

ABSTRACT

Analysis of Noise and Exhaust Emissions Due to Traffic Activities in the Service Trade Area (Case Study : Jalan Margonda Raya in front of Hotel Savero Ddepok)

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Development in the transportation sector supports other sectors in realizing national development goals in all regions of Indonesia, especially in urban areas. The more development in an area, the more people in that area and the mobility on the road is high and encourages a higher number of vehicle volumes. As the volume of vehicles increases, it causes many problems such as traffic jams, noise and air pollution. One environment that has a negative impact from the high volume of vehicles is the service trade center, namely Hotel Savero Margonda Depok, which is located right in the access to urban traffic which is very dense with vehicles, causing noise and air pollution caused by vehicle exhaust emissions. Noise measurements were carried out using a Sound Level Meter and calculations using the CoRTN method. Measurement of exhaust emissions is carried out by calculating using empirical formulas. From the research results, it was found that the noise level on Jalan Margonda Raya was 12% higher than the permissible noise standard (KEP-48/MENLH/11/1996). As for exhaust emissions, it is still on the threshold of the exhaust emission quality standard set by the World Health Organization (WHO).

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