IMPACT OF MANUFACTURING AND SUSTAINABILITY PERFORMANCE ON FIRM'S SUPPLY CHAIN PERFORMANCE: EMPIRICAL STUDY FROM MANUFACTURING INDUSTRY OF PAKISTAN.

ZAID HASAN

Registration Number: 01-396182-031

Supervisor: Dr Shahzad Ahmad

A Thesis submitted to Department of Management Sciences, Bahria University – Islamabad Campus, in part fulfilment of the requirement for the MS Supply chain Degree



Fall, 2020

Bahria University, Islamabad Campus



MS supply chain Thesis 2nd Half-Semester Progress Report & Thesis Approval Statement

Supervisor – Student Meeting Record

S#	Date	Place of Meeting	Topic Discussed	Signature of Student
1	28/07	Zoom	Literature Review	- CHB
2	06/08	Zoom	Data Analysis	- Charles
3	25/09	Zoom	Final Check	-Ole-

APPROVAL FOR EXAMINATION			
Candidate's Name:	ZAID HASAN	Registra	ation No.:
Thesis Title: Impact of ma	anufacturing and sustainabi	lity performances on	n firm's supply chain
performances: empirical s	study from manufacturing ir	ndustry of Pakistan.	
I hereby certify that the above candidate's thesis has been completed to my satisfaction and, to my belief, its standard is appropriate for submission for examination. I have also conducted plagiarism test of this thesis using HEC prescribed software and found similarity index at % that is within the permissible limit set by the HEC for the MS thesis. I have also found the thesis in a format recognized by the Department of Management Sciences.			
Supervisor's Signature:	DI- Statute damas Manual	Date:	05/10/20
Supervisor's Name:	Dr Shahzad Ahmad		
HoD's Signature:		Date:	

Declaration of Authentication

I, hereby, declare that no portion of the work referred to in this thesis has been submitted in support of any application for another degree or qualification of this university or any other institution of learning.



Student's Signature:

DEDICATION

I dedicate my thesis to my family members and colleagues who encouraged and supported me throughout this research work.

ACKNOWLEDGEMENT

Firstly, I am so thankful to ALMIGHTY ALLAH for His countless blessings. He is the most beneficent and the most merciful. I would have not been able to complete this thesis without His agreement.

Now, I am much obliged to Dr Shahzad Ahmad, who as my thesis supervisor, continuously guided me with his knowledge and experience throughout the completion of this thesis.

I am also very thankful to managerial employees of companies of Manufacturing industry in Karachi and Islamabad for their co-operation in providing data for my thesis.

My family members and colleagues supported me throughout the completion of this thesis, my sincere gratitude to all of them.

ABSTRACT

Supply chain is playing a significant role in almost all the organizations. Especially when we talk about Pakistan as the emerging economy supply chain becomes more important than it was before. Now this idea has become very much prominent that without optimization of supply chain network there would be bigger flaws that could come out as the end result. The studies that were carried out before reflected the buyer's perspective and it was carried out in limited area of manufacturing. Sample size was very specific in the previous studies. and specially when it comes to sustainability and its effect on supply chain performance, Pakistan manufacturing industry is the most untapped and untouched area. In this study we will try to find the relation between suitability and other supply chain functions with supply chain performance. The data was collected through a five-point Liker questionnaire, from which 350 samples of 266 responses from Pakistan's manufacturing industry are obtained. Regression equation modeling was used to analyze data. In this paper, we first proposed a comprehensive conceptual framework to investigate the factors that affect the SCP in the Pakistan manufacturing sectors and then explored the relationships of these factors with the SCP. Based on the main SCPs suggested in the literature— sourcing performance, manufacturing performance, delivery performance, and sustainability performance, a scale was developed to measure the SCP.

We developed five hypotheses of delivery and sourcing performance to test the direct relation with supply chain performances. In which we are rejecting the null hypothesis by accepting the alternative hypothesis as their P Values were less than 0.05 which implies that there is a positive relation of both delivery and sourcing performances with supply chain performances.

Researcher also tested the mediating effects of sustainability performances between sourcing performances and supply chain performances; and delivery performances and supply chain performances, which states that we are accepting our null hypothesis that sustainability performances mediates the relation between both variables with supply chain performances.

Keywords: Supply chain performances (SCP), sustainability performances (STP), Sourcing performances (SP), Delivery performances (DP) and Manufacturing performances (MP)

Contents

CHA	PTE	R 11
INTI	ROD	UCTION1
	1.1	Introduction
	1.2	Background
	1.3	Problem Statement
	1.4	Gap Analysis
	1.5	Research Objectives
	1.6	Research Questions
	1.7	Significance of the Study
	1.8	Scope of the Research7
	1.9	Organization of the Thesis7
	1.10	Definitions
CHA	PTE	R 210
LITE	ERAT	TURE REVIEW10
	2.1	Empirical reviews
	2.2	Sourcing Performances:
	2.3	Manufacturing Performances
	2.4	Delivery Performances:
	2.5	Sustainability Performances
	2.6	Relation of Sourcing performances with manufacturing performances and
	susta	inability performances:
	2.7	Manufacturing performance mediates between sourcing performance and supply
	chair	19 performance
	2.8	Relation Between Delivery Performances and sustainability performances20
	H4: a	lelivery performance is positively related to Supply chain Performances

2.9 Mediating relation of sustainable performance between sourcing performance and	d
delivery performance2	1
2.10 Summary of Literature Review	2
2.11 Research Hypotheses	3
Delivery performance is positively related to sustainability performance	4
Delivery performance is not positively related to sustainability performance	4
2.12 Conceptual Framework	5
Source: Rajesh Katiyar, P.L. Meena, Mukesh Barua, Rajen Tibrewala, Gopal Kumar, (2017)	25
CHAPTER 3	6
Research Methodology	6
3.1 Research Approach & Type2	6
3.2 Research Design	6
3.3 Research Population	6
3.4 Sample Size & Sampling Technique2	7
3.5 Research Instrument	8
3.6 Data Collection	9
3.7 Data Analyses Method2	9
CHAPTER 4	0
Results	0
4.1 Demographic Profile:	0
4.2 Reliability Analyses	1
Explanation of Reliability Analysis:	1
4.3 Hypothesis Testing Using Correlation	2
4.4 Regression Test: Hypothesis 1 and 4	4
4.5 Regression Test: Hypothesis 2 and 3	7
4.6 Regression Test: Hypothesis 5	9
4.7 Summary of Hypotheses Testing4	1
CHAPTER 5	2
Discussion	2
3.1 Discussion	2

3.1.1 Hypothesis's Discussion	
CHAPTER 6	44
Recommendations and Conclusion	44
6.1 Recommendations	44
6.2 Limitations of the Research	46
6.3 Future Research	46
6.4 Conclusion	47
REFERENCES	50

LIST OF FIGURES

Figure-2.1: Theoretical Framework

21

LIST OF TABLES

Table 2.1	Summary of literature review	18
Table 4.1	Count of gender	26
Table 4.2	Count of age group	26
Table 4.3	Count of education	26
Table 4.4	Count of designation	26
Table 4.5	Count of experience	26
Table 4.6	Cronbach's Alpha	27
Table 4.7	Mean and Standard deviation	28
Table 4.8	Correlation	29
Table 4.9	Model Summary	31
Table 4.10	ANOVA	31
Table 4.11	Co-efficient Test	32
Table 4.12	Model Summary	33
Table 4.13	ANOVA	34
Table 4.14	Co-efficient Test	34
Table 4.15	Model Summary	35
Table 4.16	ANOVA	36
Table 4.17	Co-efficient Test	36
Table 4.18	Hypotheses Results Summary	37

LIST OF ABBREVIATIONS

Abbreviation	Full Form
SCP	Supply chain performance
SP	Sourcing Performances
MP	Manufacturing Performances
DP Delivery Performances	
STP	Sustainability Performances