ROAD DAMAGE ANALYSIS USING BINA MARGA AND SDI (SURFACE
DISTRESS INDEX) METHODS

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## *ABSTRACT*

*Road is one of the means of land transportation that has an important role in human life, especially for economic and socio-cultural growth to support national development. To facilitate community mobility so as to provide good service in accordance with the required capacity, if there is road damage, it will hinder community activities, causing accidents. The purpose of this study is to determine the types of damage and the value of the pavement index of the Sudirman General road, so as to determine the condition value of the Sudirman General road section based on two predetermined methods. The methods used are Bina Marga method and SDI (Surface Distress Index) method. The types of damage found on the 2 km Jendral Sudirman road include potholes, grain release, crocodile skin cracks, and patches. In the Bina Marga method, a priority order value of 5 is obtained, which means that the road is in periodic maintenance. In the SDI method, the road condition value is 25, meaning that the road is in good condition. After calculating the results of the research on the condition of the Jendral Sudirman road section with the two methods, it turns out to get almost the same results and values, namely the condition of the road section is still in good condition but requires maintenance so as not to worsen the condition of the road.*

**Keywords**: *Road damage analysis, Bina Marga method, SDI method, General Sudirman Street Bengkalis Regency*.