

PENGEMBANGAN TEKNOLOGI TEPAT GUNA MESIN PENGAYAK PASIR BERTINGKAT

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Abstract

Jayapura is a city that is currently a lot of construction everywhere, ranging from residential, office, shop - shop and others. The use of sand in constructing a building more and more increasing. Increased use of these sands occur because of the day to day needs of the building for economic survival that are needed in everyday life. Practical and economical nature of these causes of sand used as raw materials that are beneficial for development. The purpose of this study was to develop a simple sand sieving machine is easy to operate for building materials in Jayapura.

Method development and research is to design a multi-storey sand sieving machine using an electric motor. In this study should be planned is the motor power counting, shafts, pins, bearings, pulleys and belts. After the newly designed tool that has obtained the appropriate calculations.

The results obtained from this study were stratified sand sieving machine is already done the calculations and the design process so that it can be concluded that although the machine is not as automatic as sieving sand from previous studies, but it has been well-operated machine that can already be used to sift the sand, in this case is sand as a building material for construction workers in the city of Jayapura.

Keywords: *Technology Development, Stratified sand sieving machine, Easy to Operate.*