

ABSTRAK

Tujuan dari penelitian ini adalah untuk mengetahui tingkat kebisingan di warehouse Elnusa dan korelasi tingkat kebisingan dengan output hasil kerja. Pengambilan data tingkat kebisingan dilakukan di area Grinding, Cutting, Welding, Rig, Maintenance, Junk Equipment, Rig Equipment dan Asset Equipment dengan tidak memakai earplug dan memakai earplug. Data diambil setiap 5 menit dalam 1 jam. Untuk pagi/siang diwakili 4 jam dan sore/malam diwakili 3 jam.

Nilai tingkat kebisingan dan korelasi dengan output hasil kerja dengan tidak memakai earplug adalah area Grinding 107,9 dB dan $Y = 569.23 - 5.254X$, area Welding 92.3 dB dan $Y = 96.75 - 1.031X$, area Cutting 99.8 dB dan $Y = 30.372 - 0.268X$, area Rig 85.7 dB, area Maintenance 68.6 dB, area Junk Equipment 67 dB, area Rig Equipment 84.6 dB dan area Asset Equipment 71.2 dB.

Nilai tingkat kebisingan dan korelasi dengan output hasil kerja dengan memakai earplug adalah area Grinding 82.9 dB dan $Y = 146.7 - 1.737X$, area Welding 67.3 dB dan $Y = 45.64 - 0.651X$, area Cutting 74.8 dB dan $Y = 53.14 - 0.645X$, area Rig 60.7 dB, area Maintenance 43.6 dB, area Junk Equipment 42 dB, area Rig Equipment 59.6 dB dan area Asset Equipment 46.2 dB.

Kata Kunci: Analisis Kebisingan, Korelasi Kebisingan terhadap Output, Warehouse



ABSTRACT

The purpose of this study is to determine the level of noise in the warehouse Elnusa and determine correlation level of noise with work output. Data collection of noise will do in the area of Grinding, Cutting, Welding, Rig, Maintenance, Equipment Junk, Rig Equipment and Asset Equipment with two cases, without wearing earplugs and wearing earplug. Data is taken every 5 minutes in 1 hour. For morning/daytime represented 4 hours and afternoon/evening represented 3 hours.

Level of noise and correlation level of noise with work output without wearing earplugs are Grinding area 107,9 dB and $Y = 569.23 - 5.254X$, Welding area 92.3 dB and $Y = 96.75 - 1.031X$, Cutting area 99.8 dB and $Y = 30.372 - 0.268X$, Rig area 85.7 dB, Maintenance area 68.6 dB, Junk Equipment area 67 dB, Rig Equipment area 84.6 dB and Asset Equipment area 71.2 dB.

Level of noise and correlation level of noise with work output with wearing earplugs are Grinding area 82.9 dB and $Y = 146.7 - 1.737X$, Welding area 67.3 dB and $Y = 45.64 - 0.651X$, Cutting area 74.8 dB and $Y = 53.14 - 0.645X$, Rig area 60.7 dB, Maintenance area 43.6 dB, Junk Equipment area 42 dB, Rig Equipment area 59.6 dB and Asset Equipment area 46.2 dB.

Key Words : Noise Analysis, Correlation Noise on Output, Warehouse

