TRAFFIC MANAGEMENT AROUND THE STREETS OF ABEPURA IN JAYAPURA

Student : Yones Yubilia Biring  
ID Number : 3107206008  
Supervisor : A. A. Gde Kartika, ST, MSc  
Budi Raharjo, ST, MT

ABSTRACT

The research has aimed to assess the performance of unsignalized intersection on three way junction Abepura main road - Baru road in Jayapura city. With the number of vehicles that pass through the intersection, so often create traffic jams often occur even in simpang conflict. Of the research performance of this author does not signal the junction would like to set the traffic management settings on the junction with traffic lights, on the research conducted a survey of vehicles each direction at the intersection for six days manually, and in the calculation of the performance is not in the can signals the junction behavior of the traffic intersection as follows: total traffic flow 4199.43 smp/h, degree of saturation 1.14, intersection traffic delay 29.65 det/smp, intersection geometric delay 4.00 det/smp.

On a calculation by arrangements traffic lights direction of Sentani - Jayapura (phase I) : Total traffic flow 208.00 smp/h, degree of saturation 0.93, intersection traffic delay 114.67 det/smp, intersection geometric delay 4.00 det/smp, length of queue of 56.37 meters.

For directions from Jayapura - Sentani (phase II): total traffic flow 2122.63 smp/h, degree of saturation 0.89. Intersection traffic delay 13.75 det/smp, intersection geometric delay 2.84 det/smp and length of queue 155.56 meters.

The vehicles from Baru road shall enter intersection prohibited turn right, but turn left onto the highway follows the light cues Abepura phase I. After turn left directly at a distance of 100 meters from the intersection may turned over the direction towards Jayapura.

The application of traffic management and traffic lights where the degree of saturation of phase I 0.93 and phase II 0.89 it is known that both the degree of saturation phase still > 0.75 as required Manual Kapasitas Jalan Indonesia (MKJI), then the need to increase the ban to stop signs and parking restrictions on distance intersection.

Keywords : unsignalized intersection, signalized intersection, degree of saturation, traffic signs