

ABSTRAK

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Program Studi : Teknik Sipil
Judul : Analisis Kondisi Kerataan Jalan Menggunakan Metode RCI Di Jalan Batujajar Kabupaten Bandung Barat
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Tingkat kerataan jalan (*International Roughness Index, IRI*) dan Indeks kondisi jalan (*Road Condition Index, RCI*) merupakan parameter-parameter yang sering digunakan untuk menentukan tingkat kondisi pelayanan suatu ruas jalan. Tingkat kondisi pelayanan tersebut sangat berpengaruh terhadap kenyamanan dan keamanan pengemudi. Dalam studi ini telah dilakukan analisis kondisi jalan terhadap tingkat kerataan jalan berdasarkan korelasi indeks kondisi jalan, dimana besaran indeks kondisi jalan diperoleh dari hasil pengamatan langsung di lapangan oleh 3 orang penilai. Analisis ini dilakukan dengan menggunakan peraturan Menteri Pekerjaan Umum dan Perumahan Rakyat Nomor 33/PRT/M/2016. Dari hasil analisis kondisi jalan Batujajar Kabupaten Bandung pada STA 0+000 – 2+200 diperoleh nilai tingkat kerataan jalan rata-rata sebesar 8,73 berdasarkan nilai tersebut maka nilai tingkat kerataan jalan tersebut termasuk pada kategori kondisi rusak ringan maka diperlukan penanganan berupa peningkatan jalan dan Biaya peningkatan jalan sepanjang ruas jalan Batujajar sebesar Rp 1.510.000.000 (Satu Milyar Lima Ratus Sepuluh Juta).

Kata kunci: IRI, RCI, pemeliharaan jalan.

ABSTRACT

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Title : Analysis of the Road Roughness Conditions Using the RCI Method at Batujajar Street, West Bandung Regency
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International Roughness Index (IRI) and road condition index (RCI) are parameters that are often used to determine the level of service conditions of a road section. The level of service conditions is very influential on the comfort and safety of the driver. In this study, road condition analysis has been carried out on the level of road flatness based on the correlation of the road condition index, where the magnitude of the road condition index is obtained from direct observations in the field by 3 assessors. This analysis was carried out using Minister of Public Works and Public Housing Regulation No. 33 / PRT / M / 2016. From the results of the analysis of the condition of the Batujajar road in Bandung Regency on STA 0 + 000 - 2 + 200 obtained the value of the level of the average road level of 8.73 based on these values, the value of the level of the road flatness is included in the category of mildly damaged conditions so that handling is needed in the form of road improvement and Costs to increase along the Batujajar road section in the amount of Rp. 1.510.000.000 (One Billion Five Hundred Ten Million)

Keywords: IRI, RCI, road maintenance.