The impact of the cost equalization strategy for the development of non traditional exports in Sri Lanka.



Master of Arts (Economics) Thesis

BM

M. Palitha Ekanayake.

B. Conn. ((Horn)), MBA ((Wiomash University)), DPFM, FPFA (Sni Lanka)

Reg. No. 8466

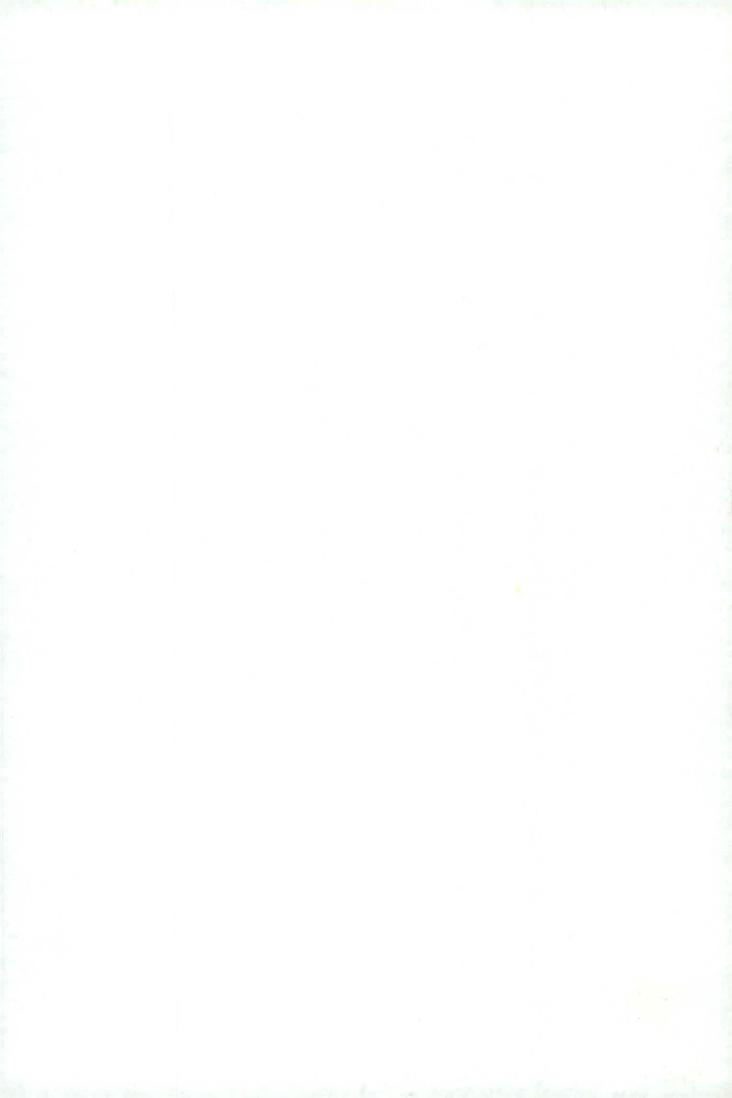
A Thesis submitted to the University of Sri Jayawardenepura for the award of the Degree off Master off Arts in Economics.

Department of Economics.

University of Sri Jayawanhenepura.

Nugegoda, Sri Lanka.

(March, 1999)



Statement of Authorship.

This thesis contains no material which has been accepted for the award of any other degree or diploma in any University or equivalent institution, and that to the best of my knowledge and belief, contains no material previously published or written by any person, except where due reference is made in the text of the thesis.

The work described in this thesis was carried out by me under the supervision of Professor S. Tilakaratna and Professor W A Jayatissa.

M. Palitha Ekanayake. 30

Declaration by the supervisors

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

Professor S. Tilakaratne.

Professor W. A. Jayatissa.

The impact of the cost equalization strategy for the development of non traditional exports in Sri Lanka.



Master of Arts (Economics) Thesis

By

M. Palitha Ekanayake.

B. Com. (Hon), MBA (Monash University), DPFM, FPFA(Sri Lanka)
Reg. No. 8466

A Thesis submitted to the University of Sri Jayawardenepura for the award of the Degree of Master of Arts in Economics.

Department of Economics .

University of Sri Jayawarhenepura.

Nugegoda, Sri Lanka.

(March, 1999)

TABLE OF CONTENTS.

Chapter. 1.

Introduction.

1. PROBLEM AND ITS SETTING.	1
1:1. The statement of the problem	1
1: 2. The sub problems.	1
1:3. The hypotheses	1
1: 4. The delimitations.	2
1:5. The definition of terms.	2
1: 6. Assumptions	3
2. THE SIGNIFICANCE OF THIS STUDY	3
3. DATA AND RESEARCH METHODOLOGY	8
3:1. The Data	8
3: 2. The research Methodology	9
4. BACKGROUND OF THE STUDY.	11
5. THE ORGANISATION OF THE REMAINDER OF THE STUDY	15
Chapter 2.	
Diversification of Export and Cost Equalization Strategy	y .
1. INTRODUCTION.	16
2. THEORETICAL CONCEPTS	17
2.: 1. Export diversification	17
2.: 2. Cost Equalization Strategy.	21
2 - 2 - 1. Policy consideration.	22
3. COST EQUALIZATION SCHEMES.	25
3 - 1. Duty Drawback Scheme.	-26
3 - 2. ALTERNATIVE CUSTOM BONDING SCHEMES.	26
3 - 3. Free Trade Zones Scheme.	27

4. EXPORT TRADE PATTERN	29
4 - 1. DIVERSITY OF THE EXPORT SECTOR IN PRE 1977	32
4 - 2. Diversity Under Trade Liberalisation	33
4: 2.: 1. Export diversity based on value of export.	34
4:2:2. Export Diversity based on number of products.	36
5. EVOLUTION OF NON TRADITIONAL EXPORT SECTOR	38
6. CONCLUSION	44
Chapter 3.	
A structural Model for Export Diversification.	
1. INTRODUCTION.	45
2. THEORETICAL DEVELOPMENTS	47
2: 1. DYNAMIC VERSION OF EXPORT BEHAVIOUR	50
2:2. Small Developing Economies	53
3. DYNAMIC VIEW OF TESTING EXPORT PERFORMANCE	56
4. ANALYTICAL FRAMEWORK	58
4:1. Model building.	59
4: 2. Index of export demand	61
4:3. Index of domestic export supply (DS _T)	62
4: 4. Rate of trade liberalisation.	65
5. ESTIMATION RESULTS.	66
5:1. Export demand estimation	66
5: 2. EXPORT SUPPLY ESTIMATION.	70
5: 3. Rate of Liberalization estimation	73
6 MODEL ESTIMATES	77
6:1. F TEST RESULTS.	79
6: 2. Error feedback model	79
7 DATA BOODIEMS	00

8. CONCLUSIONS	81
Chapter. Four.	
Evaluation of Export Diversification and Policy	Implications
1. INTRODUCTION.	. 84
2. THEORETICAL HIGHLIGHTS.	
3. KEY POLICY EXPERIENCE FROM THE PAST	90
4. DIVERSIFICATION TREND	94
4:1. Trend in Demand.	96
4: 2. Trend in the Supply of Export	98
4: 3. Trend in the market.	103
5 : POLICY SIMULATIONS	105
5: 1. DIFFERENT POLICY SCENARIOS	107
6. EXPORT DIVERSIFICATION POLICY CONSIDERATION	N 109
6: 1. DEMAND RELATED POLICY STRATEGIES	110
6:1:1. Exchange rate management strategies.	110
6:1:2. Profitability or rate of return.	112
6:2. SUPPLY SIDE POLICY STRATEGIES	114
7. MARKET OR STATE IN DIVERSIFICATION PROCESS	119
8. CONCLUSION.	120

Page:	VII

Chapter . Five.	
Summary and Conclusions.	
1. CONCEPTUAL FRAMEWORK.	122
2. THOROUGHLY A MODERN MARKET STRATEGY.	125
3. SUSTAINABILITY OF EXPORT DIVERSIFICATION PROCESS.	127
4. RECOMMENDATION FOR FURTHER RESEARCH.	129
Bibliography.	130
Appendixes.	
1. Data Appendix.	141
2. Non Traditional Export Products and Value.	143
3. Emerging Non Traditional Export Products	145
4. Reimbursements Under Duty Drawback Scheme.	147
5. Appendix Tables.	
1. Per capita income of selected Asian Countries.	148
2. Exports and imports as percentage of GDP.	149
3. Trend in the manufactured products.	150
Forecast based on the 1997	
4. Basis of allocation of variable cost.	152
5. Total exports, BOI exports and value added:	153
6. Industrial exports - Selected Years.	154
7. Composition of Major categories of manuf: products.	155
8. Direction of trade - Exports.	156
9. Direction of export markets	157
10. Growth of BOI activities from 1978 to 1997.	158
11. Annual average rate of exchange since 1977.	159
12. Balance of Payments Data 1978 to 1997.	160

List of tables

Table: 1 - 1. Growth of non traditional exports under cost equalization schemes.

Percentages of the total.

Table: 2 - 1. Significance of cost equalization strategy.

Table: 2 - 2. Structural Changes in BOI operations. (percentages)

Table: 2 - 3. Trade coefficient ratio. Selected years. as a Percentage of GDP

Table: 2 - 4. Composition of Imports and Export share.

Table: 2 - 5. Export products with high/low diversity potential.

Table: 2 - 6. Change in the number of export products.

Table: 2 - 7. Composition of manufactured exports. (Percentages).

Table: 3 - 1. Regression Statistics.

Table: 3 - 2. Actual price and the predicted price indices of exports.

Table: 3 - 3. Export supply equation: Regression Statistics.

Table: 3 - 4. Export supply Equation: Lagged XV, Regression Statistics.

Table: 3 - 5. F test results

Table: 3 - 6. Predicted export Volume

Table: 3 - 7. Rate of liberalisation indexes.

Table: 3 - 8. t - test; paired two sample means.

Table: 3 - 9. Regression Statistics Export diversification.

Table: 3 - 10. F test results.

Table: 4 - 1 projected indexes - Time series.

Table: 4 - 2. Basis of allocation of variable cost.

Table: 4 - 3. Benchmark Performances.

Table: 4 - 4. Export performance in the year 2005.

Table: 4 - 5. Two policy scenarios exchange rate and growth.

List of Figures.

- Figure: 1 1. The Schema of the Research.
- Figure: 1 2. Structure of Cost Equalization Schemes.
- Figure: 2 1. Change in Traditional to Non Traditional Export Sector.

(Percentage change)

- Figure: 4 1. Export product lines diversification since. 1977.
- Figure: 4 2. Export price behaviour for manufactured exports.
- Figure: 4 3. Supply of export volume from 1977 to 1997.
- Figure: 4 4. Trend in the diversity of manufactured export sector: 1998 to 2005.
- Figure: 4 5. Trend in the price of manufactured export sector: 1998 to 2005.
- Figure: 4 6. Trend in the volume of manufactured export sector: 1998 to 2005

Abbreviations.

- BOI Board of Investment.
- FTZ. Free Trade Zone.
- FDI. Foreign Direct Investment.
- MNC. Multi National Corporation.
- FOB. Free On Board
- VER. Voluntary Export Restraints.
- ITC. International Trade Center.
- TIEP. Temporary Import and Export Program.
- GCEC Greater Colombo Economic Commission.
- LDC. Less Developed Country.
- OLS. Ordinary Least Squares.
- NAFTA. North American Free Trade Agreement.
- EU. European Union.

Acknowledgments.

There are number of people that warranted acknowledgment for their assistance and support in connection with this thesis. Foremost is my supervisors: Professor. S. Tilakaratne and Professor. W. A. Jayatissa. They have devoted their valuable time and I have learned a lot from them.

I have been fortunate to have had senior officers like Mr. H. R. Perera (Director, Industrial Policy, Ministry of Industries) and Mr. K Shanmugalingam (Deputy Secretary to the General Treasury) who have trained me in the application of trade policy in the real world situations. I would like to thank them for allowing me to experience the wisdom of real world trade policy application.

This research could not have come into being without the moral support and encouragement of Professor M. S. Sathkumara and Professor P Wilson. The debt to them is enormous. I am deeply indebted to Professor Jack wood and Professor James Moulder in the Mt. Eliza Business School, Monash University, Australia for training me, how to undertake a research.

Finally, I would like to thank my wife Surangee and Ms. Sarojani Wijeratna who have been patient enough to go through my rough notes and help me in revising them whereever applicable.

Palitha Ekanayake.

Director (Management Development)
State Accounts, General Treasury.
Ministry of Finance and Planing
Colombo. Sri Lanka.

THE IMPACT OF COST EQUALIZATION STRATEGY FOR THE DEVELOPMENT OF NON TRADITIONAL EXPORTS IN SRI LANKA.

By. M. Palitha Ekanayake.

ABSTRACT

Sri Lanka is a small developing economy, a price taker, whose impact on both world trade and output is relatively insignificant. As tested in this study, Sri Lanka is able to export uninterruptedly with a diversified export structure provided that it maintains a freer market and friendly domestic supply condition. In this concern, the cost equalization strategy; duty drawback, bonding and duty free export processing zones have created an artificial emerging freer market and effected for a well diversified non traditional export sector. It is well demonstrated that duty free export processing strategy has its own merits allowing exporters to maintain level playing field.

This study has strongly supported duty free export processing strategy as a key strategy to maintain the diversity in the manufacturing sector, especially for an overheating economy in Sri Lanka. In support of this argument, it has found that the result of statistical evaluation procedure has well matched with empirical evidence during the trade liberalisation period. The results of this study shows that Sri Lanka has presently moved towards right direction in the process of diversification of the non traditional export sector. However, there are many hurdles to be overcome.

Having tested and explored the role of cost equalization strategy in the non traditional export sector, this study has examined the sustainability of model findings and translated them into real world predictions by forecasting the trend in diversity and its parameters. The results have been translated into trade policy strategies, coupled with some lessons to be heeded from history and relevant strategies to manage the drivers of changes in the export trade. At the door steps of the risk of deep global recession and inexorably rising unemployment, selling Sri Lankan jobs in the international markets will become a challenge.

The empirical evidence suggests that Sri Lanka is on the edge of the first stage of export processing with many more budding export products. The cost equalization strategy may help to manage the diversity as well as to step into second stage of export diversification. In this process, what matters most is a cost equalization strategy which will maintain a level playing field for export manufacturing and trade.

Chapter. 1.

Introduction.

1. Problem and its setting.

1:1. The statement of the problem.

This research proposes to identify and evaluate the existing discrete interest on the impact of cost equalization strategy for the development of non traditional exports during the trade liberalisation regime in Sri Lanka.

1: 2. The sub problems.

- The first sub problem is to identify whether the demand for non traditional exports have an discrete impact in determining the price of non traditional exports.
- The second sub problem is to evaluate the impact of domestic supply condition in Sri Lankan small economy on expansion and diversification of the non traditional export sector.
- The third sub problem is to analyse and interpret the role of the cost equalization schemes as a separate market for export processing activities in terms of their discreteness on the non traditional export sector.

1:3. The hypotheses.

- The first hypothesis that it tests that demand for export could influence the development of non traditional exports in Sri Lanka
- The second hypothesis that it tests the impact of the domestic supply condition of a small liberalising economy for increasing the diversity and volume of non traditional export production.
- The third hypothesis: that it tests is whether cost equalization schemes in Sri Lanka have an impact on increasing the diversity in the manufacturing for exports.