



**IMPROVING PROCUREMENT BUSINESS PROCESS AND
MANAGEMENT USING DMAIC METHODOLOGY TO
INCREASE EFFICIENCIES AT PT. YS**

UNDERGRADUATE FINAL PROJECT

Submitted as one of the requirements to obtain Sarjana Teknik (S.T.)

By

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FACULTY OF ENGINEERING

INDUSTRIAL ENGINEERING STUDY PROGRAM

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PANEL OF EXAMINERS APPROVAL

The Panel of Examiners declare that the undergraduate thesis entitled **“IMPROVING PROCUREMENT BUSINESS PROCESS AND MANAGEMENT USING DMAIC METHODOLOGY TO INCREASE EFFICIENCIES (A case study in PT YS)”** that was submitted by Mingze Tang majoring in Industrial Engineering from the Faculty of Engineering was assessed and approved to have passed the Oral Examination on June 24th, 2023.

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FINAL PROJECT ADVISOR RECOMMENDATION LETTER

This thesis entitled “**IMPROVING PROCUREMENT BUSINESS PROCESS AND MANAGEMENT USING DMAIC METHODOLOGY TO INCREASE EFFICIENCIES (A case study in PT YS)**” prepared and submitted by **Mingze Tang** in partial fulfillment of the requirements for the degree of Bachelor Degree in the Faculty of Engineering has been reviewed and found to have satisfied the requirements for a thesis fit to be examined. I therefore recommend this thesis for Oral Defense.

Cikarang, Indonesia, June 30th 2023



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Andira Taslim., S.T., M.T.

**IMPROVING PROCUREMENT BUSINESS PROCESS
AND MANAGEMENT USING DMAIC METHODOLOGY
TO INCREASE EFFICIENCIES AT PT. YS**

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Andira Taslim, S.T., M.T.

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Head of Industrial Engineering Program

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1.1 Problem Background

The construction industry includes the construction, maintenance and repair of real estate, as well as the construction of roads and public facilities.

Structural additions and renovations such as load-bearing walls, beams and facades are also included.

This industry has been developing rapidly and now plays an important role in many countries and regions.

The Asia-Pacific region dominates the global construction

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ABSTRACT

PT YUSHEN is a small Chinese construction company in Indonesia. From December 2023 to February 2023, we observed and interviewed the business process and management of the company for a total of three months. We found that the company's business There are many problems in the process and management, which will cause the company's financial pressure to be high, and the on-site project cannot be completed on time. Therefore, this article will use Six Sigma to research and analyze its business process and management, optimize and improve it, make the business process and management more standardized and reasonable, and lay the foundation for the company's future development.

Keywords: *Business Process, Six Sigma, Organizational Structure, Small Business, Flowchart, BPM.*

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Cikarang, 07 August 2023

Mingze Tang

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LIST OF TERMINOLOGIES

- BPM : Business process management is a comprehensive management model that achieves the integration of various business links of the enterprise. Business process management focuses on identifying a series of business management activities and managing the operational processes of these activities.
- 6 Sigma : 6 sigma is a management strategy that emphasizes setting high goals, collecting data, and analyzing results to reduce defects in products and services.
- Business Process Mapping : Business process mapping refers to the activities involved in defining what a business entity does, who is responsible, by what criteria a business process should be completed, and how to determine whether a business process is successful. The main purpose is to help organizations become more efficient.
- ABC Analysis : ABC analysis is an analysis method that sorts and queues things according to their main characteristics in terms of technology or economy, distinguishes key points from general ones, and determines management methods differently. Because it divides the analyzed objects into three categories: A, B, and C