The Impact of Physical Evidence on Effect Creation:

Special Reference to Modern Trade Retail Outlets in Sri Lanka

by

C. Ratmayake

M.Sc/MGT/GS/3446/08

M. Sc. 2014

The Impact of Physical Evidence on Effect Creation:

Special Reference to Modern Trade Retail Outlets in Sri Lanka

by

C. Ratnayake M.Sc/MGT/GS/3446/08

Thesis submitted to the University of Sri Jayewardenepura, in partial fulfillment of the requirements for the Degree of Master of Science in Management

I hereby declare that the work described in this thesis was carried out by me under the supervision of Mrs. Sandamali Galdolage, Senior Lecturer, Department of Marketing Management, Faculty of Management Studies & Commerce, University of Sri Jayewardenepura, and a report on this has not been submitted in whole or in part to any university or any other institution for another Degree/Diploma.

Signature : C. Ratnayake

Student No: M.Sc./MGT/GS/3446/08

I certify that the above statement made by the candidate is true and this thesis is suitable for submission to the University for the purpose of evaluation.

Mrs. Sandamali Galdolage

Supervisor

Senior Lecturer

Department of Marketing Management

Faculty of Management Studies & Commerce

University of Sri Jayewardenepura

ACKNOWLEDGEMENT

My profound gratitude to Mrs. Sandamali Galdolage, the Supervisor of my thesis for her immense guidance, support and encouragement. Throughout this thesis, I gained a lot of experience, knowledge and exposure that would benefit me in future.

My gratitude to the Lecturers of the M.Sc. Management Program, Faculty of Management Studies & Commerce, University of Sri Jayewardenepura.

My sincere thanks to my friends Sampath and Hirunika for their valuable support extended to me towards a productive research.

My heartfelt gratitude to my family members for their constant encouragement given to me and my friends who helped me even with a word to make this thesis a success.

My utmost appreciation to the respondents who spent their precious time in responding to the questionnaire of the research.

TABLE OF CONTENTS

CHA	APTER 1 - INTRODUCTION	Page No.		
1.1	Introduction	01		
1.2	Background of the study	01		
1.3	Problem Statement	03		
1.4	Purpose of the Study	05		
1.5	Research Questions	06		
1.6	Research Objectives	07		
1.7	Hypothesis	08		
1.8	Significance of the Study	08		
1.9	Scope of the Study	09		
1.0	Organizing the Chapters	10		
CHA	APATER 2 – LITERATURE REVIEW			
2.1	Introduction	12		
2.2	The Services	12		
2.3	2.3 Importance of Services Sector to the Economy			
2.4	Modern Trade Retail Industry in Sri Lanka	16		
2.5	2.5 Emergence of Supermarkets in Sri Lanka			
2.6	Importance of Physical Evidence for Supermarkets	20		
	2.6.1 Message Creation	21		
	2.6.2 Attention Creation	22		
	2.6.3 Effect Creation	22		
2.7	Physical Evidence in Supermarkets	23		
2.8	Dimensions in Physical Evidence	28		
2.9	Facility Exterior	28		
	2.9.1 External Signage	28		
	2.9.2 Entrance	29		
	2.9.3 Location	30		
	2.9.4 Parking	31		
	2.9.5 Surrounding Stores	33		
	2.9.6 Architectural Style, Colour and Size of Building	33		
	1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.0 CH 2.1 2.2 2.3 2.4 2.5 2.6	1.2 Background of the study 1.3 Problem Statement 1.4 Purpose of the Study 1.5 Research Questions 1.6 Research Objectives 1.7 Hypothesis 1.8 Significance of the Study 1.9 Scope of the Study 1.0 Organizing the Chapters CHAPATER 2 – LITERATURE REVIEW 2.1 Introduction 2.2 The Services 2.3 Importance of Services Sector to the Economy 2.4 Modern Trade Retail Industry in Sri Lanka 2.5 Emergence of Supermarkets in Sri Lanka 2.6 Importance of Physical Evidence for Supermarkets 2.6.1 Message Creation 2.6.2 Attention Creation 2.6.3 Effect Creation 2.6.3 Effect Creation 2.7 Physical Evidence in Supermarkets 2.8 Dimensions in Physical Evidence 2.9 Facility Exterior 2.9.1 External Signage 2.9.2 Entrance 2.9.3 Location 2.9.4 Parking 2.9.5 Surrounding Stores		

			Page No.
	2.10	Facility Interior	34
		2.10.1 Interior Layout	34
		2.10.2 Product Display	35
		2.10.3 Lighting	36
		2.10.4 Music	37
		2.10.5 Temperature	38
		2.10.6 Cleanliness	39
	2.11	Other Facilities	39
		2.12.1 Employee Uniforms	39
		2.12.2 Employee Attitudes	41
		2.12.3 Billing Statement	41
		2.12.4 Brochures & Leaflets	42
	2.12	Effect Creation	43
		2.11.1 Purchase Intention	43
		2.11.2 Revisit Intention	43
		2.11.3 Word of Mouth Awareness	45
		2.11.4 Satisfaction	46
	2.13	Conceptualization	48
	2.14	Conceptual Framework	48
3.0	СНА	APTER 3 - METHODOLOGY	
	3.1	Introduction	50
	3.2	Research Design	50
	3.3	Study Setting	51
	3.4	Type of Investigation	51
	3.5	Sources of Data Collection	52
		3.5.1 Primary Data	52
		3.5.2 Secondary Data	52

			Page No.
	3.6	Sampling Plan	53
		3.6.1 Population of the Study	53
		3.6.2 Sampling Method	53
		3.6.3 Unit of Analysis	53
		3.6.4 Sample Size	53
	3.7	Sample Adequacy	54
	3.8	Operationalization	56
	3.9	The Questionnaire	61
	3.10	Validation of Measurement Properties	63
		3.10.1 Content Validity	63
		3.10.2 Construct Validity	64
	3.11	Reliability Analysis	67
		3.11.1 Reliability	67
	3.12	Data Presentation and Analysis Method	68
4.0	СНА	APTER 04 - DATA PRESENTATION & ANALYSIS	
	4.1	Introduction	69
	4.2	Profile of the Study	69
	4.3	Analysis of Objective One : To Examine the Level of Consumer	78
		Assessment of Physical Evidences in Supermarkets	
	4.4	Analysis of Objective Two: To Investigate the Relationship between	veen 83
		Facility Exterior and Effect Creation in Supermarkets	
	4.5	Analysis of Objective Three: To Investigate the Relationship between	veen 84
		Facility Interior and Effect Creation in Supermarkets	
	4.6	Analysis of Objective Four: To Investigate the Relationship between	ween 85
		Other Facilities and Effect Creation in Supermarkets	
	4.7	Analysis of Objective Five: To Examine the Impact of Physical	86
		Evidence on Effect Creation and Identify the Most Salient	
		Physical Evidence Variable that Influences Effect Creation	
		in Supermarkets	

		Page No.
5.0	CHAPTER 05: RECOMMENDATION	
	5.1 Recommendation	90
	5.2 Further Research	92
6.0	CHAPTER 06: CONCLUSION	
	6.1 Conclusion	94
	6.2 Limitations	96
7.0	REFERENCES	97
8.0	APPENDICES	
	8.1 Questionnaire	101

LIST OF TABLES

		Page No.
Table 1 :	Major supermarkets in Sri Lanka	19
Table 2 :	Components of physical store environment	24
Table 3 :	Atmospheric variable including human variables	26
Table 4 :	Summary of KMO and Bartlett's tests	54
Table 5 :	Summary of Research Design	55
Table 6 :	Dimensions & indicators of facility exterior	56
Table 7 :	Dimensions & indicators of facility interior	57
Table 8 :	Dimensions & indictors of other facilities	59
Table 9 :	Dimensions & indicators of effect creation	60
Table 10:	Exploratory Factor Analysis	64
Table 11:	Inter Item Correlation	65
Table 12	Exploratory Factor Analysis - Effect Creation	66
Table 13:	Reliability Analysis – Total variables	67
Table 14:	Gender of the respondents	69
Table 15:	Age of the respondents	70
Table 16:	Marital Status of the respondents	71
Table 17:	Education level of the respondents	71
Table 18:	Occupation of the respondents	72
Table 19:	Income levels of the respondents	73
Table 20:	Customer preferences on supermarkets	74
Table 21:	Reasons for selecting the supermarket	75
Table 22:	Frequently purchasing items by customers at supermarkets	76
Table 23:	Consumer preferences of supermarkets based on services	77
Table 24:	Consumer assessment of exterior, interior & other	78
	facilities at supermarkets	
Table 25:	One Sample Test	79
Table 26:	Decision criteria	79
Table 27:	Consumer assessment of facility exterior	80
Table 28:	Consumer assessment of facility interior	81

		Tage 110.
Table 29:	Consumer assessment of other facilities	82
Table 30:	Relationship between Facility Exterior and Effect Creation	83
Table 31:	Relationship between Facility Interior and Effect Creation	84
Table 32:	Relationship between Other Facilities and Effect Creation	85
Table 33:	Regression analysis	86
Table 34	Analysis of Variance (ANOVA)	87
Table 35:	Analysis on the Most Salient Physical Evidence Variable	88

LIST OF FIGURES

			Page No
Figure 01	:	Three Component Model	14
Figure 02	•	Conceptual Framework	49
Figure 03		Consumer Assessment of Facility Exterior	80
Figure 04	:	Consumer Assessment of Facility Interior	81
Figure 05	:	Consumer Assessment of Other Facilities	82

ABBREVIATIONS

S.O.R. - Stimulus Organism and Response

W.O.M. - Word of Mouth

ABSTRACT

The supermarket industry in Sri Lanka is growing fast with the change in lifestyle patterns of the citizens from traditional into modern, the increase in female participation in workforce and increase in income levels. The shopping behavior too of consumers has gradually changed to suit their lifestyle patterns, from traditional grocery shops to supermarkets seeking for quality goods with moderate prices and convenience.

The purpose of this research is to find out how physical evidences influence effect creation in supermarkets in Sri Lanka, how the customers experience the service they received from the supermarkets and the products they are offered. The first objective of the study is to find out the general customer behavior in supermarkets. The second objective is to investigate how the elements of physical evidence influence the effect creation and finally to find out the most salient physical evidence variable which influences the effect creation.

In this study, the independent variable; physical evidence consists of three dimensions, namely; Facility exterior, Facility interior and Other facilities. The dependent variable, i.e. effect creation, includes four dimensions; purchase intention, revisit intention, word of mouth promotion and satisfaction.

The answers to the research questions were obtained by conducting a quantitative research. Thus, the empirical work for this study consists of data collected from customers of five supermarket brands in Colombo district. The findings of the research

indicate that consumers prefer convenience. Hence they prefer to do their shopping in a supermarket that located closer to their homes. The consumers mostly buy fast moving consumer goods more than the other items such as vegetables, fish, meat etc.

The findings also indicates that there is a positive moderate impact of physical evidence on effect creation and reveals that the facility interior is the most salient physical evidence variable that influences effect creation in supermarkets.