ABSTRACT

ANALYSIS OF LOSS DUE TO TRAFFIC CONGESTION IN TERMS OF EMISSIONS OF MOTOR VEHICLES IN THE CENTRE OF THE CITY OF BANDAR LAMPUNG

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Bandar Lampung center is the city has an appeal to the movement of city community activities. Community activities reside and works in city, access the overall activities of the center goverment, education nor economy into one point travel communities in the city. Access of main roads that connect to city center direction of traffic occurring on Teuku Umar street – Raden Intan street and Kartini street– Teuku Umar street. Traffic jams often appears to occur in the way of this happening, congestion caused by traffic volume approaches the road capacity arises due to the high activity of society in meeting the necessities of life that happens in the big city.

Congestion caused of high volume vehicles in the way would result in increased motorcycle vehicle emissions and cost of emission losses that occur on air pollution. This research was conducted to analyzed the magnitude of pollutants concertrations generated emissions of motorcycle vehicles in the city of Bandar Lampung with calculation methods of emissions using emission factors for loads of Indonesia as well as assessing level of damage cost emissions generated for reduction of greenhouse gas emissions (GRK). The survey was conducted during hour busy on Monday, Wednesday and Friday on the direction Teuku Umar street – Raden Intan street and Kartini street – Teuku Umar street. Factors substances polluters motorcycle vehicles in this study is limited to pollutants such as *Carbon Monoxide (CO), Carbon Dioxide* (CO_2), *Hydrocarbons (HC), Nitrogen Oxides (NOx), Particulates* (PM_{10}), *Sulfur Dioxide* (SO_2), found in the content of motorcycle vehicle fuel.

Based on a survey and analysis of calculation emissions load as well as the cost of the losses showed that dense traffic flow going in the direction of Teuku Umar street – Raden Intan street by generating larger volumes of vehicle and load the resulting emissions at the summit Monday. Note that the total volume of emissions factors affect the vehicle and load the resulting emissions. Losses that cost impact on the burden of emission amounts at that level also influence the load of emissions that occur per year in the city of Bandar Lampung.That the predicted losses caused by congestion which affects vehicle emissions within 1 year of Rp. 169.333.469.136 in 2014 and reached Rp. 525.924.051.729 in 2024.

Key words : Congestions, vehicles volume, Substances pollutant emissions, the burden of polluters, the cost of the loss of the motor vehicle emissions.