

# **BRIKET SEKAM PADI MENGGUNAKAN PEREKAT BUBUR KERTAS.**

*( Rice Husk Briquettes Using Pulp Adhesive)*

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## ***ABSTRACT***

Fuel is energy that is needed by humans. The provision of biomass energy is very important for national development. One example of biomass is rice. Rice has waste in the form of straw and husks. Rice husk it self has a fairly high calorific value and a low water content value. The waste can be reused into charcoal for making briquettes. Making briquettes using rice husks and paper pulp as adhesives. The production of rice husk uses a carbonization process which is carried out for 3 hours. The adhesive uses paper pulp by soaking for 24 hours and in a blender to produce paper pulp with ratio of water and paper that is 4:1. This study aimend to analyze the characteristics of briquettes using rice husk and pulp adhesive. In this study, comparisons were made of 3 charcoal compositions: adhesive, namely the first composition 75%:25%, 70%:30%, and 65%:35%. The best composition is in the composition of 75% rice husk charcoal and 25% pulp adhesive, with a calorific value of 4646.7675 (Cal/g), water content 5.9707 (%), ash content 4.2927 (%), density 1.1479 (g/cm<sup>3</sup>), bulk density 0.3749 (g/cm<sup>3</sup>), and the combustion rate was 0.0551 (g/s).

**Keyword** : Briquette, Rice Husk, Pulp Adhesive.