

Thesis Title	Development of Rice Husk Heat Generator for Seed Drying
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ABSTRACT

The research aims to study the development of heat generating machine used for drying seeds by using rice husk as a fuel with design of experiment technique: full factorial design for analysis optimization efficiency. Another one has the economics analysis that analyzed for worthwhile investment of drying seeds by using rice husk as a fuel machine.

The results of research for optimization thermal efficiency have two factors that to concern. The factors are husk feed rate and husk burning time. So the drying seeds by using rice husk must be set husk feed rate that at 45 kg/hr and husk burning time that at 40 minutes for the highest of thermal efficiency.

The study in terms of economic feasibility found that using rice husk for drying seeds can show the result of consider are net present values (NPV) 386,502 baths, internal rate of return (IRR) 81.60 % and discount payback period (DPB) 1.4 years. So the considering of using rice husk as a fuel for drying seeds in this machine.