

**IMPROVE OPTIMAL RAW MATERIAL INVENTORY CONTROL BY
MINIMIZING DISCREPANCIES TO IMPROVE PERFORMANCE TOWARDS
STANDARDIZATION OR BETTER**

By

Yudhistyra Saputra
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SWISS GERMAN UNIVERSITY
The Prominence Tower
Jalan Jalur Sutera Barat No. 15, Alam Sutera
Tangerang, Banten 15143 - Indonesia

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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.

Yudhistyra Saputra

Student

Date

Approved by:

Ir. Ishardita Pambudi Tama, ST, MT, Ph.D, IPU

Thesis Advisor

Date

Dr. Ir. Gembong Baskoro, M.Sc., IPU, ASEAN Eng, APEC
Eng

Thesis Co-Advisor

Date

Dr. Ir. Maulahikmah Galinium, S.Kom., M.Sc

Dean

Date

Yudhistyra Saputra

ABSTRACT

IMPROVE OPTIMAL RAW MATERIAL INVENTORY CONTROL BY MINIMIZING DISCREPANCIES TO IMPROVE PERFORMANCE TOWARDS STANDARDIZATION OR BETTER

By

Yudhistyra Saputra

Ir. Ishardita Pambudi Tama, ST, MT, Ph.D, IPU, Advisor

Dr. Ir. Gembong Baskoro, M.Sc., IPU, ASEAN Eng, APEC Eng, Co-Advisor

SWISS GERMAN UNIVERSITY

This thesis is intended to conduct an optimal improvement strategy in raw material stock management with a lower mismatch rate to obtain better company performance and realize higher standards. Good stock management is essential in the manufacturing process and has an impact on productivity. Discrepancies in inventory, caused by recording errors, damage, theft, and process inefficiencies, often hinder company performance and pose operational challenges. This study provides answers to questions regarding the main causes of inconsistencies, the implications of inconsistencies on operational performance, the best solutions to reduce inconsistencies, and implementation plans to improve performance and standardization.

The results showed that the use of technology and training programs significantly reduced human errors, improved inventory accuracy, and provided real-time visibility into stock. By reducing discrepancies, the company was able to improve operational efficiency, reduce costs, and ensure more consistent availability of raw materials. It also facilitates better standardization of processes, improving the overall performance of the company. The goal is to ensure business sustainability and long-term competitiveness.

Keywords: Inventory Control, Inventory Discrepancy, Operational Efficiency, Standardization, Raw Material Inventory Management, Barcode, Employee Training, Cost Reduction, Company Performance.

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DEDICATION

I dedicate this works for:

To my lovely wife and daughter

To my kindest Thesis advisor, Ir. Ishardita Pambudi Tama, ST, MT, Ph.D, IPU
To my kindest Thesis co advisor, Dr. Ir. Gembong Baskoro, M.Sc., IPU, ASEAN Eng,
APEC Eng

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