

## **GAMBARAN INTENSITAS KEBISINGAN DAN KELUHAN PEKERJA PADA INDUSTRI PENGGILINGAN BATU KAPUR DI DESA KARANGASEM TAHUN 2021**

Herlina Dyah Utami<sup>1</sup>, Sigid Sudaryanto<sup>2</sup>, Sri Haryanti<sup>3</sup>  
<sup>1,2,3</sup>Jurusan Kesehatan Lingkungan Poltekkes Kemenkes Yogyakarta  
Jl. Tatabumi No.3 Banyuraden, Gamping, Sleman  
email : [herlinautami00@gmail.com](mailto:herlinautami00@gmail.com), [agustinus\\_sigid@yahoo.com](mailto:agustinus_sigid@yahoo.com),  
[sriharyanti149@gmail.com](mailto:sriharyanti149@gmail.com)

### **ABSTRAK**

**Latar Belakang :** Industri penggilingan batu kapur menghasilkan suara bising yang ditimbulkan oleh mesin-mesin. Suara bising ini cukup tinggi sehingga mengganggu tenaga kerja ketika melakukan pekerjaan. Hasil survei pendahuluan dilakukan pengukuran kebisingan pada industri batu kapur sebelum mesin beroperasi sebesar 33,66 dB dan saat mesin beroperasi sebesar 91,16 dB, berdasarkan wawancara dengan pekerja dikatakan bahwa sering pusing ketika terpapar kebisingan.

**Tujuan :** Tujuan dari penelitian ini adalah mengetahui gambaran kebisingan pada 3 lokasi penggilingan batu kapur di Desa Karangasem dengan pengukuran yang dilakukan saat mesin tidak beroperasi, saat mesin beroperasi, dan lingkungan industri, serta keluhan yang terjadi pada pekerja.

**Metode :** Jenis penelitian ini adalah penelitian survei dengan menggunakan pendekatan observasi. Penelitian ini dilaksanakan pada kurun waktu bulan Januari 2021. Obyek penelitian ini adalah 3 industri penggilingan batu kapur di Desa Karangasem. Analisis data menggunakan analisis deskriptif.

**Hasil :** Hasil pengukuran rerata intensitas kebisingan sebelum mesin beroperasi sebesar 35,08 dB, saat mesin beroperasi sebesar 93,15 dB, dan lingkungan industri sebesar 83,3 dB. Serta keluhan pada pekerja gangguan komunikasi sebanyak 12 orang (40%), gangguan fisiologis sebanyak 4 orang (13,33%), gangguan psikologis sebanyak 4 orang (13,33%), dan tidak terganggu sebanyak 10 orang (33,33%).

**Kesimpulan :** Hasil pengukuran intensitas kebisingan di industri penggilingan batu kapur tidak memenuhi NAB. Hal ini sesuai dengan Permenkes No. 70 Tahun 2016 tentang Standar dan Persyaratan Kesehatan Lingkungan Kerja Industri NAB untuk 8 jam kerja/hari adalah 85 dB. Serta keluhan pekerja seperti gangguan komunikasi, gangguan fisiologis dan gangguan psikologis sebanyak 20 orang (66,67%).

**Kata Kunci :** Penggilingan batu kapur, Intensitas kebisingan, Keluhan pekerja

## DESCRIPTION OF NOISE INTENSITY AND WORKER COMPLAINTS IN THE LIMESTONE MILL INDUSTRY IN KARANGASEM VILLAGE IN 2021

Herlina Dyah Utami<sup>1</sup>, Sigid Sudaryanto<sup>2</sup>, Sri Haryanti<sup>3</sup>  
<sup>1,2,3</sup>Departement of Enviromental Health Poltekkes Kemenkes Yogyakarta  
Jl. Tatabumi No.3 Banyuraden, Gamping, Sleman  
email : [herlinautami00@gmail.com](mailto:herlinautami00@gmail.com), [agustinus\\_sigid@yahoo.com](mailto:agustinus_sigid@yahoo.com),  
[sriharyanti149@gmail.com](mailto:sriharyanti149@gmail.com)

### ABSTRACT

**Background :** The limestone mill industry produces noise generated by machines. This noise is high enough that it interferes with the workforce when doing work. The results of the preliminary survey carried out a noise measurement in the limestone industry before the machine operates at 33.66 dB and when the machine operates it is 91.16 dB, based on interviews with workers it is said that they often get dizzy when exposed to noise.

**Purpose :** The purpose of this study is to determine the noise description at 3 limestone mill locations in Karangasem Village with measurements taken when the machine is not operating, when the machine is operating, and the industrial environment, as well as complaints that occur to workers.

**Method:** This research is a survey research using an observational approach. This research was conducted in the period of January 2021. The objects of this study were 3 limestone milling industries in Karangasem Village. Data analysis using descriptive analysis.

**Results :** The measurement results of the average noise intensity before the engine operates is 35.08 dB, when the machine is operating is 93.15 dB, and the industrial environment is 83.3 dB. As well as complaints to communication disorders workers as many as 12 people (40%), physiological disorders as many as 4 people (13.33%), psychological disorders as many as 4 people (13.33%), and not disturbed by 10 people (33.33%) .

**Conclusion :** The results of the measurement of noise intensity in the limestone mill industry do not meet TLV. This is in accordance with Permenkes No. 70 of 2016 concerning Standards and Health Requirements of the Industrial Working Environment NAB for 8 hours of work / day is 85 dB. As well as worker complaints such as communication problems, physiological disorders and psychological disorders as many as 20 people (66.67%).

**Keywords :** Limestone grinding, noise intensity, worker complaints