

MEASURING URBAN TRAFFIC CONGESTION ON THE EFFECT OF A NEWLY
DEVELOPED AREA AT TAMAN TAS

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ABSTRAK

Bersama-sama dengan pembangunan bandar, isu pengangkutan sentiasa dilupakan dan tidak diambil serius. Kawasan komersial yang baru dibangunkan di Taman Tas, Kuantan telah menarik perjalanan trafik baru ke / dari kawasan ini. Kesyakan lalu lintas yang serius pada waktu puncak boleh dilihat apabila bilangan perjalanan yang tinggi dijana dari kawasan komersial yang baru dibangunkan yang menggabungkan dengan yang sedia ada melalui lalu lintas di Jalan Kuantan - Gambang. Kajian ini akan menganalisis tahap kesesakan di sebahagian Jalan Kuantan-Gambang yang menghubungkan sepanjang kawasan pembangunan sedia ada dan yang baru dibangunkan di Taman Tas. Dalam kajian ini, keadaan trafik disiasat dengan menjalankan kajian soal selidik diikuti dengan analisis operasi trafik menggunakan Malaysia Highway Capacity Manual. Akhir sekali, tahap perkhidmatan jalan (LOS) yang dicadangkan bagi sepanjang seksyen jalan ini diramalkan menggunakan perisian Aimsun TSS. Hasilnya menunjukkan kawasan yang baru dibangunkan di Taman Tas mempunyai tahap perkhidmatan (LOS) didalam tahap LOS F berjaya dinaikkan ke LOS E.

ABSTRACT

Along with the development of a city, transportation issue is always been forgotten and not being taken seriously. The newly developed commercial area at Taman Tas, Kuantan had attracted new traffic trips to/from this area. Serious traffic congestion during peak hours can be seen when high number of trips generated from the newly developed commercial area are combine with the existing through traffic at Jalan Kuantan – Gambang. This study will analyse the level of congestion on a section of Jalan Kuantan-Gambang that stretch along existing and newly developed area at Taman Tas. In this research, the traffic situation is investigated by conducting the questionnaires survey followed by traffic operational analysis using Malaysia Highway Capacity Manual. Finally, the newly suggested level of service of this road section is forecasted using Aimsun TSS software. The result shows the newly developed area at Taman Tas had bring the Level of Service of that section of road to LOS F. By means of some adjustments made and forecasted using Aimsun, the Level of Service is able to be brought up to LOS E.