

TABLE OF CONTENTS

AUTHENTICITY STATEMENT	ii
THESIS APPROVAL OF SUPERVISOR	iii
THESIS APPROVAL OF EXAMINATION COMMITTEE	iv
DEDICATION PAGE	v
MOTIVATION PAGE	vi
PREFACE	vii
ABSTRACT.....	viii
TABLE OF CONTENTS.....	ix
LIST OF TABLES.....	xi
LIST OF FIGURES	xii
1 CHAPTER I: INTRODUCTION	1
1.1 Background	1
1.2 Problem Formulation	4
1.3 Objectives of Research.....	4
1.4 Scope of Problem	4
1.5 Benefits of Research	4
1.6 Systematical Writing.....	5
2 CHAPTER II: LITERATURE REVIEW	7
2.1 Inductive Study	7
2.2 Deductive Study	11
2.2.1 SWOT Analysis	11
2.2.2 IFE and EFE.....	12
2.2.3 Fuzzy Logic	14
2.2.4 Linguistic Variable	16
2.2.5 TOPSIS Method.....	17
3 CHAPTER III: RESEARCH METHODOLOGY	20
3.1 Research Object	20

3.1.1	Research Location.....	20
3.1.2	Focus of the Research	20
3.2	Literature Review	20
3.3	Data Collection Method	20
3.4	Data Processing.....	22
4	CHAPTER IV: DATA COLLECTION AND PROCESSING	24
4.1	Data Collection.....	24
4.1.1	Company Profile	24
4.1.2	SWOT Factor	26
4.1.3	IFE and EFE.....	27
4.1.4	SWOT Strategy.....	32
4.1.5	Fuzzy TOPSIS	34
4.2	Data Processing.....	35
4.2.1	Fuzzy TOPSIS	35
5	CHAPTER V: DISCUSSION	44
5.1	SWOT Analysis	44
5.2	Selection of Business Strategy using SWOT and Fuzzy TOPSIS	46
6	CHAPTER VI: CONCLUSION AND RESULT	48
6.1	Conclusion.....	48
6.2	Recommendation.....	49
	REFERENCES	50

LIST OF TABLES

Table 2.1 Research position.....	10
Table 2.2 SWOT table	12
Table 2.3 Linguistic variable	17
Table 4.1 Table of Strengths.....	26
Table 4.2 Table of Weakness.....	26
Table 4.3 Table of Opportunities.....	27
Table 4.4 Table of Threats.....	27
Table 4.5 Table of Internal Factor Weight	27
Table 4.6 Table of Normalized Factor Weight	28
Table 4.7 Table of Internal Factor Rating.....	29
Table 4.8 Table of External Factor Weight	29
Table 4.9 Table of Normalized External Factor Weight	30
Table 4.10 Table of External Factor Rating	30
Table 4.11 IFE Matrix	31
Table 4.12 EFE Matrix	31
Table 4.13 SO Strategy.....	33
Table 4.14 Linguistic Variable	34
Table 4.15 Rating of Strategy and All Factor.....	35
Table 4.16 Rating of Strategy and All Factor.....	35
Table 4.17 Triangular Fuzzy Number.....	35
Table 4.18 Fuzzy ratings of Strategy and All Factor.....	36
Table 4.19 Ratings after defuzzified.....	37
Table 4.20 Normalized decision matrix.....	38
Table 4.21 Weighted normalized decision matrix.....	39
Table 4.22 Benefit / Cost of the factor.....	39
Table 4.23 Positive ideal and negative ideal solution.....	40
Table 4.24 Separation from positive ideal (D+)	41
Table 4.25 Result of separation from positive ideal (D+)	41
Table 4.26 Separation from negative ideal (D-)	42
Table 4.27 Result of separation from negative ideal (D-)	42
Table 4.28 Relative closeness to ideal solution	43

LIST OF FIGURES

Figure 2.1 SWOT Diagram.....	13
Figure 2.2 Triangular Fuzzy Number	15
Figure 2.3 Membership function of triangular fuzzy number (TFN)	16
Figure 3.1 Data collection timeline.....	21
Figure 3.2 Research process flowchart	22
Figure 4.1 Quadrant Diagram	32