

TAJUK (TITLE)

BANANA SKIN COMPOSITE

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ABSTRAK (ABSTRACT)

Abstract: Issue/Background: After did some observation at fried banana stall at TTDI Shah Alam, found out that the fried banana seller will just throw in away in rubbish bin. They also will sell or give it to other farmers as animals food. **Problem statement:** The numerous wasted of banana skin around in our country may cause to environmental pollution since no one took action to prevent it. During decomposition process some of the chemical that released can caused air pollution and they are very harmful to the body. Besides that, banana skin residual will attract pest such as rats, cockroaches, and centipedes. This animal can possibly carry disease that harm to people. Other than that, peoples not see any potential in making the banana skin as an income for Malaysia's economy. People only see banana skin as an agriculture waste without any composite potential. **Research objective:** To produce a successful Banana Skin Composite panel. At the same time to prove that using banana skin is kind of a new alternative material to produce composite panel and minimizing banana skin waste itself. **Methodology:** Planning design for the panel based on existing equipment that is our mold measuring 360mm x 360mm. While the thickness of the panel is 12mm. Two types of resin with is Urea Formaldehyde and Phenol Formaldehyde are used as an adhesive. The machine used is Wood Composite Oven, Wood Flaker Machine and Wood Composite Hot Press. **Future recommendation:** Use the term of "agricultural waste" as our raw material is banana skin. We believe if we use the agricultural waste in a proper way, we can presenting banana skin as a new composite raw material in furniture making and solve the problems in future.

Keywords: banana skin, composite panel, Urea Formaldehyde, Phenol Formaldehyde