ABSTRACT

MODEL EXHAUST EMISSIONS DUE TO GASOLINE FUELED TRANSPORT ACTIVITY IN CENTER OF THE CITY BANDAR LAMPUNG

By

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Bandar Lampung is center of the city in Province Lampung, where the transportation activity is increasing every year. Transportation is one of the activities that contribute as a producer emissions of motorcycle exhaust particularly gasoline.

The aim of this study is to make model between the relationship vehicle exhaust emissions with transport activity; to determine the factors that affect emissions and calculate the emissions in Raden Intan Street, Jend. Ahmad Yani Street and R.A. Kartini Street.

Base on data processing with SPSS 16 obtained the following linier regression equation: passenger cars is \( Y = 136.149 + 7.553 X_1 + 0.553 X_2 + X_3 \) 10.870 and for the motorcycle is \( Y = 135.238 + 2.335 X_1 + 1.203 X_3 \). Where the exhaust emissions value ( \( Y \) ), the age of the vehicle ( \( X_1 \) ), vehicle maintenance ( \( X_2 \) ) and the capacity of the engine ( \( X_3 \) ). Based on a survey and analysis of the emission load calculation as well as the cost to Raden Intan Street loss of Rp 9.202.742.248/year, Ahmad Yani Street Rp Rp 8.480.671.463/year and R.A. Kartini Street Rp 9.387.143.951/year.

Keywords: Transportation, Gasoline, Exhaust Emissions, SPSS 16