

ABSTRAK

Judul: Analisis Kinerja Bus Transjakarta Koridor II-B (Harapan Indah–ASMI) Akibat Pembangunan Jalan Layang Tol Dalam Kota Jakarta , Nama: Fernanda Gilsa Rahmatunnisa , NIM: 41117120083 , Dosen Pembimbing: Zainal Arifin Ir., MT. , 2019

Seiring dengan meningkatnya kebutuhan transportasi, pemerintah saat ini tengah menggalakkan pembangunan infrastruktur layang (*elevated*) di kawasan perkotaan seperti Jakarta yang lahan kosongnya semakin berkurang, salah satunya Jalan Layang Tol Dalam Kota Ruas Kelapa Gading – Pulo Gebang. Selama proses konstruksi berlangsung, terjadi kemacetan disepanjang jalan area konstruksi, sehingga transportasi umum seperti Bus Transjakarta juga terkena dampak dari pembangunan salah satunya Koridor II-B Rute dari ASMI (Pulomas) menuju Kota Harapan Indah. Hal ini mengakibatkan waktu tempuh antar halte menjadi lebih lama. Oleh karena itu, perlu dilakukan analisis untuk mengetahui kondisi kinerja armada Bus Transjakarta Koridor II-B. Penelitian ini bertujuan untuk menganalisa kinerja operasional Bus Transjakarta Koridor II-B. Selain itu, juga bertujuan untuk menganalisa kinerja ruas yang ditinjau dan memberikan alternatif solusi yang dapat diterapkan. Metode penelitian dilakukan dengan pengumpulan data lapangan baik *survei on bus* untuk data kinerja operasional bus yang kemudian dianalisa sesuai standar Ditjen Perhubungan, maupun melalui survei langsung ke lapangan untuk mengetahui kinerja ruas jalan yang kemudian dianalisa sesuai dengan MKJI 1997. Dari hasil analisa disimpulkan bahwa kinerja operasional bus masih dalam kategori baik. Namun, tingkat pelayanan jalan termasuk dalam tingkat F dimana kondisi jalan macet, antrian panjang (volume kendaraan melebihi kapasitas, aliran lalu-lintas telah mengalami kemacetan). Sementara itu, alternatif solusi yang dapat diterapkan seperti mengalihkan arus lalu-lintas ke ruas jalan yang lain, membatasi kendaraan berat yang lewat, penerapan sistem ganjil-genap, dan melakukan pelebaran jalan disepanjang ruas yang terkena dampak pembangunan jalan layang.

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Kata kunci: Kinerja Operasional Bus Transjakarta, *Travel Time*, *Load Factor*, *Headway*, Tingkat Pelayanan Jalan (*Level of Service*), Volume Lalu lintas, Kecepatan Kendaraan, Hambatan Samping, Akibat Pembangunan Infrastruktur

ABSTRACT

Title: Analysis Performance of Transjakarta Bus Corridor II-B (Harapan Indah – ASMI) Due to the Construction of Toll Roads in the City of Jakarta, Name: Fernanda Gilsa Rahmatunnisa, NIM: 41117120083, Advisor: Zainal Arifin Ir., MT. , 2019

Along with the increasing transportation needs, the government is currently promoting the construction of elevated infrastructure in urban areas such as Jakarta whose vacant land is decreasing, one of which is Jalan Layang Tol in the City of Kelapa Gading - Pulo Gebang. During the construction process, congestion occurred along the construction area road, so public transportation such as the Transjakarta Bus was also affected by the construction of one of the Route II-B Corridors from ASMI (Pulomas) to Kota Harapan Indah. This resulted in longer travel times between stops. Therefore, an analysis is needed to determine the performance condition of the Transjakarta Bus Corridor II-B fleet. This study aims to analyze the performance of Transjakarta Corridor II-B Bus operations. In addition, it also aims to analyze the performance of segments that are reviewed and provide alternative solutions that can be applied. The research method is done by collecting field data both on bus surveys for bus operational performance data which are then analyzed according to the standards of the Directorate General of Transportation, and through direct surveys to the field to determine the performance of roads which are then analyzed in accordance with MKJI 1997. From the analysis results concluded that operational performance the bus is still in good category. However, the level of road service is included in level F where road conditions are congested, queues are long (vehicle volume exceeds capacity, traffic flow has been congested). Meanwhile, alternative solutions that can be applied such as diverting traffic flow to other roads, limiting heavy vehicles passing, applying of an even-numbered system, and widening the road along the sections affected by the construction of overpasses.

Keywords: *Transjakarta Bus Operational Performance, Travel Time, Load Factor, Headway, Level of Service Road (Level of Service), Traffic Volume, Vehicle Speed, Side Obstacles, Due to Infrastructure Development*