ABSTRAK

Kawasan Pasar Sapan di Kota Sawahlunto merupakan pusat kegiatan perdagangan yang memiliki permasalahan lalu lintas berupa parkir di badan jalan, tingginya hambatan samping, dan belum memadainya fasilitas pejalan kaki. Penelitian ini bertujuan menganalisis kinerja ruas jalan, kinerja simpang, kondisi parkir, dan fasilitas pejalan kaki, membandingkan kondisi eksisting dengan usulan penataan lalu lintas, serta memberikan alternatif penanganan.

Penelitian menggunakan metode survei lapangan dan analisis berdasarkan Pedoman Kapasitas Jalan Indonesia (PKJI) 2023. Hasil penelitian menunjukkan bahwa Jalan Soekarno-Hatta 4 dan 5 memiliki V/C Ratio sebesar 0,72 dan 0,73 (LOS C), sedangkan simpang memiliki derajat kejenuhan 0,34 dengan LOS B. Usulan penataan berupa penataan parkir, penyediaan zebra cross, serta pemasangan rambu dan marka lalu lintas meningkatkan kapasitas jalan menjadi 1927.36 smp/jam dan menurunkan V/C Ratio menjadi 0,41 dan 0,42. Usulan tersebut diharapkan mampu meningkatkan kelancaran, keselamatan, dan kenyamanan lalu lintas di Kawasan Pasar Sapan.

Kata kunci**:** Manajemen lalu lintas, kinerja ruas jalan, parkir, pejalan kaki, Pasar Sapan.

Abstract

The Sapan Market area in Sawahlunto City experiences traffic problems caused by on-street parking, high roadside friction, and inadequate pedestrian facilities. This study aims to analyze the performance of road segments, intersections, parking conditions, and pedestrian facilities, compare the existing and proposed traffic conditions, and develop appropriate traffic management strategies.

The study employed field surveys and analysis based on the Indonesian Road Capacity Guidelines (PKJI) 2023. The results show that Soekarno-Hatta Road Sections 4 and 5 have V/C Ratios of 0.72 and 0.73 (LOS C), while the intersection operates at a degree of saturation of 0.34 with LOS B. The proposed traffic management, including parking reorganization, zebra crossings, and the installation of traffic signs and pavement markings, increases road capacity to 1927.36 pcu/hour and reduces the V/C Ratios to 0.41 and 0.42. These improvements are expected to enhance traffic flow, safety, and comfort within the Sapan Market area.

Keywords: Traffic management, road performance, parking, pedestrian facilities, Sapan Market.