

**IMPROVING WASTE MANAGEMENT SYSTEM  
OF LEADING CONSTRUCTION FIRM IN INDONESIA:  
A STUDY IN NOTABLE HIGH RISE BUILDING PROJECT  
IN JAKARTA**

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MASTER'S DEGREE  
in

MECHANICAL ENGINEERING – ENGINEERING MANAGEMENT  
FACULTY OF ENGINEERING AND INFORMATION TECHNOLOG

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January 2021

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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

### IMPROVING WASTE MANAGEMENT SYSTEM OF LEADING CONSTRUCTION FIRM IN INDONESIA: A STUDY IN NOTABLE HIGH RISE BUILDING PROJECT IN JAKARTA

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The Construction & Demolition (C&D) industry is very close to various waste management issues as the generation of waste is inevitable in every construction. In Indonesia, to make an applicable implementation of C&D Waste Management, the improvement must be made by looking into the actual field process. The research objective is to design new concrete related waste handling at project in order to achieve better waste generation rate and BMWWS aspects in general. The methods are divided into four stages, and VSM tools were used to help map out and utilized as a tool to improve the waste management. The result shows that the process of concrete from orders to waste took eight steps, and three of them are improved, producing 3% lesser waste from the current state. The best scenario of BMWWS (Indonesia abbreviation for Biaya (Cost); Mutu (Quality); Waktu (Time) and Safety) were analyzed to also answer the stakeholder interest within the case study.

*Keywords:* C&D Waste Management; Value Stream Mapping; Concrete waste management, Construction waste, Lean waste production.





## DEDICATION

I dedicated this research to everyone who never stops learning and thriving, to my country Indonesia and it's growth opportunity, and my family for giving endless supports and love.

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### ACKNOWLEDGEMENTS

I thank the SGU-MME for the great opportunity, all the member in our class of 2019 and the eternal sharing of wisdom and knowledge. My appointed Advisor, Mr. Sumarsono ST., MT., Ph.D for guiding me and challenge myself to giving my best, My co-advisor, Mr. Ir. Gembong Baskoro M.Sc., Ph.D for sharpening the wisdom of every moments in life and knowledge, and all the people at the notable project of structure building that are the object of studies in this research for being open-minded and support an academical approach to such field-focus and labour-intensive work, and lastly ACSET and United Tractor for sharing the opportunity to grow more and support this class proudly.

I believe we can make changes even by a little for better future.

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