

ABSTRAK

Jalan merupakan prasarana transportasi darat yang berperan penting dalam menunjang mobilitas masyarakat serta pertumbuhan ekonomi, sosial, dan lingkungan. Ruas Jalan Yogyakarta - Demakijo STA 2+800 – STA 3+000 SLEMAN merupakan salah satu jalan kota yang strategis, karena menghubungkan wilayah-wilayah penting dan menjadi jalur utama bagi pergerakan penduduk serta distribusi barang. Aktivitas perdagangan yang tinggi di sepanjang jalan ini, termasuk banyaknya toko dan rumah makan, menyebabkan seringnya kendaraan berhenti dan parkir melebihi bahu jalan. Selain itu, tingginya volume kendaraan serta ketidakteraturan lalu lintas mengakibatkan penumpukan kendaraan dan kemacetan. Penelitian ini bertujuan untuk menganalisis kinerja ruas jalan sebagai dasar perencanaan dan pengembangan infrastruktur.

Penelitian ini menggunakan metode survei langsung untuk mengumpulkan data primer berupa geometri jalan, volume lalu lintas dan hambatan samping. Selain itu, dilakukan pengumpulan data sekunder yaitu tata guna lahan dan jumlah penduduk. Analisis dilakukan berdasarkan pedoman dan persamaan dalam Pedoman Kinerja Jalan Indonesia (PKJI) 2023.

Hasil analisis kinerja jalan berdasarkan Pedoman Kinerja Jalan Indonesia (PKJI) 2023 menunjukkan derajat kejenuhan sebesar 0,98, tingkat pelayanan E, dan kecepatan tempuh 26 km/jam, yang menandakan tingkat kinerja jalan rendah. Solusi yang diusulkan meliputi penertiban parkir agar tidak melebihi bahu jalan dan pelebaran badan jalan sebesar 0,5 meter di setiap sisi jalan. Jika penerapan Solusi dilakukan akan berdampak pada derajat kejenuhan menurun menjadi 0,89 dan kenaikan kecepatan tempuh menjadi 31 km/ jam yang akan berdampak pada perbaikan kinerja jalan dan potensi pengurangan kemacetan, sehingga mendukung mobilitas yang lebih aman dan efisien.

Kata kunci : Kinerja arus, PKJI 2023, Derajat Kejenuhan, Kecepatan Tempuh

ABSTRACT

Roads are land transportation infrastructure that plays an important role in supporting community mobility as well as economic, social and environmental growth. Yogyakarta - Demakijo Road Section STA 2+800 – STA 3+000 SLEMAN is one of the strategic city roads, because it connects important areas and becomes the main route for population movement and distribution of goods. High trading activities along this road, including many shops and restaurants, lead to frequent vehicle stops and parking beyond the road shoulder. In addition, the high volume of vehicles and traffic irregularities result in vehicle accumulation and congestion. This study aims to analyze the performance of road sections as a basis for infrastructure planning and development.

This study used a direct survey method to collect primary data in the form of road geometry, traffic volume and side barriers. In addition, secondary data were collected, namely land use and population. The analysis was conducted based on the guidelines and equations in the Indonesian Road Performance Guidelines (PKJI) 2023.

The results of the road performance analysis based on the 2023 Indonesian Road Performance Guidelines (PKJI) show a degree of saturation of 0.98, level of service E, and travel speed of 26 km/h, which indicates a low level of road performance. The proposed solutions include controlling parking so that it does not exceed the road shoulder and widening the road body by 0.5 meters. If the implementation of the solution is carried out, it will have an impact on the degree of saturation decreasing to 0.89 and an increase in travel speed to 31 km / h which will have an impact on improving road performance and potential congestion reduction, thus supporting safer and more efficient mobility.

Keywords: *Flow performance, PKJI 2023, Degree of Saturation, Travel Speed*