

*(THE UTILIZATION OF COFFEE LEATHER WASTE AS AN ALTERNATIVE FUEL
OF CHARCOAL BRICKETS WITH A CHOCOLATE LEATHER ADHESIVE MIXED
(Manihot utilissima))*

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ABSTRACT

Farming activities produce a lot of biomass waste. Utilization of biomass waste is still ineffective because biomass still has high ash content and water content. To overcome this problem, a charring process is carried out before it is turned into briquettes. One of the materials that can be used as raw material for briquettes is coffee fruit waste. So far, coffee has not been utilized optimally. Coffee peel has the potential as a base for briquettes and cassava peels as an adhesive. The production of coffee skin bioarang is done by using the roasting method. The cassava peels in the blender are then mixed with 1: 3 ratio of adhesive water and water. The purpose of this study was to determine the characteristics of the briquettes produced in coffee skin briquettes and the suitability of cassava peels as an adhesive for briquettes. The method used is the wet method, namely using fresh adhesives. The test results show that the more adhesive content, the smaller the calorific value produced. The best briquette composition was KKP1, namely 25% adhesive content, with a moisture content of 6.60%, an ash content of 6.56%, a density of 0.5361 (g / cm³), a heating value of 4546 (cal / g) and compressive strength. 0.861 (kg / cm²).

Keywords : Briquette, Coffee skin, Cassava skin.