INVC YUS

THE ROLE OF MITI IN THE DEVELOPMENT OF THE JAPANESE ECONOMY

BY -LOGAMBAL A/P RAMADOSS @ RAMADAS (EGA00017)

SUBMITTED TO THE FACULTY OF ECONOMICS AND ADMINISTRATION, UNIVERSITY OF MALAYA IN PARTIAL FULFILMENT OF THE REQUIREMENT FOR THE DEGREE OF MASTER OF ECONOMICS

OCTOBER 2003



ACKNOWLEDGMENTS

Firstly, I wish to thank my supervisor Mr. Lee Hwok Aun for his kind support and advice in completing the research paper. I am grateful to him for his constant motivation throughout this research paper.

My special thanks and love to my family, especially my beloved husband Mr.A.Arulnathan, my dear sister R.Hemavartthini and my parents for being supportive and understanding throughout the period. I deeply appreciate their love and constant motivation.

Finally, my thanks to friends and office colleagues for their help and encouragement.

ABSTRACT

In post-war period, MITI had played a major role in the success of the Japanese economy. The key function of MITI could be recognized through the execution of industrial policies. Since the liberalization in 1964, MITI often used its administrative tools in order to nurture the Japanese economy. MITI is responsible in the development of several fields, such as the trade sectors, technological development, environmental protection, energy and controlling over foreign exchange.

The main objective of this study is to identify the role of MITI in the development of Japanese economy. In conjunction with this, this study has two fold: first a general view on the role of MITI has been explained. Subsequently, an analytical study based on collected data in four selected industries (machine tool, automobile, steel, and computer) has been conducted.

In the first fold, a brief introduction on MITI's establishment has been provided followed by the objectives and the organization structure of MITI. The major responsibility of MITI in Japan involves the policy-making process. MITI has gone through three major stages in the development of industrial policies. The first two stages are based on the reconstruction period and high growth liberalization period, whereas the third and forth stages focused more on the diversification role of MITI.

Other policies that have been explained are the trade policies and technology policies, which have been formulated by MITI. MITI also faced a challenging role following the oil crisis. In 1978, MITI assisted the declining industries in an effort to protect them.

In analytical study, a graphical and statistical data support the implication of MITI's role in the development of the Japanese economy. Four industries have been selected (machine tool, automobile, steel, and computer) to examine the policies that MITI has implemented and their effects.

There are also some drawbacks on MITI's policies, which have been discussed. However, the findings in this study conclude that MITI's policies have on the whole positively influenced the Japanese economic development.

TABLE OF CONTENTS

ACKNOWLEDGMENT	
ABSTRACT	
LIST OF TABLES	
LIST OF APPENDICES	
ABBREVIATION	
1. INTRODUCTION	1
1.1 Objectives of the Study	2
1.2 Methodology of the Study	3
1.3 Limitations and Problems	5
2. LITERATURE REVIEW	6
 2.1 Japanese Economy and MITI During the Post War Period (1950-1960) 	6
2.2 Changes in Japanese Economy During the 70s, 80s, and 90s	14
3. THE ROLE OF MITI	20
3.1 Introduction to MITI	20
3.2 The objectives of MITI	22
3.3 The Structure of MITI	23
3.4 Industrial Policy in Japan	25
3.5 MITI's Challenging Role Following Oil Crisis 3.5.1 MITI's Plan for 1978 following Oil Crisis	26 29
3.6 MITI's Intervention in the Declining Industries 3.6.1 MITI's Plan for 1978 – An Effort to Protect	30
Declining Industries	31

3.7 Major Policies and Strategies Implemented by MITI	31
3.7.1 MITI's Main Policy Tool	31
3.7.2 Actual Industrial Policies by MITI	33
3.7.3 Trade Policy	39
3.7.4 Technology Policy	44
4. MITI'S POLICIES ON JAPANESE SELECTED	
INDUSTRIES	52
4.1 Machine Tool Industry	52
4.1.1 Production Trend in Machine Tool Industry	52
4.1.2 MITI's Policy Implementation in Machine Tool	
Industry	54
4.2 Automobile Industry	58
4.2.1 The Development of Auto Industry Policies	62
4.2.2 The Car Parts Industry	67
4.2.3 The Effectiveness of Protection and Promotion	
Policies in the Auto Industry	69
4.3 Steel Industry	72
4.3.1 The First Rationalization Plan by MITI (1951-1955)	73
4.3.2 The Second Rationalization Plan by MITI	
(1956-1960)	73
4.3.3 The Third Rationalization Plan by MITI (1961-1965)	74
4.3.4 Investment Coordination	78
4.3.5 The Steel List-Price System	79
4.3.6 Current Market Trend in Steel Industry	81
4.4 The Computer Industry	84
4.4.1 Technology Development	84
4.4.2 Leasing and Financing	87
4.4.3 Market Protection	88
5. CONCLUSION	90
APPENDICES	95
BIBLIOGRAPHY	107

LIST OF TABLES

2.1	Japanese Principal Economic Indicators
3.1	Japan's GNP During the 1973 Oil Crisis
3.2	Principal MITI-Sponsored R&D Projects in the 1970s
4.1	Machine Tools Orders Received (1976-1990)
4.2	U.S. Japan Trade in Numerical Control Machine Tools (in \$
	Millions)
4.3	Japanese Passenger Car Production and Trade (1000 units)
4.4	Japanese Motor Vehicles (4-Wheeled) Production and the Share of
	Passenger Cars
4.5	Japanese Steel Unit Production Cost Index (ordinary steel,
	1956=100)
4.6	Steel Trade: Export and Import Shares (raw steel equivalent, %)
4.7	The Number of Employees and Value of Shipments of Steel
	Industry (1985-2001)
4.8	JECC Computer Purchases and Japan Development Bank
	Financing to JECC (¥ 100 million)

LIST OF APPENDICES

3.1	Outlays of Ministries of Japanese Government, Fiscal Year 1990
	(in Billions of Yen) and Number of Personnel (1987)
3.2	The Organization Chart of MITI
3.3	Basic Policy Implemented in the Management Process of the Real
	World Computing Partnership (RWCP)
3.4	The Outline of the Real World Computing Partnership (RWCP)
3.5	The System Implemented in Real World Computing Partnership
	(RWCP)
3.6	The Sub-Committees Involved in the Real World Computing
	Partnership (RWCP)
3.7	Parallel and Distributed Computing
4.1	Production at U.S. Manufacturing Operations
4.2	European Production by Japanese Automakers
4.3	Asian Production by Japanese Automakers in 2002
4.4	The Implementation of Three Rationalization Plans in Steel
	Industry
4.5	Very Large Scale Integration (VLSI) Project

ABBREVIATIONS

AIST	Agency for Industrial Science and Technology
------	--

EIBJ Export-Import Bank of Japan

FILP Fiscal Investments and Loans Program

GATT General Agreement on Tariffs and Trade

IMF International Monetary Fund

JAMA Japan Automobile Manufacturers Association

JDB Japan Development Bank

JECC Japan Electronic Computer Corporation

JETRO Japan External Trade Organization

JPDC Japan Petroleum Development Corporation

LDP Liberal Democratic Party

LSI Large Scale Integrated Circuits

MCI Ministry of Commerce and Industry

MEMA Motor & Equipment Manufacturers Association

METI Ministry of Economy, Trade and Industry

MITI Ministry of International Trade and Industry

MM Ministry of Munitions

MOF Ministry of Finance

NC Numerical Control

NEDO New Energy and Industrial Technology Development

Organization

NTT Nippon Telegraph and Telephone

OECD Organization for Economic Cooperation and Development

RWC Real World Computing

RWCP Real World Computing Partnership

TRC Tsukuba Research Center

VLSI Very Large Scale Integration