

***Analysis of the Implementation of Statistical Process Control (SPC) in Quality Control of Rengginang at Cap Bintang Home Industry in Jember Regency.***

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***ABSTRACT***

*Cap Bintang Home Industry has been established since 2015, which is a traditional food processing business specializing in rengginang. Rengginang is a traditional food product made from glutinous rice, produced from a mixture of glutinous rice, salt, garlic, coriander, shrimp paste, and shallots. This product is made through the process of cooking glutinous rice, seasoning, molding, sun-drying, and packaging. This study aims to determine the implementation of quality control of rengginang and the factors causing product defects of rengginang at Cap Bintang Home Industry. Statistical Process Control (SPC) was used in this study as an analytical tool with the assistance of np control chart, Pareto diagram, cause-and-effect diagram, and process capability. Based on 25 observations, the results of the np control chart implementation show that there are points exceeding the control limit, including 5 points on the shape uniformity attribute and 3 points on the product density attribute. The application of the Pareto diagram shows that the most common cause of rengginang defects is attributed to shape non-uniformity at 68%, with the causative factors originating from human, method, material, and environmental factors. The process capability of both attributes indicates that the company's process capability is still good.*

*Keywords: Rengginang, Quality Control, Statistical Process Control*