

**INCREASING PRODUCTION TO IMPROVE FINANCIAL PERFORMANCE
BY IMPROVING MACHINE SPECIFICATIONS AND READINESS IN
PROJECT-X OF PT XYZ**

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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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This research is based on the background of project-X at PT XYZ experiencing financial performance losses, where the Net Income Operation before tax was minus. Then in the midst of industrial conditions of price wars, production that has never been achieved, policy constraints for investment and operation project risks, improvements must be made immediately. The aim of this research is to improve technical specification equipment and readiness aspects which will lead to achieving production and achieving positive financial performance. The method used in this research is based on the principle of DMAIC (Define, Measure, Analyze, Improve & Control). Starting from identifying problems, collecting and measuring data, analyzing the data whether it is in accordance with the standards and targets set or deviations occur. From the root caused analysis, production failures resulted in negative performance due to low equipment readiness and incorrect equipment specifications. And also operation aspect in terms of grade ability, rolling resistance and matching equipment and fleet numbers. The conclusion from this research is with improving the readiness, matching specification and fleet numbers as well as improving operational parameters has an impact on improving production and project financial performance become positive.

Keywords: Gradability, Rolling Resistance, Optimum Fleet Recommendation, Time Motion Study, IMBT, PSAK 107.

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DEDICATION

I dedicate this research thesis to my beloved family: my wife Dwi Yuni Iriana, SE, my older daughter Shadrina Zalfa N who is currently studying in faculty dentistry in Semarang, as well as to my little daughter Tiara Ardina T. And also I dedicate it to my beloved campus Swiss German University and to the nation, enriching the repertoire and providing references for solutions that might face similar problems.

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