

ABSTRACT

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“NOISE INTENSITY AND HEARING CAPABILITIES OF WORKERS IN THE WATER TREATMENT INSTALLATION AREA OF PDAM DELTA TIRTA, SIDOARJO REGENCY IN 2022”

xv + 61 Pages + 3 Pictures + 10 Tables

One of the work rooms at PDAM Delta Tirta, Sidoarjo Regency has a fairly high noise level of 91 dBA so that it poses a health risk to the workforce. This study aims to determine the noise intensity and hearing ability of workers in the water management installation area of PDAM Delta Tirta, Sidoarjo Regency in 2022.

This type of research is descriptive observational. The variables of this research are the noise intensity and the hearing ability of the workers in the water treatment installation area of PDAM Delta Tirta, Sidoarjo Regency. Measurement of noise intensity using a sound level meter and for measuring hearing ability using an audiometry tool. The data obtained will then be processed and presented in tabular form and then analyzed descriptively.

The results showed that the noise intensity contained in the distribution pump was 91.1 dB, the ultrafiltration pump was 85.5 dB, the operator station was 66.4 dB, and the storage room was 76.6 dB. The results of the examination using audiometry obtained the number of workers who experienced mild deafness 0 people (0%) and normal ears as many as 12 people (100%). This is because the workforce is in a room where the noise level exceeds the NAV only once every 2 hours in 1 shift.

It is expected that the company will make noise control efforts by installing silencers in rooms where there is noise, the presence of signs or warning signs in noisy areas whose noise has exceeded the NAV, and supervision from the leadership of PDAM Delta Tirta IPA Siwalan Panji for compliance use of ear protection when working in a noisy place.

Keywords : Machine Noise, Hearing Ability, Labor
Reading List : 30 Books and Journals (1996 – 2021)