

## **ABSTRAK**

### **ANALISIS KINERJA SIMPANG TAK BERSINYAL DI JALAN AMIR HAMZAH PADA *PEAK HOUR***

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Penelitian ini bertujuan untuk menganalisis kinerja simpang tak bersinyal Jalan Amir Hamzah 1 – Jalan Amir Hamzah 2 Kota Bandar Lampung berdasarkan Pedoman Kapasitas Jalan Indonesia 2023 . Analisis dilakukan menggunakan data hasil survei volume lalu lintas, kondisi geometrik, dan hambatan samping pada jam puncak untuk menentukan kapasitas simpang, derajat kejenuhan (Dj), tundaan, dan tingkat pelayanan. Hasil penelitian menunjukkan volume lalu lintas tertinggi sebesar 986 smp/jam dengan kapasitas 2347,87 smp/jam dan nilai Dj sebesar 0,42 yang menandakan kondisi belum jenuh. Nilai tundaan rata-rata simpang sebesar 9,43 detik/kendaraan yang termasuk dalam Tingkat Pelayanan (Level of Service/LOS) B berdasarkan Peraturan Menteri Perhubungan Nomor 96 Tahun 2015 . Dengan demikian, kinerja simpang tetap berada dalam kondisi baik, stabil, dan layak dioperasikan tanpa memerlukan peningkatan kapasitas dalam waktu dekat.

Kata kunci: simpang tak bersinyal, derajat kejenuhan, tundaan, tingkat pelayanan, PKJI 2023.

## ABSTRACT

### PERFORMANCE ANALYSIS OF UNSIGNALIZED INTERSECTIONS ON AMIR HAMZAH ROAD DURING PEAK HOURS

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*This study aims to analyze the performance of the unsignalized intersection of Jalan Amir Hamzah 1 and Jalan Amir Hamzah 2 in Bandar Lampung City based on the 2023 Indonesian Road Capacity Guidelines. The analysis was conducted using data from traffic volume surveys, geometric conditions, and side obstacles during peak hours to determine intersection capacity, degree of saturation (Dj), delay, and level of service. The results of the study show that the highest traffic volume is 986 vehicles per hour with a capacity of 2347.87 vehicles per hour and a Dj value of 0.42, which indicates that the condition is not yet saturated. The average delay at the intersection was 9.43 seconds/vehicle, which falls under Level of Service (LOS) B based on Ministry of Transportation Regulation No. 96 of 2015. Thus, the intersection's performance remains in good, stable, and operational condition without requiring capacity improvements in the near future.*

*Keywords: unsignaled intersections, degree of saturation, delay, level of service, PKJI 2023.*