# APPLYING RELATIONSHIP MANAGEMENT IN DEVELOPING CARRIER EVALUATION CRITERIA IN PT X

# FINAL ASSIGNMENT Submitted as One of Requirements to Accomplish Bachelor Degree (S1)



CHEMILIA GEMILANG BEKTI 1071001158

BACHELOR PROGRAM (S1) MANAGEMENT PROGRAM UNIVERSITAS BAKRIE JAKARTA 2011

### **ORIGINALITY STATEMENT**

The material in this *skripsi* is my own work and to the best of my knowledge it contains no materials previously published or written by another person, except where due acknowledgement is made in the *skripsi* itself.

 Name
 : CHEMILIA GEMILANG BEKTI

 NIM
 : 1071001158

 Signature
 : Output

 CHEMILIA @. BEKTI

 Date
 : February, 2011

#### ENDORSEMENT PAGE

This skripsi is prepared and presented by

Name	: CHEMILIA GEMILANG BEKTI
NIM	: 10710011158
Program	: Management (S1)
Title of Skripsi	: APPLYING SUPPLIER RELIATIOSHIP MANAGEMENT IN
	DEVELOPING CARRIER CRITERIA IN PT X

Has been approved by the Board of Examiners and accepted as a partial fulfillment of the requirements for the degree of Bachelor of Economics in Management Program, Universitas Bakrie.

### Board of Examiners

S

		( Ronh
Advisor I	: Tri Susanto, SE, MT	(A)
Advisor II	: Ir. Aurino Rilman Djamaris, MM	( Jugar)
		-
Examiner I	:Ir. Deddy Herdiansjah, M.Sc, MBA, Ph.D	
Examiner II	: Achmad Sutawidjaya, M.Com, M.Phil, DB	+++++,

Authorized in : Jakarta

Date : February, 2011

#### DECLARATION OF PARTIAL COPYRIGHT LICENSE

As student of Universitas Bakrie, I hereby:

Name	: Chemilia Gemilang Bekti
NIM	: 1071001158
Program	: Management (S1)
Bachelor thesis	: Case Study

The author, whose copyright is declared on the title page of this work, agree and grant Universitas Bakrie a non-exclusive royalty free right for educational and academic endeavor with my title of *skripsi*:

# APPLYING SUPPLIER RELATIONSHIP MANAGEMENT IN DEVELOPING CARRIER EVALUATION CRITERIA IN PT X

With the granted permission to use this material, Universitas Bakrie is allowed to keep or make digital copy, communicate, and publish this *skripsi* by providing full acknowledgement of the copyright and the source of the material.

It is understood that copying and publication of this work for financial gain shall not be allowed without the written permission. The original Partial Copyright License attesting to these terms, and signed by this author, may be found in the original bound copy of this work, retained in the Universitas Bakrie Archive.

Authorized in: Jakarta

Date: February, 2011

Approved by

Chemilia Gemilang Bekti

# APPLYING RELATIONSHIP MANAGEMENT IN DEVELOPING CARRIER EVALUATION CRITERIA IN PT X

Chemilia Gemilang Bekti<sup>1</sup>, Tri Susanto, SE, MT<sup>2</sup>, Ir. Aurino Rilman Djamaris, MM<sup>3</sup>

### ABSTRACT

This research presents a state of the art to the carrier evaluation problem in one of Logistic Company in Indonesia. The principal problems are caused by the shortcomings in current criteria being used, incomprehensive of current criteria, and unproper weight for each criteria. To solve this problem, this research showed the essential approach which can help to define the problem and purpose what criteria essential to the carrier evaluation including weigth in each criteria. The approach are using tree diagram and analytical hierarchy process method. Besides, the previous literature and benchmark to another logistic company also become one of the data sources. This research aim to find out the root causes of current criteria's problems and develop current carrier evaluation criteria in PT X.

Key words: carrier evaluation, analytic hierachy process, problem tree diagram, supplier relationship management, transportation, inbound.

<sup>&</sup>lt;sup>1</sup> Student of Management Program at Universitas Bakrie

<sup>&</sup>lt;sup>2</sup> Lecturer at Universitas Bakrie

<sup>&</sup>lt;sup>3</sup> Lecturer at Universitas Bakrie

### TABLE OF CONTENTS

COVER PAGE	İ
ORIGINALITY STATEMENT	iii
ENDORSEMENT PAGE	iv
ACKNOWLEDGEMENTS	v
DECLARATION OF PARTIAL COPYRIGHT LICENSE	vii
ABSTRACT	viii
TABLE OF CONTENTS	ix
LIST OF TABLES	xi
LIST OF FIGURES	xii
LIST OF ATTACHMENTS	xiii
CHAPTER I INTRODUCTION	1
1.1 Background	1
1.2 Problem Identification	4
1.3 Scope	4
1.4 Research Purpose	5
1.5 Research Benefit	5
1.6 Writing Systematic	6
CHAPTER II LITERATURE REVIEW	7
2.1 Theortical Background	7
2.1.1 Logistics	7
2.1.2 Transportation	10
2.1.3 Supplier Evaluation	11
2.1.4 Evaluation Criteria	12
2.1.5 Supplier Relationship Management	19
2.2 Previous Literature Study	
2.3 Conceptual Framework	
CHAPTER III RESEARCH METHODOLOGY	28
3.1 Research Mode	
3.2 Research Location	28
3.3 Research Object	
3.4 Data Source	29

3.5 Data Collection	30
3.6 Measurement Scale	30
3.7 Operational Research Variable	31
3.8 Data Analysis Tool	33
3.8.1 Tree Analysis Diagram	33
3.8.2 Analytic Hierarchy Process	35
3.9 Methodology Framework	39
CHAPTER IV RESULTS AND IMPLICATION	40
4.1 Research Object Description	40
4.2 Problem Tree Diagram	40
4.2.1 First Level Cause	41
4.2.2 Second Level Cause	44
4.2.3 Third Level Cause	45
4.2.4 Fourth Level Cause	47
4.2.5 First Level Effect	48
4.3 Analytich Hierarchy Process	50
4.3.1 Data Processing for Developing Carrier Evaluation Criteria	51
4.3.2 Planning Criteria's Alternative Data Processing	54
4.3.3 Availability, Flexibiliy, and Dependability Criteria's Data Processing	56
4.3.4 Information Sharing Criteria's Alternatives Data Processing	58
4.3.5 Cost Focus Criteria's Alternatives Data Processing	59
4.3.6 Quality Criteria's Alternatives Data Processing	61
4.3.7 Service Criteria's Alternatives Data Processing	62
4.3.8 General Criteria's Alternatives Data Processing	64
4.3.9 Overall Consistency Test	66
CHAPTER V SUMMARY AND FUTURE RECOMMENDATION	68
5.1 Summary	68
5.2 Future Directions	69
BIBLIOGRAPHY	71

### LIST OF TABLES

.

Table 2.1 Dickson's Supplier Selection Criteria	13
Table 2.2 Example of Performance Matrix	14
Table 2.3 Previous Literature	20
Table 3.1 Meassurement Scale	31
Table 3.2 Development of Carrier Evaluation Criteria	32

## LIST OF FIGURES

Figure 2.1 Integrated Logistic	7
Figure 2.2 Overview of Logistic System	9
Figure 2.3 Supplier Relationship Diagram	19
Figure 2.4 Conseptual Framework	
Figure 3.1 Flow Chart of Making Three Analysis Diagram	33
Figure 3.2 Criteria Hierarchy	
Figure 3.3 Research Methodology Framework	39
Figure 4.1 Tree Analysis Diagram of Current Evaluation Result	41
Figure 4.2 Current Criteria's Weight	42
Figure 4.3 Carrier Evaluation Criteria Hierarchy	52
Figure 4.4 Alternatives Planning Hierarchy	55
Figure 4.5 Availability, Flexibility, and Dependability Criteria's Al	ternatives
Hieararchy	57
Figure 4.6 Information Sharing Criteria's Alternatives Hierarchy	58
Figure 4.7 Cost Focus Criteria's Alternatives Hierarchy	60
Figure 4.8 Quality Criteria's Weight Hierarchy	61
Figure 4.9 Service Criteria's Alternatives Hierarchy	63
Figure 4.10 General Critiria's Alternatives Hierarchy	65
Figure 4.11 Developed Hierarchy of Carrier Evaluation Critiera	66

# LIST OF APPENDIX

Appendix1. Form of Questionnaire	. 63
Appendix2. Questionnaire Result	. 67
Appendix3. Calculating Weight of Criteria	. 68
Appendix 4. Calculating Planning Criteria's Alternatives	. 73
Appendix5.Calculating Alternative of Availability, Flexibility, and Dependabilit	y
	. 76
Appendix 6. Calculating Information Sharing Criteria's Alternatives	. 79
Appendix 7. Calculating Weight of Cost Focus Criteria's Alternatives	. 82
Appendix 8. Calculating Quality Criteria's Alternatives	. 85
Appendix 9. Calculating Weight of Service Criteria's Alternatives	. 89
Appendix 10. Calculating Weight of General Criteria's Alternatives	. 93
Appendix 11. Consistency Ratio for Overall Weight	. 96