ABSTRACT

The development of transportation affects the volume of vehicles, especially in the city of Padang, which has an impact on the environment around the road. One of the impacts is causing traffic noise. This research aims to analyze the noise level in front of the Dharma Andalas University campus, Jalan Sawahan No. 103 A Padang. The noise calculation method is carried out using the Sound Level Meter noise measuring instrument and the Calculation of Road Traffic Noise (CoRTN) method. it was found that the noise level in front of the Dharma Andalas University campus at Point 1 (5 meters distance) was 76.6 dB (maximum), 72.3 dB (minimum), and the average was 74.1 dB. At Point 2 (10 meters distance) the maximum value was 70.4 dB, the minimum value was 66.3 dB, and the average was 68.56 dB. This means that the noise level for the area in front of the Dharma Andalas University campus exceeds the quality standard, namely 65 dB (KEP.48/MENLH/11/1996). The noise level using the CoRTN method at Point 1 (5 meter distance) is 69.2 dB (maximum), 66.5 dB (minimum), and an average of 67.6 dB. Meanwhile, at Point 2 (10 meters distance) the maximum value was 67.2 dB, the minimum value was 64.5 dB, and the average was 65.59 dB. This means that the noise level in front of the Dharma Andalas University campus using the CoRTN method exceeds the quality standard (65dB).

Keywords : Noise, Calculation of Road Traffic Noise (CoRTN), Sound Level Meter.

ABSTRAK

Perkembangan transportasi mempengaruhi volume kendaraan khususnya di kota Padang yang berdampak terhadap lingkungan sekitar jalan. Salah satunya dampaknya adalah menyebabkan kebisingan lalu lintas. Penelitian ini bertujuan untuk menganalisis tingkat kebisingan di depan kampus Universitas Dharma Andalas Jalan Sawahan No.103 A Padang. Metode perhitungan kebisingan dilakukan dengan menggunakan alat ukur kebisingan *Sound level Meter* dan metode *Calculation of Road Traffic Noise* (CoRTN). Tingkat kebisingan di depan kampus Universitas Dharma Andalas pada Titik 1 (jarak 5 meter) adalah 76,6 dB (maksimum), 72,3 dB (minimum), dan rata-ratanya 74,1 dB. Pada Titik 2 (jarak 10 meter) didapatkan nilai maksimum 70,4 dB, nilai minimum 66,3 dB, dan rata rata 68,56 dB. Artinya tingkat kebisingan untuk kawasan di depan kampus Universitas Dharma Andalas melebihi baku mutu yaitu 65 dB (KEP.48/MENLH/11/1996). Tingkat kebisingan dengan menggunakan metode CoRTN pada Titik 1 (jarak 5 meter) 69,2 dB (maksimum), 66,5 dB (minimum), dan rata rata 67,6 dB. Sedangkan pada Titik 2 (jarak 10 meter) didapatkan nilai maksimum 67,2 dB, nilai minimum 64,5 dB, dan rata-ratanya 65,59 dB. Artinya tingkat kebisingan di depan kampus Universitas Dharma Andalas menggunakan metode CoRTN melebihi standar baku mutu (65dB).

Kata Kunci : Kebisingan, Calculation of Road Traffic Noise (CoRTN), Sound Level Meter.