

# MAHONI AND SENGON POWDER MIXED BRICKETS WITH RANDU

LEAVES (*Ceiba Pentandra*)

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## **ABSTRACT**

*Furniture business activities produce a lot of biomass waste. Utilization of biomass is still not effective because biomass still has high ash content and moisture content. To overcome this problem, a charring process is carried out before turning it into briquettes. One of the materials that can be used as raw material for briquettes is mahogany and sengon wood dust. So far, mahogany and sengon wood powder have not been utilized optimally. Mahogany and sengon wood powder has the potential as a basic ingredient of briquettes and leaves as adhesive and 1: 3 water. The aim of this study was to determine the characteristics of the briquettes produced in mixed mahogany and sengon sawdust briquettes and the suitability of the leaves as an adhesive for briquettes. The method used is the wet method, namely using an adhesive material that has not been dried with a variation of the composition of SKMS1 (80:20), SKMS2 (75:25), SKMS3 (70:30). The best briquette composition is on SKMS2, namely 25% adhesive, with a moisture content value of 6.23%, an ash content of 3.49%, a density of 0.6914 (g / cm<sup>3</sup>) and a compressive strength of 2.3369 (kg / cm<sup>2</sup>).*

*Keyword : Briquette, stretch leaves, Mahogany wood, sengon wood.*