

## ABSTRACT

The MD Tofu Factory, located in Cikalong, West Bandung Regency. produces yellow tofu which is very popular. However, there are still defects in yellow tofu that cause the product not to reach consumers. Based on risk analysis using the University of New South Wales HS329 Risk Management Procedure reference, there is a very high risk (R-04) related to damage to the milling machine. This damage causes a buildup at the workstation during the soybean soaking process, which should take 4 hours, but can take up to 8 hours if the machine is damaged. As a result, too much water is absorbed into the soybeans, so that the final product becomes easily crushed and thin. This risk is unacceptable and requires appropriate management.

The final result of this final task is the design of a maintenance process using the Business Process Reengineering (BPR) method, which is supported by process standardization using a Standard Operating Procedure (SOP), additional output in the form of designing an operating time form for scheduling, and other supporting forms for documentation. The design results are expected to minimize the risk of defects by up to 50% and are able to reduce loss costs from the previous IDR 3,202,000 to IDR 1,601,000 within a period of 20 days, because the machine will be maintained to ensure the machine runs well without disrupting the production process and maintaining quality in particular the dimensions and texture of the final product are maintained.

***Keywords: Risk, Defect, Maintenance, Business Process Reengineering.***