

**IMPROVE CHILI PASTE PRODUCTION TIME  
USING AN AUTOMATIC TRANSFER SYSTEM**

By

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## STATEMENT BY THE AUTHOR

I hereby declare that this submission is my own work and to the best of my knowledge, it contains no material previously published or written by another person, nor material which to a substantial extent has been accepted for the award of any other degree or diploma at any educational institution, except where due acknowledgement is made in the thesis.

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## ABSTRACT

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The need for ready-to-eat food is increasing with the increase in the human population and the faster urban lifestyle in Indonesia. This has prompted food and beverage producer investors to choose Indonesia as their target market. One of the famous American food and beverage companies launching its brand in Indonesia. The previously manual production process is no longer relevant with the addition of the brand's products. For this reason, a faster-automated process is needed so that the production floor can produce existing and new products. In the production preparation process, raw materials that are large in quantity and large packages require a long time if handled manually. Therefore, this research replaced the manual process with an automated system. This research's raw material preparation process is stored in a storage tank. The system will automatically transfer to the destination blending tank if the production process requires it. In this research, the system is called an automatic transfer system. the system will use Programmable Logic Control (PLC) and Human Machine Interface (HMI) as standard controls in today's industrial world. In the automatic transfer process, flowmeters will be used as sensors, automatic valves, and pumps complete with Variable Speed Controller (VSD) become actuators so that the transfer process is not only faster, the amount and accuracy of the transfer process can be adjusted.

*Keywords: Automatic Transfer, Blending System, Direct Feeding, Dosing System, Batch processing.*

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## **DEDICATION**

I dedicate this study to my beloved family and this works for the future of the country  
Indonesia.

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