

Abstrak

Kecelakaan lalu lintas di Kota Padang, khususnya pada ruas Jalan By Pass KM 7, menjadi persoalan serius akibat tingginya volume kendaraan, kecepatan yang relatif tinggi, serta minimnya fasilitas perlengkapan jalan. Penelitian ini bertujuan menganalisis eksisting perlengkapan jalan pada ruas By Pass KM 7, mengevaluasi kesesuaiannya dengan standar jalan berkeselamatan, serta menyusun rekomendasi peningkatan keselamatan lalu lintas beserta estimasi biaya. Metode penelitian dilakukan melalui observasi lapangan, survei inventarisasi fasilitas jalan, pengumpulan data primer dan sekunder, serta analisis perbandingan terhadap standar teknis yang berlaku. Hasil penelitian menunjukkan bahwa kondisi perlengkapan jalan belum optimal, dengan banyak marka jalan yang pudar, rambu lalu lintas yang belum memadai, dan kurangnya alat pengendali kecepatan. Rekomendasi peningkatan meliputi penambahan 10 rambu peringatan, 13 rambu petunjuk, 8 rambu larangan, 4 rambu perintah, 4 rambu tiang lengan F, 1 rambu pendahulu petunjuk jurusan, pita penggaduh sepanjang 64 meter, serta peremajaan marka jalan sepanjang 6.890 meter. Estimasi biaya yang diperlukan mencapai Rp 2.481.582.600. Penelitian ini menegaskan pentingnya pemenuhan standar perlengkapan jalan sebagai langkah menekan angka kecelakaan dan mewujudkan sistem transportasi aman dan berkelanjutan di Kota Padang.

Kata Kunci: *Keselamatan Lalu Lintas, Perlengkapan Jalan, Marka Jalan, Rambu Lalu Lintas, By Pass Padang.*

Abstract

Traffic accidents in Padang City, particularly on the KM 7 By Pass road section, have become a serious problem due to high vehicle volume, relatively high speeds, and a lack of road facilities. This research intends to investigate existing condition facilities on the By Pass KM 7 section, evaluate their compliance with road safety standards, and develop recommendations for improving traffic safety along with cost estimates. The research method was conducted through field observations, road facility inventory surveys, primary and secondary data collection, and comparative analysis with applicable technical standards. Based on the findings, it is evident that the condition road facilities is not yet optimal, with many faded road markings, inadequate traffic signs, and a lack of speed control devices. Recommendations for improvement include the addition of 10 warning signs, 13 directional signs, 8 prohibition signs, 4 command signs, 4 F-arm signs, 1 directional advance warning sign, 64 meters of rumble strips, and the renewal of 6,890 meters of road markings. The estimated cost is Rp 2,481,582,600. This study importance of meeting road equipment standards as a strategic step in reducing traffic accidents transportation in Padang City.

Keywords: *Traffic Safety, Road Equipment, Road Markings, Traffic Signs, Padang By Pass*