

## **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  $Y = 136.149 + 7.553 X1 + 0.553 X2 + X3$  10,870 and for the motorcycle is  $Y = 135.238 + 2.335 X1 + 1.203 X3$  . Where the exhaust emissions value (  $Y$  ), the age of the vehicle (  $X1$  ), vehicle maintenance (  $X2$  ) and the capacity of the engine (  $X3$  ). 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*