences obtained which are based on the used criteria are road condition, government policy, economic benefit and scale of budget capacity. While determining level scale on road handling priority, the following roads namely Manokwari-Rendani, Ransiki-Mameh, Prafi-Kebar, Maruni-Oransbari, Oransbari-Ransiki and Maruni-Prafi are the main priority of road sections in handling them.

Keywords: Road handling priority, national roads, Manokwari Regency, AHP method.
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