

IMPROVEMENT PUT AWAY PROCESS WITH CLASS-BASED AND DEDICATED-  
BASED STORAGE IN SPARE PART WAREHOUSE PT. TIRE INDONESIA

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

### IMPROVEMENT PUT AWAY PROCESS WITH CLASS-BASED AND DEDICATED- BASED STORAGE IN SPARE PART WAREHOUSE PT. TIRE INDONESIA

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The 4899 items routine spare part vital that stock in spare parts warehouse which consist of 3778 items in 1<sup>st</sup> floor, 1060 in 2<sup>nd</sup> floor, 61 items non-location. Non-location and un-located spare part into rack in vital item, it caused by poor put away process. It impact to the pick-up order process caused takes time to search and pick-up the spare part, and possible causes of missing spare parts, and also it is already become finding of internal audit PT. Tire Indonesia.

This research is to identify and analyse of put away process, then improve of it used class-based and dedicated storage. Adopted the haphazard storage, put away process to allocated the item just considering empty rack; it caused poor put away process, and impact to pick-up order process that take time to search and non-location spare part occurred.

The improvement with Class-based and dedicated storage by provided information where to allocate the spare part and proposed the alternative layout. It increasing the pick-up order throughput by 25 % from M009002M - 5V2043 to 5L2020 in 1<sup>st</sup> floor, and by 56 % from M230073M - 2V3051 to 5L2020 in 2<sup>nd</sup> floor spare part warehouse.

*Keywords: Parts, Put-away, Pick-up, Class-based, Dedicated-based*



## **DEDICATION**

This thesis especially I dedicate to my father Niman, my mother Hermawati, my Family,  
and PT. Gajah Tunggal Tbk.



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7. Fellow students of engineering management Swiss German University

The author realizes this thesis there are many deficiencies, in writing. Therefore the author needs suggestions so this thesis better, and as advice for further research. Hopefully, this research can be useful for all of us.

Tangerang, 2020

Author

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