

ABSTRACT

ANALYSIS THE EFFECT OF ACTIVITIES IN THE TUGU MARKET BANDAR LAMPUNG TO THE TRAFFIC PERFORMANCES IN HAYAM WURUK ROAD BANDAR LAMPUNG

by

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The high activity of the Tugu Market can cause conflicts and affect the movement of the traffic flow and reduce the function of road performance. Market activity that can reduce the function of road performance such as vehicles which are moving in and out the market, on-street parking, and pedestrian. The purpose of this research to evaluate the effect of activity in Tugu Market for road performance and determine design solutions to improve the road performance.

This research are obtained by doing survey of traffic volume (LHR) to see the density of vehicles, then surveys the side friction to see the influence of market activity and instantenous velocity surveys both distrubed and undistrubed side friction. This research doing in 250 meters in a market segment of Tugu in Bandar Lampung. Next calculation use the Manual Capacity of Indonesian Road in 1997 for the Urban Roads.

Based on calculation, the highest traffic volume is 867 pcu/hours, capacity 1386,63 pcu/hours, with a degree of saturation of 0,63 (B), and the speed of vehicle is 16 km/hour. The volume of vehicles on the roads in Tugu Market is low, it is indicating that the low speeds caused by the presence of side friction. To reduce the level of side friction, it is necessary to providing parking facilities, arrangement of street vendors, installation of ban stop sign along the road of market, and the assertion of goverment regulations on the use of the pedestrian way. So, level of side friction become 259,10 pcu/hours (L), flow velocity 49,10 km/hours, and capacity become 1416,77 pcu/hours.

Keywords : side friction, traffic volume, national road