

**DETERMINING CRITICAL FACTORS
PROJECT DELAY AND EFFECTING COST OVERRUNS
IN TELECOMMUNICATION MOBILE NETWORK PROJECTS**

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

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A Telecommunication Mobile Network Project is common and significantly effects by enormous ways, particularly towards cost overruns. This study investigates critical factors project delay and expound its effect to cost overruns in Telecommunications Mobile Network Project in Jabodetabek area, Indonesia. Using questionnaire with 38 factors based on purpose sampling from different Contractors Organizations. The methodologies used in this study are Factor Analysis and Multiple Linear Regression that processed using IBM SPSS Statistics Software. The result of this study are three new critical factors; Lack of cost plan or monitoring (X18) as first Critical Factor Project Delay effect to Cost Overruns, Equipment failure (X37) as second Critical Factor Project Delay effect to Cost Overruns, Extension of time (X8) as third Critical Factor Project Delay effect to Cost Overruns, Inadequate project preparations (X19) as fourth Critical Factor Project Delay effect to Cost Overruns and one Model Multiple Linear equations to expound its effect to cost overruns

$$Y = -2.560 + 0.038X8 - 0.066X18 - 0.022X19 + 0.036X37$$

Keywords: Critical Factors, Project Delay, Telecommunication Mobile Network Projects, Factor Analysis, Cost Overruns



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DEDICATION

O Allah! All praise and gratitude be to You.

I would like to dedicate my thesis research to my beloved country, Indonesia.

I believe this thesis research can contribute to the advancement of science and
technology in Indonesia



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Having reached the end of the journey of my research and after sincerely thanking Allah for all the blessings, I would like to thank all those who have helped me in completing this piece of academic study.



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