ANALYSIS ON THE CAUSES OF LATE MATERIALS ARRIVAL FOR AUSTRALIAN EMBASSY CONSTRUCTION PROJECT IN JAKARTA (A CASE STUDY OF PT. XYZ INDONESIA)

By

Annisa Restu Anggraini 13111077

BACHELOR'S DEGREE in

BUSINESS ADMINISTRATION
BUSINESS ADMINISTRATION AND HUMANITIES



SWISS GERMAN UNIVERSITY EduTown BSD City Tangerang 15339 Indonesia

June 2015

Annisa Restu Anggraini

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.

	Annisa Restu Anggraini	
	Student	Date
	Approved by:	
SW	Junaidi Sinaga MBA Thesis Advisor	Date
	Dr.rer.net.Linus Pasasa	
	Thesis Co-Advisor	Date
	Prof. Eric J. Nasution, MBA, MA., PhD	
	Dean	Date

ABSTRACT

ANALYSIS ON THE CAUSES OF LATE MATERIALS ARRIVAL FOR AUSTRALIAN EMBASSY CONSTRUCTION PROJECT IN JAKARTA (A CASE STUDY OF PT. XYZ INDONESIA)

By

Annisa Restu Anggraini Junaidi Sinaga MBA, Advisor

SWISS GERMAN UNIVERISTY

The purpose of this study is to analyze the causes of late materials arrival for Australian Embassy construction project in Jakarta done by PT. XYZ Indonesia. This research is qualitative and using both primary and secondary data, which collected from the company data including interview with senior purchasing for import goods and monitoring the delivery data in the purchasing department. The data is analyzed using Ishikawa diagram and cause and effect matrix to identify the causes of late materials arrival. This data uses time series data from January 2014 – December 2014. Based on the result it can be seen that shipping has positive moderate correlation to the late materials arrival. A ranking of the late materials arrival on 5 factors are based on the acquisition value RI (Relative Index) and the highest data analysis techniques used to find the most influential sub factors in each factor is the analysis of the factor scores. The results showed that the dominant factor causing delay in the arrival of the goods is a factor shipping with RI value of 0.30, factor system with RI value at 0.23, the factors surrounding the RI value of 0.18, the skill factor with a value of RI 0.15, and supplier factors with a value of RI at 0.11. As for the value sub factors most

influential factor 5 late arrival materials based on analysis of the factors are the holiday season, airway bill, incoterms and custom clearance.

Keywords: Causes of late materials arrival, Ishikawa Diagram, RI analysis, Score factor analysis.





DEDICATION

This thesis is dedicated to my beloved mother and father, who thought me the best kind of knowledge, always support me with their love, believe in me and encourage me not to give up in everything therefore I could finished the thesis.



ACKNOWLEDGEMENTS

First of all, I would like to thank Allah SWT for the blessing in my life and giving me a chance to finish my thesis. I dedicate this to my precious family who always surrounding me with their love, giving me the best attention and continuous support whenever I need. I am so thankful to my beloved mother Yati Diharjo & my beloved father Arvid Brauti.

I would like to express my appreciation to my honorific advisor, Mr. Junaidi Sinaga, MBA and Co-Advisor Dr.rer.nat. Linus Pasasa for spending time during my work on the thesis and giving me the best knowledge to fulfill my desire and to overcome every difficulty I encountered. Thanks to Miss Jane E. Sweed and Mr. Justin Peter Harrison for their assistance with the grammar corrections.

In this opportunity, I would like to extend my gratitude and appreciation to Mr. Bill Bradshaw (President Director of PT. XYZ Indonesia), Mr. Chris Evans (Vice President Director), Miss Lyn Harahap (Head of Human Resources) for the opportunity that she gave me permission to collect data for thesis purpose also to be an intern within this company, thanks also to Human Resource team. I would also thanks to Purchasing department especially Miss Sri Martuti (Head of Purchasing) and Miss Freshty Nur Sinta, they also make time for me to teach me about purchasing and import process in this company, always answer my question and agree to be interviewed.

Thanks to my best friend Lestari Simangunsong, my boyfriend Tomasz Stanko, for always supporting me in every process of this thesis. My classmate of International Business especially Khairunnisa, Dini Syiefa, Felicia Marcellina and Irene Chandra, they always provide me with happiness and spirit in every semester. Last but not least, I would like to thank Swiss Germany University (SGU) for being a good place to learn and acquire knowledge.

TABLE OF CONTENTS

STATEMENT BY THE AUTHOR	2	
ABSTRACT	3	
DEDICATION	6	
ACKNOWLEDGEMENTS	7	
TABLE OF CONTENTS.		
LIST OF FIGURES		
LIST OF TABLES		
LIST OF GRAPHS	11	
CHAPTER 1 - INTRODUCTION	12	
1.1 Background		
1.2 Research Problem	15	
1.3 Research Question	15	
1.4 Research Purpose	15	
1.5 Scope Of Limitation.	15	
1.6 Significant Of Study	15	
1.7 Thesis Structure	16	
CHAPTER 2 – LITERATURE REVIEW		
2.1 Framework Of Thinking	17	
2.2 Cause and Effect Theory	17	
2.2.1 Ishikawa Diagram	17	
2.2.2 Cause and Effect Matrix	20	
2.2.3 Shipping	21	
2.2.4 System	24	
2.2.5 Surrounding	28	
2.2.6 Skills	29	
2.2.7 Safety	29	
2.2.8 Supplier	30	
2.3 Import Process	30	
2.4 Supply Chain Management	31	
2.5 Lead-Time	33	
2.6 Previous Studies	34	

CHAI	PTER 3 – RESEARCH METHODS	39
3.1	Research Process	39
3.2	Research Type	40
3.3	Type of Data	41
	3.3.1 Primary Data	41
	3.3.2 Secondary Data	42
3.4	Data Collection	42
3.5	Populations and Sample	42
	3.5.1 Sample Size	43
	3.5.2 Sample Determination	43
3.6	Research Model	45
3.7	Research Question and Proposition	46
	3.7.1 Research Question	46
	3.7.2 Research Proposition	46
3.8	Data Analysis	46
	3.8.1 Cause and Effect Matrix	46
	3.8.2 Relative Index	46
	3.8.3 Pareto Diagram	47
CHAI	PTER 4 – RESULTS AND DISCUSSIONS	49
4.1	Company Profile	49
	4.1.1 Services	49
	4.1.2 Products.	
	4.1.3 Mission, Vision, and Goals	53
	4.1.4 Commitments	54
4.2	Procurement Process Done by PT XYZ Indonesia	56
4.2	Gantt Chart Result	57
4.2	Data Analysis Result	59
4.3	Steps of Data Processing.	59
	4.3.1 Calculations of Relative Index	62
	4.3.2 An Analysis of Matrix and Ishikawa Diagram	62
	4.3.3 Pareto Diagram	65
CHAI	PTER 5 – CONCLUSION AND RECCOMENDATIONS	71
5.1	Conclusion	71
5.2	Recommendations	72
	5.2.1 Managerial	72

ANALYSIS ON THE CAUSES OF LATE MATERIALS ARRIVAL FOR AUSTRALIAN	Page 10 of 86
EMBASSY CONSTRUCTION PROJECT IN JAKARTA (A CASE STUDY OF PT. XYZ INDONESIA)	_
GLOSSARY	74
REFERENCES	78
CURRICULUM VITAE	88

