

ABSTRACT

EVALUATION OF PERFORMANCE AND IDENTIFYING THE CAUSES OF CONGESTION

(Case Study : Lenteng Agung Road, South Jakarta)

By

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Growth area in the southern part of the city is quite rapid, so that the problem of congestion on the main road network appears. Not least in the Street Lenteng Agung. Land use systems in the Lenteng Agung Road is the main access from South Jakarta to the city of Depok, and vice versa. High mobility in this pathway increase the volume of traffic - vehicular traffic, so that gradually the saturated conditions will cause congestion - traffic as well as the rise in travel time (travel time). Purpose research is for evaluate the performance of road and identify point of congestion along the Street Lenteng Agung.

Existing method of research is to identify the points is potentially a jam and analyze the degree of saturation (DS) that occur at that point.

The results of research showed that point of congestion traffic with huge impact who posed, who owned Jalan Lenteng Agung is located in Train Station of Lenteng Agung dan Train Station of Tanjung Barat. On the road in Great Lanteng station for directions to Jakarta there are 2 intersections there are intersection Jagakarsa and M.Kahfi 2, Reviews the two junctions are at Reviews the same location and within close. that intersections was in same location and adjacent. The calculations obtained at Simpang Jagakarsa with $DS = 1.14$ has a LOS D, at Simpang M.Kahfi 2 $DS = 0.97$ with LOS C, whereas for the calculation of the direction towards Depok $DS = 1.06$ with LOS F. For the location of the other jam are analyzed in the Tanjung Barat Station for both directions. The results showed that in the Tanjung barat Station (directions to jakarta) $DS = 1,25$ with LOS F. As for the opposite direction towards Depok $DS = 0,9$ with LOS F.

Keyword: *degree of saturated, traffic jam point, traffic volume, Level of service.*