

***Development of Innovative Waste-Based Products
Banana Peels in Intisari MSMEs
Lumajang Regency***

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ABSTRACT

The background to this research is the high banana production in Lumajang Regency, East Java, which indirectly produces large amounts of organic waste in the form of banana peels. One of the business actors in the region, IntiSari MSME, produces banana chips on a large scale and does not yet have an optimal waste management system. The following research aims to utilize the waste of Agung banana peels from IntiSari MSME in Lumajang Regency as raw material for crackers. The addition of banana peels was carried out in five formulations (0%, 25%, 50%, 75%, and 100%), then tested organoleptically by panelists based on color, aroma, taste, and texture. Data analysis used the Kruskal-Wallis test because it was not normally distributed. The results stated that the addition of banana peels did not significantly affect aroma, taste, and texture, but did affect color. The best formulation was at 50% addition, which was still preferred by consumers. This innovation has the potential to reduce waste while increasing the added value of the product.

Keywords: Innovative Products, Crackers, Organoleptic Test, Kruskal-Wallis,