CONTENTS

	P	age
ACKNOWLE	EDGEMENT	c
ABSTRACT	IN THAI	d
ABSTRACT	IN ENGLISH	e
LIST OF TAI	BLES	k
LIST OF FIG	URE	n
LIST OF AB	BREVATION/SYMBOL/GLOSSARY	0
STATEMEN'	T OF ORIGINALITY IN ENGLISH	W
CHAPTER 1	INTRODUCTION	1
1.1	Background and the Importance of the Problem	1
1.2	Research Questions	8
1.3	Objectives of the Research	8
1.4	Scopes of the Research	8
1.5	Definition	9
1.6	Benefits of the Research	10
CHAPTER 2	REVIEW OF LITERATURE	11
2.1	Educational Quality Assurance	12
2.2	Research and Development of Assessment Model	60
2.3	Bilingual School	73
CHAPTER 3	METHODOLOGY	82
3.1	Phase 1 The synthesis and quality checking of standards and indicator	
Δ	on education quality in Bilingual School on Early Childhood	
	Education Level	83
	Sample Group	91
	Tools used in research	95
	Data Collection	97
	Data Analysis	98

CONTENTS (CONTINUED)

		Page
3.2	Phase 2 The construction and development of Internal Assurance	
	model in Bilingual school on Early Childhood Education Level	101
	Sample Group	104
	Tools used in research	104
	Data Collection	105
	Data Analysis	105
3.3	Phase 3 The study of the implication of the trial-use of	
	Internal Assurance model in Bilingual School on Early	
	Childhood Education Level	108
	Sample Group	112
	Tools used in research	112
	Data Collection	112
	Data Analysis	112
CHAPTER 4	RESULT OF DATA ANALYSIS	115
4.1	Part 1 Synthesis of the result of standards and indicators of	
	Internal Educational quality assurance for Bilingual School in Early	
	Childhood Education Level	116
4.2	Part 2 The result of model construction and development of	
ล	Internal Educational Quality Assurance for Bilingual School in	
0	Early Childhood Education Level	130
4.3	Part 3 The study of result of the trial of the model on Internal	
/	Educational Quality Assurance for Bilingual School in Early	
	Childhood Education Level	137
CHAPTER 5	SUMMARY, DISCUSSION AND SUGGESTION	147
5.1	Summary of Research	147
5.2	Discussion of Research	147
5.3	Suggestion	153

CONTENTS (CONTINUED)

Pa	age
REFERENCES 1	155
BIBLIOGRAPHY	166
APPENDICIES 1	167
APPENDIX A Expert Directory	168
APPENDIX B Tools used in research	174
APPENDIX C The result of quality analysis of research tools	191
APPENDIX D Result of research analysis	197
APPENDIX E Synthesized result, development of standards and indicators	
in Internal Quality Assurance for Bilingual School in Early	
Childhood Education Level	212
APPENDIX F Model handbook of Internal Educational Quality Assurance	
for Bilingual School in Early Childhood Education Level 1	189
APPENDIX G Internal Evaluation Result by Internal Educational Quality	
Assurance Model for Bilingual School in Early Childhood	
Education Level with the original affiliation of sample	
schools group	204
CURRICULUM VITAE	231
ลิขสิทธิ์แหาจิทยาลัยเหียกใหม่	

LIST OF TABLES

	P	age
Table 2.1	The results from the synthesis of the inside quality insurance pattern	29
Table 2.2	The results of the problems analysis of the inside educational	
	quality insurance researches	32
Table 2.3	Synthesis of the result of standards of internal educational quality	
	assurance for Bilingual Schools in Early Childhood Education Level (1)	53
Table 2.4	Synthesis of the result of standards of internal educational quality	
	assurance for Bilingual Schools in Early Childhood Education Level (2)	54
Table 2.5	Synthesis of the result of indicators of internal educational quality	
	assurance for Bilingual Schools in Early Childhood Education Level	28
Table 3.6	Value of KMO and Bartlett's Test1	85
Table 3.7	The coefficient of correlation of variables in factors on	
	educational management.	87
Table 3.8	The coefficient of correlation of variables in factors on physical and	
	intellectual development of student.	88
Table 3.9	The coefficient of correlation of variables in factors on general	
	Managementl	89
Table 3 10	The coefficient of correlation of variables in factors on	
14010 3.10	efficient and effective performance of teachers.	89
Table 3.11	The coefficient of correlation of variables in factors on	0)
14010 3.11	efficient and effective performance of administrator.	90
Table 3.12	The coefficient of correlation of variables collaborating major factors on	70
14010 3.12	self-care and social interactions in multicultural social group of students.	90
Table 3 13	The coefficient of correlation of variables in factors on	70
14010 3.13	emotion and mindset of student.	91
Table 3.14	The coefficient of correlation of variables in factors on	71
1 aut 3.14		91
	quality in teaching and promotion.	71

LIST OF TABLES (CONTINUED)

		Page
Table 3.15	The number of population and sample group in the research	92
Table 3.16	Number and percent of basic data in sample group for Exploratory	
	factor analysis.	93
Table 3.17	Number and percentage of basic data in sample group for	
	Second-order Confirmatory Analysis.	94
Table 3.18	Implementation Plan for the trial use of the Internal Assurance	
	Model in Bilingual School on Early Childhood Education level in	
	Internal Quality Assessment Part.	109
Table 4.19	The revision result of standards and indicators based on suggestion	
	from experts.	117
Table 4.20	Eigen Value, Percentage of Variance and	
	cumulative percent of Variance in each factor	119
Table 4.21	The result from 2 nd . Order CFA of Internal Educational Quality	
	Assurance Model for Bilingual school in Early Childhood Education	
	Level (The First level).	120
Table 4.22	Mean, Standard deviation and the level of expert's opinion	
	upon utility of the model.	133
Table 4.23	Mean, Standard deviation and the level of expert's opinion	
	upon feasibility of the model.	134
Table 4.24	Mean, Standard deviation and the level of expert's opinion	
	upon propriety of the model.	135
Table 4.25	Mean, Standard deviation and the level of expert's opinion	
	upon accuracy of the model.	136
Table 4.26	Mean, Standard deviation and the level of sample group opinion	
	about utility on the model.	139
Table 4.27	Mean, Standard deviation and the level of sample group opinion	
	about feasibility on the model.	141

LIST OF TABLES (CONTINUED)

	Page
Table 4.28 Mean, Standard deviation and the level of sample group opinion	
about propriety on the model.	142
Table 4.29 Mean, Standard deviation and the level of sample group opinion	
about accuracy on the model.	144
Table 4.30 The correlation between original affiliation assessment score	
and the model assessment score from sample group.	146
AI UNIVERSITA	
ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่ Copyright [©] by Chiang Mai University All rights reserved	

LIST OF FIGURES

		Page
Figure 2.1	Process of operation continuously according "PDCA" cycle.	20
Figure 2.2	Relationship of the Educational Quality Assurance processes.	23
Figure 2.3	Example of the process of the operation from PDCA cycle	
	that are working at the same time.	25
Figure 2.4	Balance Scorecard Concept.	26
Figure 2.5	The connections between the inside quality insurance and	
	the outside quality assessment.	28
Figure 2.6	The inside relations between 3 variables with the aime-study attributes	43
Figure 2.7	Steps of Research and Development	61
Figure 2.8	The cycle of research and development (R&D Cycle of Borg)	63
Figure 2.9	The cycle of research and development of innovation	
	(R&D cycle by Rungrod Kaewurai	65
Figure 2.10	The step of classroom research by Research and development concept	66
Figure 2.1	1 The step to construct the model	68
Figure 2.12	2 The concept diagram of research	73
Figure 3.1	Synthesis Chart of standards and indicators of Internal Educational	
	Quality Assurance for Bilingual school in Early Childhood	
	Education Level.	100
Figure 3.2	The construction and development of Internal Assurance Model in	
	Bilingual school in Early Childhood Education Level.	107
Figure 3.3	Study of the implication of the trial-use of Internal Assurance	
	Model in Bilingual school on Early childhood Education level.	114
Figure 4.1:	5 The Second-Order Confirmatory Factor Analysis (2nd. Order CFA)	
	result of standards and indicators of Internal Assurance model in	
	Bilingual Schools on Early Childhood Education Level.	129
Figure 4.10	6 Internal Educational Quality Assurance model for Bilingual	
	Schools in Early Childhood Education Level.	131

LIST OF ABBREVATION

ONESQA. Office for National Education Standards and Quality Assessment.

S. Standard.IND. Indicator.

Model The Internal Educational Quality Assurance Model for Bilingual School

in Early Childhood Education Level.

OBEC Office of the Basic Education Commission of Thailand.



LIST OF SYMBOLS

\bar{x}	means Arithmetic Mean.		
SD.	means Standard Deviation.		
b	means Factor loading.		
SE	means Standard error.		
\mathbb{R}^2	means Coefficient of determination.		
FS	means Factor Score Regressions.		
df	means Degrees of freedom.		
P	means Level of Significant.		
χ^2	means Chi-Square Value.		
GFI	means Goodness of Fit Index.		
AGFI	means Adjust goodness of Fit Index.		
RMR	means Root Mean Squared Residual.		
RMSEA	means Root Mean Squared Error of Approximation.		
0	means Latent Variable.		
	means Observable Variable.		
\longrightarrow	means Causal relationship among latent and observable variable		
X2	means standard 1 Physical and intellectual development of		
	Students.		
St1.1	means Indicator 1.1 Students have standard weight and height.		
St1.2	means Indicator 1.2 Students have movement skills according to their ages.		
Sb2.4	means Indicator 2.4 Students can appropriately control their		
	emotion according to their ages.		
Ss3.1	means Indicator 3.1 Students have discipline and responsibility		
	for the assigned task.		
Ss3.2	means Indicator 3.2 Students obey to the instruction of parents		
	and teachers.		
Ss3.3	means Indicator 3.3 Students are honest.		

S	Ss3.4	means Indicator 3.4	Students are generous and munificent.
S	Ss3.5	means Indicator 3.5	Students can play and work with others in
			unity.
S	Sr4.1	means Indicator 4.1 S	Students have interest, eager and love
		1	earning.
	Sr4.2	means Indicator 4.2 S	Students have a concept from learning
		6	experience.
S	Sr4.3	means Indicator 4.3 S	Students have appropriate Thai language
		S Slave	skills for their ages.
	Sr4.4	means Indicator 4.4	Students have appropriate English language
	// 8	9. /	skills for their ages.
S	Sr4.5	means Indicator 4.5 S	Students have science and mathematics
	30		processing skills.
S	Sr4.6	means Indicator 4.6 S	Students have imagination and creativity.
S	Sr4.7	means Indicator 4.7 S	Students have appropriate problem solving
	1/ 5	S	kills
2	X6	means Standard 2 Stu	idents have self-care and interaction in
		cu	ltural society
S	St1.3	means Indicator 1.3	Students have hygiene in their health care
	St1.4	means Indicator 1.4 S	Students avoid conditions that have risks
	00.		bout diseases, accidents, and drugs.
,	St1.5	means Indicator 1.5 S	Students have no illness/condition that
	Copyri	ght [©] by Cli	affects their development.
\$	Ss3.6		Students interact with each other with quality.
Š	Ss3.7	means Indicator 3.7 S	Students have respect for cultural
		d	ifferences.
S	Ss3.8	means Indicator 3.8 S	Students behave based on Thai cultures and
		tl	neir religions.
2	X7	means Standard 3 Stu	ident have emotions and mentality
		de	velopment.

Sb2.1	means Indicator 2.1 Students are cheerful.			
Sb2.2	means Indicator 2.2 Students feel good about themselves.			
Sb2.3	means Indicator 2.3 Students are confident and assertive.			
Sb2.5	means Indicator 2.5 Students appreciate art, music, movement,			
	and nature.			
X4	means Standard 4 Teacher performance have efficient and			
	effective.			
T5.1	means Indicator 5.1 Teachers understands the philosophy,			
	principles, and nature of childhood			
	education and can apply their experience in			
	teaching.			
T5.2	means Indicator 5.2 Teachers make lesson plans according to			
30	the childhood bilingual curriculum.			
T5.3	means Indicator 5.3 T eachers can provide various learning			
	experience corresponding to students			
1/ 5	differences.			
T5.4	means Indicator 5.4 Teachers manage classroom supporting			
	positive discipline.			
T5.5	means Indicator 5.5 Teachers uses media and technology			
	appropriate to students' development.			
T5.6	means Indicator 5.6 Teachers assess students' development by a			
ลขสา	variety of measurement and evaluation.			
T5.8	means Indicator 5.8 Teachers provides a learning environment			
AII	for all time.			
T5.9	means Indicator 5.9 Teachers have good interaction with students			
	and parents.			
T5.10	means Indicator 5.10 Teachers are qualified and competent in the			
	field of childhood education.			
T5.11	means Indicator 5.11 Teachers have ethics and responsibility in			
	their duty.			
T5.12	means Indicator 5.12 Teachers accept cultural differences.			

	means Standard 5 Teacher quality promotion.
T5.7	means Indicator 5.7 Teachers conducts researches and develops
	learning management.
T5.13	means Indicator 5.13 The number of Thai and foreign teachers is
	sufficient to students (The ratio is 1 Thai
	and 1 foreign teacher: 20 students).
T5.14	means Indicator 5.14 Teachers can academically communicate in
	their native and second languages.
X5	means Standard 6 Administrators performance have efficient
	and effective.
M6.1	means Indicator 6.1 The administrator understands the philosophy
	and principles of childhood education.
M6.2	means Indicator 6.2 The administrator has vision, leadership, and
	initiatives in developing childhood students.
M6.3	means Indicator 6.3 The administrator uses the principle of
	participatory management and uses data
	evaluation or research as the basement of
	academics and management.
M6.4	means Indicator 6.4 The administrator can manage education to
	achieve the goals of quality development
	plan.
M6.5	means Indicator 6.5 The administrator supports and develops
Co	human resources to be effective.
M6.6	means Indicator 6.6 The administrator gives academic
/ \	suggestions and advices, and pays attention
	to childhood education with full potentials
	and time.
M6.7	means Indicator 6.7 The administrator has leadership in creating
	an organization of cultures and learning.
X1	means Standard 7 Educational management.

E7.1	means Indicator 7.1	The school has a curriculum for childhood
		education that can lead to efficient practice.
E7.2	means Indicator 7.2	The school has a system and a mechanism
		engaging all parties to understand
		educational management for childhood
		education.
E7.3	means Indicator 7.3	The school has an effective management
	2919	system in giving services.
E7.4	means Indicator 7.4	The school supports participation and
	770	cooperation with parents, society and local.
A8.1	mean Indicator 8.1	The school sets standards of childhood
// 6		education.
A8.2	means Indicator 8.2	The school prepares and proceeds according
Si	3 2	to educational development plan to meet the
		standards of education.
A8.3	means Indicator 8.3	The school prepares an information system
	5	and uses it in management.
A8.4		The school monitors and evaluates the
	MALI	internal quality assessment results based on
	11	standards of education by using
0 0	6 0	participation concept.
A8.5	means Indicator 8.5	The school successively uses internal and
Copyr	ight [©] by Cl	external quality assessment results in
AII	right	improving the quality of education.
A8.6	means Indicator 8.6	The school prepares annual reports on the
		internal quality assessment.
Sc9.1	means Indicator 9.1	The school has a method/procedure to
		encourage participation in learning
		management.
Sc9.2	means Indicator 9.2	The school becomes a place to develop
		learning of students and personnel.

Sc9.3	means Indicator 9.3 The school exchanges knowledge within the
	school, between families, communities, and
	related organizations.
Ob10.1	means Indicator 10.1 The school sets educational management
	process
Ob10.2	means Indicator 10.2 The school organizes projects and activities
	to achieve the goal, philosophy, and vision
	of childhood education.
Ob10.3	means Indicator 10.3 The school successfully achieves the goals.
Ec11.1	means Indicator 11.1 The school sets policy and developmental
	guideline according to the policy and
	educational reform guideline based
	on social context1
Ec11.2	means Indicator 11.2 The school organizes projects and
	activities that support the policy of
	childhood education.
Ec11.3	means Indicator 11.3 The school gives an opportunity to related
	person in setting promoting standards.
Ec11.4	means Indicator 11.4 The school receives standard certification
	from the education committee.
Ec11.5	means Indicator 11.5 The school successfully achieves the goals.
X3	means Standard 8 General management
Sv12.1	means Indicator 12.1 The school has a plan concerning safety
AI	of students.
Sv12.2	means Indicator 12.2 The school has a process and management
	concerning safety and welfare of students.
Sv12.3	means Indicator 12.3 The school arranges location, tools,
	equipment and materials based on the
	safety of students.
Sv12.3	means Indicator 12.3 The school arranges location, tools, equipment and materials based on the

Sv12.4	means Indicator 12.4 School staffs have knowledge and skills to
	provide health services and security to
	students.
Sv12.5	means Indicator 12.5 Students are safe and/or students receive
	health services and security.
Ma13.1	means Indicator 13.1 The school arranges facilities for student
	development.
Ma13.2	means Indicator 13.2 The school arranges the environment
	supporting the potential of self-discovery
	and learning through playing.
Ma13.3	means Indicator 13.3 The school prepares activity and food that
	support the integrity of the body.
Ma13.4	means Indicator 13.4 The school arranges the premises suitable
	for giving services.
	The state of the s

STATEMENT OF ORIGINALITY

The Bilingual school system on Early childhood Education level was an outstanding educational innovation of Thailand founded in 1994 by Office of the Private Education Commission (OPEC). Nowadays, however modern Bilingual schools do not have specific standards, indicators and internal educational assurance model for Quality Control, Quality Audit and Quality Assessment which is crucial and suitable for the contexts of these schools. Due to the issue this research was initiated in order to study and experiment upon the standards, indicators and internal educational assurance model for Quality Control, Quality Audit and Quality Assessment. The research's purpose was to construct and sustain a suitable and efficient Model for the Quality Assurance. In addition, this research leads to a profound development of Bilingual system in Thailand.

Researcher certifies that the content in the research consist of essential studies which are solely done by the researcher and with supervision of the researcher's adviser. The founding of this research originated from reliable data. The researcher certifies that the objective thesis is not aiming to achieve degree in other university apart from CMU.

ข้อความแห่งการริเริ่ม

การจัดการศึกษาแบบสองภาษาในระดับปฐมวัย เป็นนวัตกรรมทางการศึกษาของประเทศไทย ซึ่งได้เริ่มดำเนินการตั้งแต่ปีพุทธศักราช 2537 โดยสำนักงานคณะกรรมการการส่งเสริมการศึกษา ภาคเอกชน กระทรวงศึกษาธิการ (ศธ.) ปัจจุบันการจัดการศึกษาแบบสองภาษายังไม่มีมาตรฐานและ ตัวบ่งชี้ ตลอดจนรูปแบบการประกันคุณภาพการศึกษาภายในที่มีความเฉพาะ เพื่อใช้ในการควบคุม ติดตาม ตรวจสอบและประเมินผลการจัดการศึกษาใน การวิจัยครั้งนี้จึงมุ่งศึกษามาตรฐานและตัวบ่งชี้ คุณภาพการจัดการศึกษาแบบสองภาษา และพัฒนารูปแบบการประกันคุณภาพการศึกษาภายใน สำหรับโรงเรียนสองภาษา ในระดับการศึกษาปฐมวัย ซึ่งเป็นรูปแบบที่มีคุณภาพทั้งในเชิงทฤษฎีและ เชิงการนำไปปฏิบัติ อันจะนำไปสู่การพัฒนาการจัดการศึกษาแบบสองภาษาภายใต้ระบบการศึกษาของประเทศไทย

ผู้วิจัยขอรับรองว่าเนื้อหาในวิทยานิพนธ์ฉบับนี้ เกิดจากการศึกษาก้นคว้าของผู้วิจัยโดยได้รับ คำแนะนำจากอาจารย์ที่ปรึกษา ซึ่งผลการวิจัยได้มาจากแหล่งข้อมูลที่มีความน่าเชื่อถือและได้รับการ ยอมรับและขอรับรองว่าวิทยานิพนธ์ หรือส่วนหนึ่งส่วนใดของวิทยานิพนธ์ฉบับนี้ไม่ได้ถูกเสนอ ขอรับปริญญาในสถาบันการศึกษาอื่น หรือเพื่อวัตถุประสงค์อื่น