

## ABSTRAK

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Jalan merupakan prasarana transportasi darat yang berfungsi sebagai penghubung satu ke tempat yang lain. Jalan memiliki tiga fungsi dasar perkerasan meliputi kenyamanan, keamanan dan efisiensi pelayanan. Penelitian bertujuan untuk menganalisis fungsi pelayanan jalan dan menganalisis kerataan jalan di ruas Jalan Cipeundeuy – Rajamandala di Bandung Barat. Analisis data menggunakan metode Present Serviceability Index, Road Condition Index, International Roughness Index dan analisis Overlay metode Bina Marga 2005. Lokasi penelitian dilakukan sepanjang 1,8 km pada KM 59+800-61+600. Data Kerusakan jalan diperoleh dengan survei lapangan sedangkan data lendutan balik Benkelman Beam (BB) diperoleh dari Dinas Bina Marga dan Penataan Ruang Provinsi Jawa Barat, sedangkan data dari Overlay Hasil studi menunjukkan bahwa fungsi pelayanan jalan diperoleh nilai PSI jalan per 100 m diperoleh 1,7 dengan kategori fungsi pelayanan jalan “kurang”, nilai RCI Jalan Cipeundeuy-Rajamandala bernilai 2,6 dengan kategori Jelek, kadang-kadang ada lubang dan permukaan tidak rata, nilai IRI bernilai 13,83 dalam kondisi “Rusak Berat” dan dibutuhkan tebal Overlay 9cm.

**Kata kunci:** Present Serviceability Index, Road Condition Index, Overlay

## ABSTRACT

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*Road is a land transportation infrastructure that functions as a link to one place to another. The road has three basic functions of pavement including comfort, safety and service efficiency. The research aims to analyze the function of road services and analyze road flatness on the Cipeundeuy - Rajamandala road in West Bandung. Data analysis using the Present Serviceability Index method, Road Condition Index, International Roughness Index and Overlay analysis of the 2005 Bina Marga method. The location of the study was 1.8 km on KM 59 + 800-61 + 600. Road Damage Data was obtained by field survey while Benkelman Beam (BB) deflection data was obtained from the Office of Highways and Spatial Planning of West Java Province, while data from Overlay Study results showed that the function of road services obtained by the PSI value of roads per 100 m was obtained by 1,7 with the category of road service functions "lacking", the RCI value of Cipeundeuy-Rajamandala Road is 2.8 with the Ugly category, sometimes there are holes and uneven surfaces, IRI value is 13.83 under "Heavy Damaged" conditions and thick Overlay required 9cm.*

**Keywords:** Present Serviceability Index, Road Condition Index, Overlay