

TABLE OF CONTENTS

AUTHENTICITY STATEMENT	Error! Bookmark not defined.
THESIS APPROVAL OF SUPERVISOR	Error! Bookmark not defined.
THESIS APPROVAL OF EXAMINATION COMMITTEE	iv
MOTTO	v
PREFACE	vi
ABSTRACT	viii
CHAPTER I INTRODUCTION	1
1.1 Background.....	1
1.2 Research Question.....	3
1.3 Research Objectives	4
1.4 Research Scope	4
1.5 Research Benefit	4
1.6 Systematical Writing.....	4
CHAPTER II LITERATURE REVIEW	6
2.1 Inductive study.....	6
2.2 Deductive Study.....	12
CHAPTER III RESEARCH METHODOLOGY	29
3.1 Research Object	29
3.2 Research Flow.....	29
3.4 Types of Data.....	31
3.5 Data Collection Method	31
3.6 Data Processing.....	32
3.7 Result Analysis	33
3.8 Conclusion and Recommendation	33
CHAPTER IV DATA COLLECTING AND DATA PROCESSING	34
4.1 Data collecting	34
4.2 Data Processing.....	39
CHAPTER V DISCUSSION	50
CHAPTER VI CONCLUSION & SUGGESTION	52
6.1 Conclusion.....	52
6.2 Suggestion	53
REFERENCES	54
APPENDIX	57

LIST OF TABLES

Table 2.1 Studies Comparison	10
Table 2.2 Relatives Score.....	20
Table 2.3 Example of Pairwise Comparison Matrix.....	21
Table 2.4 Random Index Value.....	24
Table 2.5 TFN 1-9 Scale.....	27
Table 4.1 Pairwise comparison rating scale.....	38
Table 4.2 Criteria Comparison Matrix R1.....	40
Table 4.3 Normalization result.....	40
Table 4.4 Total weight matrix.....	41
Table 4.5 Eugen vector.....	41
Table 4.6 Matrix Multiplier.....	42
Table 4.7 Eugen Value.....	42
Table 4.8 Random index value.....	43
Table 4.9 Criteria comparison matrix before TFN.....	44
Table 4.10 Criteria comparison matrix after TFN.....	44
Table 4.11 Geometric mean result.....	45
Table 4.12 Fuzzy weights result.....	45
Table 4.13 Defuzzyfication result.....	46
Table 4.14 Normalization result.....	47
Table 4.15 Criteria geometric mean.....	47
Table 4.16 Geometric mean of price sub criteria.....	48
Table 4.17 Geometric mean value of supplier 1.....	48
Table 4.18 Geometric mean value of Supplier 2.....	48
Table 4.19 Geometric mean value for Supplier 3.....	49
Table 4.20 Decision Making.....	49

LIST OF FIGURES

Figure 2.1 Basic supply chain model.....	13
Figure 2.2 Hierarchical Structure.....	19
Figure 2.3 Triangular Fuzzy Number.....	26
Figure 3.1 Flowchart of Research.....	30
Figure 4.1 Hierarchy problem.....	39
Figure 5.1 Graph of alternative weight.....	51