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Paper Type: Research Article
Paper Title: "BIOFILTER APPLICATION IN REDUCING TOTAL DUST PARTICLES IN THE AIR"
Area of Research: Environment Health
Paper Issue: Volume 56, Issue 09

Abstract
Air is an environmental component needed for human survival. This means that the respiratory organs are constantly exposed to particles contained in the air, including harmful particles that interfere with health such as dust. As we know that the presence of dust in the industry is something that is certain so that the dust must be controlled. On the other hand, the small scale industrial sawmill industry with thousands in number and spread in rural areas, this waste has not been utilized optimally. Sawdust can be used as a filter for air dust. The purpose of this study was to determine the effectiveness of various variations of wood sawdust in multiplex applications to reduce the level of Total Dust Particles. The type of research used is a quasi-experimental laboratory scale to be applied in the field. This study uses the Pretest-Posttest One Group design. Measurements were made using HVS with 24 study samples with 3 different thicknesses of 10 cm, 15 cm and 20 cm. The results showed a decrease in thickness of dust by 2.0%, 10 cm by 4.0% and 20 cm by 8.0%. Statistical testing using the ANOVA test and obtained an alpha value of 0.000, it can be concluded that there is a relationship. There it can be concluded that the most effective thickness is 20 cm.

Others Information
Number of Figures: 0 Number of Tables: 0 Number of Words: 0

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Name of other Authors
1. Tugih Budi Pujono 2. Pujono 3.

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Air is an environmental component needed for human survival. This means that the respiratory organs are constantly exposed to particles contained in the air, including harmful particles that interfere with health such as dust. As we know that the presence of dust in the industry is something that is certain so that the dust must be controlled. On the other hand, the small scale industrial sawmill industry with thousands in number and spread in rural areas, this waste has not been utilized optimally. Sawdust can be used as a filter for air dust. The purpose of this study was to determine the effectiveness of various variations of wood sawdust in multiplex applications to reduce the level of Total Dust Particles. The type of research used is a quasi-experimental laboratory scale to be applied in the field. This study uses the Pretest-Posttest One Group design. Measurements were made using HVS with 24 study samples with 3 different thicknesses of 10 cm, 15 cm and 20 cm.

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