

INTERNATIONAL JOURNAL OF RESEARCH IN COMMERCE, ECONOMICS AND MANAGEMENT

CONTENTS

Sr. No.	TITLE & NAME OF THE AUTHOR (S)	Page No.
1.	LACK OF INFRASTRUCTURE AND VISION 2020 IN NIGERIA	1
	OLOWE, OLUSEGUN	
2 .	IMPACT OF SELECTED ISSUES ON WORK-FAMILY BALANCE: EMPIRICAL EVIDENCE FROM PRIVATE COMMERCIAL BANKS OF	5
	BANGLADESH AYFSHA TARASSI IM TASMINE IAIM & TASNI IVA RAHMAN	
3	A STUDY ON TOTAL QUALITY MANAGEMENT & DEVELOPING A COMPREHENSIVE MODEL FOR QUALITY IN HIGHER	٩
э.	EDUCATION	5
	HARINI METHUKU & HATIM R HUSSEIN	
4.	FISCAL POLICY AND ECONOMIC GROWTH IN PAKISTAN	14
	ZEESHAN AHMED	
5.	A NON-PARAMETRIC APPROACH TO FINANCIAL INCLUSION ANALYSIS THROUGH POSTAL NETWORK IN INDIA	19
6		25
6.	SECONTIZATION AND ITS RELATIONSHIP WITH REAL ESTATE GROWTH - AN ANALTSIS	25
7	EXPLORING HRM PRACTICES IN SMEs	32
7.	PUJA BHATT & DR. S. CHINNAM REDDY	52
8.	ELECTRICITY EXCHANGE IN INDIA: A STUDY OF INDIAN ENERGY EXCHANGE	42
	DR. Y. M. DALVADI & SUNIL S TRIVEDI	
9.	SMALL SCALE INDUSTRIAL UNITS: PAST AND PRESENT PROBLEMS AND PROSPECTS	48
10	DR. K. VETRIVEL& DR. S. TYPAMPILLAT	64
10.	MARKET RESPONSE	61
	DR. S. P. RATH, DR. BISWAJIT DAS, HEMANT GOKHALE & RUSHAD KAVINA	
11.	A STUDY ON DECIDING FACTORS OF WOMEN ENTREPRENEURSHIP IN VIRUDHUNAGAR DISTRICT	70
	C. MANOHARAN & DR. M. JEYAKUMARAN	
12 .	EARNINGS ANNOUNCEMENTS: DO THEY LEAD TO EFFICIENCY?	74
	SANTOSH KUMAR, TAVISHI & DR. RAJU. G	
13.	CLIMATE CHANGE, ADAPTATION AND MITIGATION EFFORTS IN THE TRIBAL AREAS OF INDIA	78
1/	A STUDY ON THE DETERMINANTS OF EXPORT DEMAND OF INDIA AND KERALA	82
17.	DR. L. ANITHA	02
15.	INDIA'S FUTURE CONSUMPTION OF COAL RESOURCES & INDONESIA AS A POTENTIAL PROCUREMENT DESTINATION	87
	DR. CH. VENKATAIAH & SANTHOSH B. S.	
16 .	AN EMPIRICAL INVESTIGATION OF THE TRADE-OFF AND PECKING ORDER HYPOTHESES ON INDIAN AUTOMOBILE FIRMS	94
47	DR. A. VIJAYAKUMAK	101
17.	DR. A. S. SHIRALASHETTI & D. D. KUIKARNI	101
18	ANALYSING SOCIO DEMOGRAPHIC EFFECT ON CONSUMER'S POST PURCHASE BEHAVIOUR: A STUDY ABOUT HOME	105
10.	APPALIANCES	105
	DR. DHARMENDRA KUMAR	
19 .	ETHICAL HUMAN RESOURCES WITH SUSTAINABLE RESPONSIBLE BUSINESS LEADING TO EMPLOYEE ENGAGEMENT	110
20	R. MANJU SHREE	444
20.	BHAVIK M PANCHASARA KUMARGAURAV GHELA SAGAR GHETIA & ASHISH CHUDASAMA	114
21	INSOLVENCY RISK OF SELECTED INDIAN COMMERCIAL BANKS: A COMPARATIVE ANALYSIS	120
	SANTI GOPAL MAJI, SOMA DEY & ARVIND KR. JHA	120
22.	SOCIAL RESPONSIBILITY OF ENTERPRISES IN A GLOBALISED INDIAN ECONOMY - AN ANALYSIS	125
	DR. KUMUDHA RATHNA	
23 .	CSR PRACTICES AND RATINGS IN INDIAN BANKING SECTOR	129
24		124
24.	DR. JAMIL AHMAD	134
25	EMPOWERMENT OF WOMEN THROUGH MICRO FINANCE IN THE UNION TERRITORY OF PUDUCHERRY	139
	B. ELUMALAI & P. MUTHUMURUGAN	
	REQUEST FOR FEEDBACK	143

A Monthly Double-Blind Peer Reviewed Refereed Open Access International e-Journal - Included in the International Serial Directories Indexed & Listed at: Ulrich's Periodicals Directory ©, ProQuest, U.S.A., The American Economic Association's electronic bibliography, EconLit, U.S.A., Open J-Gage, India as well as in Cabell's Directories of Publishing Opportunities, U.S.A.

Circulated all over the world & Google has verified that scholars of more than eighty-one countries/territories are visiting our journal on regular basis. Ground Floor, Building No. 1041-C-1, Devi Bhawan Bazar, JAGADHRI – 135 003, Yamunanagar, Haryana, INDIA

<u>CHIEF PATRON</u>

PROF. K. K. AGGARWAL Chancellor, Lingaya's University, Delhi Founder Vice-Chancellor, Guru Gobind Singh Indraprastha University, Delhi Ex. Pro Vice-Chancellor, Guru Jambheshwar University, Hisar

<u>PATRON</u>

SH. RAM BHAJAN AGGARWAL Ex. State Minister for Home & Tourism, Government of Haryana Vice-President, Dadri Education Society, Charkhi Dadri President, Chinar Syntex Ltd. (Textile Mills), Bhiwani

CO-ORDINATOR

DR. BHAVET Faculty, M. M. Institute of Management, Maharishi Markandeshwar University, Mullana, Ambala, Haryana

ADVISORS

PROF. M. S. SENAM RAJU Director A. C. D., School of Management Studies, I.G.N.O.U., New Delhi PROF. M. N. SHARMA Chairman, M.B.A., Haryana College of Technology & Management, Kaithal PROF. S. L. MAHANDRU Principal (Retd.), Maharaja Agrasen College, Jagadhri

EDITOR

PROF. R. K. SHARMA Dean (Academics), Tecnia Institute of Advanced Studies, Delhi

CO-EDITOR

DR. SAMBHAV GARG

Faculty, M. M. Institute of Management, Maharishi Markandeshwar University, Mullana, Ambala, Haryana

EDITORIAL ADVISORY BOARD

DR. AMBIKA ZUTSHI Faculty, School of Management & Marketing, Deakin University, Australia

DR. VIVEK NATRAJAN Faculty, Lomar University, U.S.A. DR. RAJESH MODI

Faculty, Yanbu Industrial College, Kingdom of Saudi Arabia PROF. SIKANDER KUMAR

Chairman, Department of Economics, Himachal Pradesh University, Shimla, Himachal Pradesh

PROF. SANJIV MITTAL

University School of Management Studies, Guru Gobind Singh I. P. University, Delhi

PROF. RAJENDER GUPTA

Convener, Board of Studies in Economics, University of Jammu, Jammu

PROF. NAWAB ALI KHAN Department of Commerce, Aligarh Muslim University, Aligarh, U.P. PROF. S. P. TIWARI Department of Economics & Rural Development, Dr. Ram Manohar Lohia Avadh University, Faizabad DR. ASHOK KUMAR CHAUHAN Reader, Department of Economics, Kurukshetra University, Kurukshetra DR. SAMBHAVNA Faculty, I.I.T.M., Delhi DR. MOHENDER KUMAR GUPTA Associate Professor, P. J. L. N. Government College, Faridabad DR. VIVEK CHAWLA Associate Professor, Kurukshetra University, Kurukshetra DR. SHIVAKUMAR DEENE Asst. Professor, Government F. G. College Chitguppa, Bidar, Karnataka

ASSOCIATE EDITORS

PROF. ABHAY BANSAL Head, Department of Information Technology, Amity School of Engineering & Technology, Amity University, Noida PARVEEN KHURANA Associate Professor, Mukand Lal National College, Yamuna Nagar SHASHI KHURANA Associate Professor, S. M. S. Khalsa Lubana Girls College, Barara, Ambala SUNIL KUMAR KARWASRA Vice-Principal, Defence College of Education, Tohana, Fatehabad DR. VIKAS CHOUDHARY Asst. Professor, N.I.T. (University), Kurukshetra

TECHNICAL ADVISORS

AMITA Faculty, E.C.C., Safidon, Jind MOHITA Faculty, Yamuna Institute of Engineering & Technology, Village Gadholi, P. O. Gadhola, Yamunanagar

FINANCIAL ADVISORS

DICKIN GOYAL Advocate & Tax Adviser, Panchkula NEENA Investment Consultant, Chambaghat, Solan, Himachal Pradesh

LEGAL ADVISORS

JITENDER S. CHAHAL Advocate, Punjab & Haryana High Court, Chandigarh U.T. CHANDER BHUSHAN SHARMA Advocate & Consultant, District Courts, Yamunanagar at Jagadhri

<u>SUPERINTENDENT</u>

SURENDER KUMAR POONIA

INTERNATIONAL JOURNAL OF RESEARCH IN COMMERCE, ECONOMICS & MANAGEMENT A Monthly Double-Blind Peer Reviewed Refereed Open Access International e-Journal - Included in the International Serial Directories www.ijrcm.org.in

CALL FOR MANUSCRIPTS

We invite unpublished novel, original, empirical and high quality research work pertaining to recent developments & practices in the area of Computer, Business, Finance, Marketing, Human Resource Management, General Management, Banking, Insurance, Corporate Governance and emerging paradigms in allied subjects like Accounting Education; Accounting Information Systems; Accounting Theory & Practice; Auditing; Behavioral Accounting; Behavioral Economics; Corporate Finance; Cost Accounting; Econometrics; Economic Development; Economic History; Financial Institutions & Markets; Financial Services; Fiscal Policy; Government & Non Profit Accounting; Industrial Organization; International Economics & Trade; International Finance; Macro Economics; Micro Economics; Monetary Policy; Portfolio & Security Analysis; Public Policy Economics; Real Estate; Regional Economics; Tax Accounting; Advertising & Promotion Management; Business Education; Business Information Systems (MIS); Business Law, Public Responsibility & Ethics; Communication; Direct Marketing; E-Commerce; Global Business; Health Care Administration; Labor Relations & Human Resource Management; Marketing Research; Marketing Theory & Applications; Non-Profit Organizations; Office Administration/Management; Operations Research/Statistics; Organizational Behavior & Theory; Organizational Development; Production/Operations; Public Administration; Purchasing/Materials Management; Retailing; Sales/Selling; Services; Small Business Entrepreneurship; Strategic Management Policy; Technology/Innovation; Tourism, Hospitality & Leisure; Transportation/Physical Distribution; Algorithms; Artificial Intelligence; Compilers & Translation; Computer Aided Design (CAD); Computer Aided Manufacturing; Computer Graphics; Computer Organization & Architecture; Database Structures & Systems; Digital Logic; Discrete Structures; Internet; Management Information Systems; Modeling & Simulation; Multimedia; Neural Systems/Neural Networks; Numerical Analysis/Scientific Computing; Object Oriented Programming; Operating Systems; Programming Languages; Robotics; Symbolic & Formal Logic; Web Design. The above mentioned tracks are only indicative, and not exhaustive.

Anybody can submit the soft copy of his/her manuscript **anytime** in M.S. Word format after preparing the same as per our submission guidelines duly available on our website under the heading guidelines for submission, at the email addresses, <u>infoijrcm@gmail.com</u> or <u>info@ijrcm.org.in</u>.

GUIDELINES FOR SUBMISSION OF MANUSCRIPT

1. COVERING LETTER FOR SUBMISSION:

THE EDITOR

IJRCM

Subject: SUBMISSION OF MANUSCRIPT IN THE AREA OF

(e.g. Computer/IT/Finance/Marketing/HRM/General Management/other, please specify).

DEAR SIR/MADAM

Please find my submission of manuscript titled '

' for possible publication in your journal.

DATED:

I hereby affirm that the contents of this manuscript are original. Furthermore it has neither been published elsewhere in any language fully or partly, nor is it under review for publication anywhere.

I affirm that all author (s) have seen and agreed to the submitted version of the manuscript and their inclusion of name (s) as co-author (s).

Also, if our/my manuscript is accepted, I/We agree to comply with the formalities as given on the website of journal & you are free to publish our contribution to any of your journals.

NAME OF CORRESPONDING AUTHOR:

Designation:

Affiliation with full address & Pin Code:

Residential address with Pin Code:

Mobile Number (s):

Landline Number (s):

E-mail Address:

Alternate E-mail Address:

- INTRODUCTION: Manuscript must be in British English prepared on a standard A4 size paper setting. It must be prepared on a single space and single column with 1" margin set for top, bottom, left and right. It should be typed in 8 point Calibri Font with page numbers at the bottom and centre of the every page.
- 3. MANUSCRIPT TITLE: The title of the paper should be in a 12 point Calibri Font. It should be bold typed, centered and fully capitalised.
- 4. **AUTHOR NAME(S) & AFFILIATIONS**: The author (s) full name, designation, affiliation (s), address, mobile/landline numbers, and email/alternate email address should be in italic & 11-point Calibri Font. It must be centered underneath the title.
- 5. ABSTRACT: Abstract should be in fully italicized text, not exceeding 250 words. The abstract must be informative and explain the background, aims, methods, results & conclusion in a single para.
- 6. **KEYWORDS**: Abstract must be followed by list of keywords, subject to the maximum of five. These should be arranged in alphabetic order separated by commas and full stops at the end.
- 7. **HEADINGS**: All the headings should be in a 10 point Calibri Font. These must be bold-faced, aligned left and fully capitalised. Leave a blank line before each heading.
- 8. **SUB-HEADINGS**: All the sub-headings should be in a 8 point Calibri Font. These must be bold-faced, aligned left and fully capitalised.
- 9. MAIN TEXT: The main text should be in a 8 point Calibri Font, single spaced and justified.
- 10. **FIGURES &TABLES:** These should be simple, centered, separately numbered & self explained, and titles must be above the tables/figures. Sources of data should be mentioned below the table/figure. It should be ensured that the tables/figures are referred to from the main text.
- 11. EQUATIONS: These should be consecutively numbered in parentheses, horizontally centered with equation number placed at the right.
- 12. **REFERENCES**: The list of all references should be alphabetically arranged. It must be single spaced, and at the end of the manuscript. The author (s) should mention only the actually utilised references in the preparation of manuscript and they are supposed to follow **Harvard Style of Referencing**. The author (s) are supposed to follow the references as per following:
- All works cited in the text (including sources for tables and figures) should be listed alphabetically.
- Use (ed.) for one editor, and (ed.s) for multiple editors.
- When listing two or more works by one author, use --- (20xx), such as after Kohl (1997), use --- (2001), etc, in chronologically ascending order.
- Indicate (opening and closing) page numbers for articles in journals and for chapters in books.
- The title of books and journals should be in italics. Double quotation marks are used for titles of journal articles, book chapters, dissertations, reports, working papers, unpublished material, etc.
- For titles in a language other than English, provide an English translation in parentheses.
- The location of endnotes within the text should be indicated by superscript numbers.

PLEASE USE THE FOLLOWING FOR STYLE AND PUNCTUATION IN REFERENCES:

BOOKS

Bowersox, Donald J., Closs, David J., (1996), "Logistical Management." Tata McGraw, Hill, New Delhi.

Hunker, H.L. and A.J. Wright (1963), "Factors of Industrial Location in Ohio," Ohio State University.

CONTRIBUTIONS TO BOOKS

• Sharma T., Kwatra, G. (2008) Effectiveness of Social Advertising: A Study of Selected Campaigns, Corporate Social Responsibility, Edited by David Crowther & Nicholas Capaldi, Ashgate Research Companion to Corporate Social Responsibility, Chapter 15, pp 287-303.

JOURNAL AND OTHER ARTICLES

• Schemenner, R.W., Huber, J.C. and Cook, R.L. (1987), "Geographic Differences and the Location of New Manufacturing Facilities," Journal of Urban Economics, Vol. 21, No. 1, pp. 83-104.

CONFERENCE PAPERS

 Garg Sambhav (2011): "Business Ethics" Paper presented at the Annual International Conference for the All India Management Association, New Delhi, India, 19–22 June.

UNPUBLISHED DISSERTATIONS AND THESES

Kumar S. (2011): "Customer Value: A Comparative Study of Rural and Urban Customers," Thesis, Kurukshetra University, Kurukshetra.

ONLINE RESOURCES

Always indicate the date that the source was accessed, as online resources are frequently updated or removed.

WEBSITE

Garg, Bhavet (2011): Towards a New Natural Gas Policy, Economic and Political Weekly, Viewed on July 05, 2011 http://epw.in/user/viewabstract.jsp

A STUDY ON THE DETERMINANTS OF EXPORT DEMAND OF INDIA AND KERALA

DR. L. ANITHA ASSOCIATE PROFESSOR KARUNYA SCHOOL OF MANAGEMENT KARUNYA UNIVERSITY KARUNYA NAGAR COIMBATORE – 641 114

ABSTRACT

Exports have assumed a place of paramount importance in the development process of the economy. The process of economic reforms in the Indian economy has continued for more than two decades and the economy, now, has a completely different profile to that of June 1991. The aim of this paper is to try and identify the determinants of export demand of India and Kerala and finds that the explanatory variables are predominant in explaining India's disaggregate export performance during 1991-92 to 2008-09. Most exports are found to be responsive to world imports. On the upswing of international growth trajectory, exports are found to have responded to growing world demand. The estimated results indicate that world import, unit value of exports and import price affect India's real exports positively.

KEYWORDS

Exports, imports, demand and structural stability.

INTRODUCTION

Indian exports have received considerable empirical attention in the past. The reforms process that was in initiated in 1991 sought to integrate the Indian economy with the world and to improve the incentive structure towards more efficient utilization of resources so as to achieve faster economic growth, reduction of absolute poverty and promotion of human development. T.N.Srinivasan (1996) found that Indian exports could have done better in terms of gaining market share and has in certain commodities lost share to other developing countries. The policy implication derived from these include an urgent addressing of the infrastructural constraints, which would improve export competitiveness not only by reducing costs, but also by attracting Foreign Direct Investment (FDI); completion of financial sector reforms and avoidance of inflationary financing of fiscal deficits in order to prevent real appreciation of rupee. Veena Mishra (1998) documents India's export performance and the various policy regimes in force since independence that explains its dismal nature. The

external sector is rightly seen as being influenced not only by foreign trade policies but also by the whole plethora of controls on economic activity – in the form of industrial licensing, import controls, labour laws, exchange rate controls and the thoroughly unplanned nature of incentives that they resulted in preventing India from reaping the gains from a liberalizing and growing world in the post World War II period.

The role that export orientation can play in Indian development by placing Indian experience in the context of countries that have either adopted export orientation as a conscious choice in the past or are in the process of trade liberalization has been studied by Tendulkar (1999). The focus is on exploring long term trends, and the analysis is done for sub-periods. He explores the relationship between exports and economic growth on the basis of an international cross section of 31 industrial countries. A single equation model is used, because the author expects the broad directional conclusion not to change if a simultaneous equation model postulating a two-way causal relationship between exports and economic growth is used. Volume growth is independent of world trade situation.

In examining the linkage between exports and growth, Hajra and Sinate (1997) conclude that increased openness of the current trade strategy of India would make domestic growth more important in shaping the future of country's export expansion.

They measure the price competitiveness of India's exports using three indicators:

- 1. India's export prices relative to competitors
- 2. India's export prices relative to those of industrialized countries
- 3. Real exchange rate based on consumer price index.

OBJECTIVES

- 1. To identify the determinants of demand of exports of India and Kerala
- 2. To find out the structural stability for demand of exports of India and Kerala

PERIOD OF STUDY

The period of study is confined to 18 years from 1991-92 to 2008-09

TOOLS OF ANALYSIS

Regression models have been developed to identify the determinants of demand for and supply of exports for the commodities under study. Chow tests were used to understand the presence of structural variations if any, in the data. To measure the instability of economic variables Cuddy-Della Valle index (corrected coefficient of variation) is used which takes into consideration the long-term trend.

MODELLING EXPORT DEMAND

Even though export expansion across sectors was coincidental with change in trade regimes, it would be too naïve to attribute the observed acceleration in export growth to trade liberalization per se. Supply or demand factors on their own can only determine export behaviour for short periods but cannot explain a long run phenomenon. It is the combination of supply and demand effects that cause long run export performance (Goldstein and Khan (1978, 1985), Arize (1990) and Muscatelli et al. (1992).

The behaviour of exports and imports model was tried by Virmani (1991), distinguishing demand and supplies analyzing manufactured and primary products. Krishnamurty and Pandit (1996) also tried to model the export and import behaviour by analyzing four groups of products following model for export and import demand and supply for different categories of exports for the period 1970-71 to 1990-91. Their model was estimated using volume of exports, unit value exports, exchange rate, and world real GDP. Virmani (1991) estimated demand and supply functions using unit value index of India's exports, unit value index of world exports, Real Effective Exchange Rate and average wholesale price index of all commodities. Estimates of these equations reveal a positive relationship between growth rates and GDP in manufacturing and an increase in price of manufactured exports. Virmani and for Krishnamurthy and Pandit, they get the opposite result – an increase in manufacturing sector GDP relative to total GDP leads to a fall in price of such exports.

INTERNATIONAL JOURNAL OF RESEARCH IN COMMERCE, ECONOMICS & MANAGEMENT A Monthly Double-Blind Peer Reviewed Refereed Open Access International e-Journal - Included in the International Serial Directories www.ijrcm.org.in Joshi and Little (1994) estimate structural as well as non-structural equations for aggregate exports, for the period 1961-87. Their aggregate demand and supply functions include Indian export prices, price of exports of competitor countries, world income, domestic wholesale price index and domestic demand.

In the standard imperfect-substitute model of the trade literature, export demand function is specified as a function of a scale variable and relative export prices. In general, world GDP is considered as a scale variable according to Houthakker et al. (1969). Instead, in this model world import demand as a scale variable is employed as given by Winter (1984). The basic idea stems from the world link model by Sarkar (2004) where it is assumed that only the allocation decision of world imports has to be made according to sources of supply. Another difference in the model is the treatment of price variables in absolute term, instead of relative term. This implies that the demand function is homogenous of zero degree in prices and nominal income. Such assumption is expressed by including a single relative export price variable, which explains foreign consumers switch their demand between imports and domestic goods (Carone 1996).

The studies above underscore the importance of relative prices and world income in determining demand for Indian exports and of domestic income and relative prices in determining the supply. The trends in Indian exports are explained through variations in domestic factors namely income and price policies and through international circumstances – an approach that finds favour in the present study too, given the evidence presented in the ones reviewed.

EXPORT DEMAND FUNCTION OF INDIA

In this section, an attempt has been made to formulate India's export demand model. An estimation of the demand equation for total India's exports using time series data for the period from 1991-92 to 2008-09 is done. The demand for exports is taken as a function of the ratio of price of country's exports to world import demand, unit value index of India's exports and World's import price index, i.e., $InX_d = \alpha_0 + \alpha_1 (InRWM)_t + \alpha_2 (InUVX)_t + \alpha_3 (InWMPX)_t + u_t$ (1)

α ₁ (InRW	M) _t + α_2 (InUV)	(1000000000000000000000000000000000000) t + Ut (1)
Where	X _d	=	Real India's Export Demand
	RWM	=	Real World's Imports
	UVX	=	Unit Value Index of India's Exports
	WMPX	=	World's Import Price Index
	11+	=	Error Term

REAL WORLD IMPORTS: The Real World's Imports (RWM) is measured in terms of the value of total imports of the world. The basic idea stems from the world link model where it is assumed that only the allocation decision of world imports has to be made according to the sources of supply (Sarkar 2004). An increase in real world imports will increase the real export demand of India. The coefficient associated with Real World Imports is expected to be positive and the value of α_1 less than one.

UNIT VALUE INDEX: To measure the price of India's exports in rupees, the Unit Value Index of India's Exports (UVX) is taken into account. Unit value index of exports is largely a monetary phenomenon. The rise in unit value is a function of a rise in domestic prices of exports as well as the world prices of exports. It is understood that foreign consumers switch their demand between imports and domestic goods and a higher price of exports for Indian goods leads to a decrease in demand for the products (Carone 1996 and Amal Sarkar, 2006). In other words, an increase in unit value of exports has an inverse relationship with exports. Therefore, the sign of the co-efficient α_2 is expected to be negative and less than one.

WORLD IMPORT PRICE INDEX: The variable World's Import Price Index is taken to measure the world import price. The purpose of world import price index is to measure the changes in the prices of goods and services exchanged in monetary transactions between India and the rest of the world. Rise in the price index leads to increase in exports. It is hypothesized that there is a positive relationship between the two. The coefficient is expected to be positive and the value of α_3 is expected to be less than one.

Since the variables are expressed in natural logarithms, the coefficients are elasticities. A priori, we would expect the coefficients of world import and world import price index would affect India's real exports positively. The co-efficient of India's unit value of export is expected to be negative. The equation is specified in natural logarithm term to get direct measure of constant elasticity from estimated equation with respect to explanatory variables. To measure the instability of economic variables Cuddy-Della Valle index (corrected coefficient of variation) is used which takes into consideration the long-term trend.

The data for variables pertaining to India are available on a financial year (April to March) basis, while that for variables pertaining to the world are available on a calendar basis. The variables for India therefore enter with a one-quarter lag in the equations, for example, the value for 1991-92 is used as that pertaining to the calendar year 1991. The time series data ranges from 1991-92 to 2008-09.

ESTIMATION AND INTERPRETATION OF FUNCTION:

On the basis of the theoretical specifications mentioned previously, a regression model based on OLS principle was run to estimate the log linear relationship. Table - 2 presents the coefficients of the estimated equation for the export demand function during 1991-92 to 2008-09.

India = $-20.366 + 1.174\alpha_1 + 0.383\alpha_2 + 0.142_3 + u_t$

$(R^2 = 0.994)$

The estimated results indicate that real world imports, India's unit value of exports and world import prices affect India's real exports positively. In other words, the related coefficients have expected signs except for that of unit value of exports which is expected to be negative. The elasticities for the real export demand function are estimated to be 1.174 for world import, 0.383 for unit value index of India's export and 0.142 for world import price. Thus, the estimated elasticities are found to be elastic with respect to the given variables (Table 1)

The coefficient of Real World Import is significant at 1 percent level implying that the real world imports play an important role in determining demand for Indian goods. The demand for our exports is not in consonance with that of unit value indexes of India's exports the elasticity being 0.383. It is understood that foreign consumers do not switch their demand between imports and domestic goods and a higher price of exports for Indian goods does not lead to a decrease in demand for the products The result for world import prices is statistically not significant and it implies that it does not affect the exports of India.

The value of R² and adjusted R² are on the higher side for the variables under study. The Durbin Watson test is less than two which states that there is positive auto correlation among the selected variables. However the study is not attempting on eliminating the auto correlation at present.

It will be interesting to see whether there is instability in the export demand for the exports of India. For this purpose Cuddy Della Valle index has been used. The instability indices in Table No.3 (Cuddy Della Valle Index) show the highest instability. The reason for such instability can be attributed to the fact that during the post reform period, many competitors have started taking a lion's share of India's export trade by being able to charge a much lower price when compared to Indian prices.

India's Exports (US \$	Real India's	World's Imports	Unit Value Index of India's Exports (Base	World's Import Price	
Million)	Exports	(1000 \$)	1978-79 =100)	Index	
17865.2	6107.76	3624950056	369.5	99.8	
18537.2	4238.48	3883352798	421.5	90.7	
22238.3	3909.98	3793677433	474.1	99.2	
26330.5	4690.63	4322481816	494.6	105.4	
31794.9	5323.59	5153894556	484.2	116.1	
33469.7	6566.48	5393478235	504.7	114.7	
35006.4	6631.60	5576998060	589.4	108.5	
33218.7	5636.02	5527101950	611.7	101.6	
36822.4	6019.68	5757992154	604.0	99.7	
44560.3	7377.53	6540626174	624.0	100.0	
43826.7	7023.51	6283204556	618.0	96.3	
52719.4	8530.65	6557581256	620.0	95.8	
63842.6	10297.19	7634150764	672.0	104.6	
83535.9	12430.94	9362766022	732.0	114.4	
103090.5	14083.40	10587295020	798	121.6	
126414.1	15841.37	12090236910	863	122.5	
162904.2	18876.50	14174782323	939.0	120	
185295	19733.23	15864753215	963.4	106	
	India's Exports (US \$ Million) 17865.2 18537.2 22238.3 26330.5 31794.9 33469.7 35006.4 33218.7 36822.4 44560.3 43826.7 52719.4 63842.6 83535.9 103090.5 126414.1 162904.2 185295	India's Exports (US \$ Real India's Million) Exports 17865.2 6107.76 18537.2 4238.48 22238.3 3909.98 26330.5 4690.63 31794.9 5323.59 33469.7 6566.48 35006.4 6631.60 3218.7 5636.02 36822.4 6019.68 44560.3 7377.53 43826.7 7023.51 52719.4 8530.65 63842.6 10297.19 83535.9 12430.94 103090.5 14083.40 126414.1 15841.37 162904.2 18876.50 185295 19733.23	India's Exports (US \$ Real India's Exports World's Imports Million) Exports (1000 \$) 17865.2 6107.76 3624950056 18537.2 4238.48 3883352798 22238.3 3909.98 3793677433 26330.5 4690.63 4322481816 31794.9 5323.59 5153894556 33469.7 6566.48 5393478235 35006.4 6631.60 5576998060 33218.7 5636.02 5527101950 36822.4 6019.68 5757992154 44560.3 7377.53 6540626174 43826.7 7023.51 6283204556 52719.4 8530.65 6557581256 63842.6 10297.19 7634150764 83535.9 12430.94 9362766022 103090.5 14083.40 10587295020 126414.1 15841.37 12090236910 162904.2 18876.50 14174782323 185295 19733.23 15864753215	India's Exports (US \$ Million)Real India's ExportsWorld's Imports (1000 \$)Unit Value Index of India's Exports (Base 1978-79 = 100)17865.26107.763624950056369.518537.24238.483883352798421.522238.33909.983793677433474.126330.54690.634322481816494.631794.95323.595153894556484.23369.76566.485393478235504.735006.46631.605576998060589.43218.75636.025527101950611.736822.46019.685757992154604.044560.37377.536540626174624.043826.77023.516283204556618.052719.48530.656557581256620.063842.610297.197634150764672.083535.912430.949362766022732.0103090.514083.401058729500798126414.115841.371209023691086316290.218876.5014174782323939.018529519733.2315864753215963.4	

TABLE - 1. EXPORT DEMAND FOR INDIA

Source: IMF, International Financial Statistics, Various Issues The analysis of export demand

Government of India, Economic Survey, Various Issues

Food and Agricultural Organization Statistics

EXPORT DEMAND FUNCTION OF KERALA

The analysis of export demand of India gives rise to an important question whether all the states reflect the same behaviour. As a case study, Kerala has been chosen (Refer Table - 1 (A)). As mentioned earlier, Kerala is a leading agro based export state of the country. An attempt was made to estimate the export demand incorporating the real world imports (RWM), unit value index of India's exports (UVX) and World Import Price Index (WMPX) as the independent variables. The formulated function goes as follows:

(2)

$InX_d = \alpha_0 + \alpha_1 (InRWM)_t + \alpha_2$	2 (InUVX) t +	α 3 (InMPX) t + ut
Where X _d	=	Export Dem

Xd	=	Export	Demand of Kerala
RWN	1	=	Real World's Imports
UVX		=	Unit Value Index of India's Exports
WM	РХ	=	World's Import Price Index
ut		=	Error Term
		FUNCTION	

ESTIMATION AND INTERPRETATION OF FUNCTION

The present section is devoted to study the impact of the above independent variables on export demand on the exports from Kerala on the whole. The estimated equations are:

 $= -8.141 + 0.035\alpha_1 + 2.239\alpha_2 + 0.659\alpha_3 + u_t$

 $(R^2 = 0.944)$

Kerala

The results indicate that R² values are high for all the equations presented in the table. It ranges at 94 percent which implies that 94 percent of changes in export demand is explained by the changes in hypothesized variables. The real world imports, the unit value index of India's exports and world import price index shows a positive influence on the dependent variable namely Export demand of Kerala. The coefficients arrived at for unit value index is statistically significant and goes against our theoretical expectations. It is understood that foreign consumers do not switch their demand between imports and domestic goods and a higher price of exports for Indian goods does not lead to a decrease in demand for the products. The F values are also significant for Kerala. Theoretically also it is found that the exports are facing cut throat competition from other countries and heavy fluctuations are noticed in the exports of these commodities. The Durbin Watson test reveals that there is auto correlation among the identified variables for the commodities exported from Kerala.

TABLE (A) EXPORT DEMAND FOR KERAL

TABLE - 1(A): EXPORT DEMAND FOR RERALA					
Years	Kerala's Exports (US \$	Real India's	World's Imports (1000	Unit Value Index of India's Exports (Base	World's Import Price
	Million)	Exports	\$)	1978-79 =100)	Index
1991-92	1648.01	563.42	3624950056	369.5	99.8
1992-93	1757.73	390.99	3883352798	421.5	90.7
1993-94	2481.55	370.75	3793677433	474.1	99.2
1994-95	3480.23	523.42	4322481816	494.6	105.4
1995-96	4088	703.65	5153894556	484.2	116.1
1996-97	4435.71	844.28	5393478235	504.7	114.7
1997-98	4898	878.88	5576998060	589.4	108.5
1998-99	5673.14	962.53	5527101950	611.7	101.6
1999-00	5681.26	928.77	5757992154	604.0	99.7
2000-01	5689.05	941.90	6540626174	624.0	100.0
2001-02	6251.2	1001.79	6283204556	618.0	96.3
2002-03	6532.76	1057.08	6557581256	620.0	95.8
2003-04	5980.45	964.59	7634150764	672.0	104.6
2004-05	8033.73	1195.50	9362766022	732.0	114.4
2005-06	10122.84	1382.90	10587295020	798	121.6
2006-07	10336.8	1295.34	12090236910	863	122.5
2007-08	11322.7	1312.02	14174782323	939.0	120
2008-09	12828.37	1366.17	15864753215	963.4	106

Source: IMF, International Financial Statistics, Various Issues

Government of Kerala, Economic Review, Various issues

TABLE - 3: EXPORT DEMAND OF INDIA AND KERALA: ESTIMATED EQUATION DEPENDENT VARIABLE: REAL EXPORT DEMAND TIME PERIOD 1991-92 TO 2008-09

Explanatory Variables	India	Kerala
Constant	-20.366	-8.141
	(-5.139)*	(-0.818)
InRWM	1.174	0.035
	(3.804)*	(0.045)
InUVX	0.383	2.239
	(1.306)	(3.042)
InWMPX	0.142	0.659
	(0.643)	(1.184)
R ²	0.994	0.944
Adjusted R ²	0.992	0.927
F	536.103	55.019
Durbin Watson	1.116	1.094

Notes: 1. Figures in parenthesis are t-statistics

2.*, **, and *** indicate significance at 1%, 5% and 10% level, respectively for a two tail test.

Source: Computed

STRUCTURAL STABILITY FOR DEMAND OF EXPORTS OF INDIA AND KERALA

It is important to have stability in the structure of exports because it determines the growth of various sectors in the long run. Inconsistencies in the structure of exports may lead to unstable growth of local industries and sectors. In any study on export behavior, the stability of it is very crucial. So an attempt to study the structural stability of demand for exports is made in this section. The stability of export is studied using Chow Test (Chow 1960). This test is based on a comparison of the sum of squared residuals appeared by fitting a single regression equation of the model to the entire sample with the sum of squared residuals obtained when separate equations fit to each sub sample of the data. This test assumes that the error variances are equal in sub samples. The null hypothesis for such test is that the estimated error variances do not differ significantly with each other.

The parameter stability test has been performed for long-run elasticities of export (Table - 3). The null hypothesis is that there was no structural break of export demand equation in 1991 trade liberalization policy. Alternative hypothesis is that there has been a structural break or instability in export demand and supply function. For such study, the Chow breakpoint test follows three steps. Firstly, the entire sample (1991-92 to 2008-09) has been split in two phases and the first sub-sample (1991-92 to 1999-00) was used to obtain initial elasticity estimates. Secondly, the elasticities have been re-estimated with the second sub-sample (2000-01 to 2008-09). Finally, it has been tested whether the coefficients differ in the second sub-sample by the F test. The calculated F statistics have been presented in Table 4. It is observed that F*> F_{0.05}, (1167.5) and therefore it is inferred that the structural variation is present for India and it enables the researcher to accept the alternative hypothesis.

TABLE 3: TEST FOR EQUALITY OF ERROR VARIANCES IN SUB-SAMPLES FOR INDIA'S EXPORT DEMAND

Sub-Sample Period	Residual Sum of Squares	Degrees of Freedom	Error-Variance
1991-92 to 1999-00	0.007	4	0.4214
2000-01 to 2008-09	0.002	4	0.2266

Source: Computed

TABLE 4: CHOW TEST FOR THE STABILITY OF EXPORT DEMAND FUNCTION FOR INDIA

	Calculated Value	5% Critical Value
Real Export Demand InX _d	F- Statistics (4,9) = 1167.50	3.63
Source: Computed		

CONCLUSION

In this study, using econometric model, the factors determining demand of exports from India has been explored and are found to be predominant in explaining India's disaggregate export performance during 1991-92 to 2008-09. Most exports are found to be responsive to world imports. On the upswing of international growth trajectory, exports are found to have responded to growing world demand. The estimated results indicate that world import, unit value of exports and import price affect India's real exports positively.

The results highlight the importance of demand effects in providing a viable strategy towards export growth. While prices provide the incentives for exports, world import was found to be significant in determining India's disaggregate export behaviour. In order to understand the stability of exports, Chow Test was used. The demand functions of export for the two time periods are not similar. This implies that the economic reform policy measures do have an impact on the export demand function.

REFERENCES

- 1. Agarwal.P, Gokarn.S.V, Mishra.V, Parikh.K.S, and Sen.K (2000), "Policy Regimes and Competetiveness", ISEAS.
- 2. Amal Sarkar (2006), "Structural Stability of India's Export Demand Function: An Empirical Analysis", Foreign Trade Review, Vol.XLI No.3, October December.
- 3. Arize, A., 1990: "An Econometric Investigation of Export Behaviour in Seven Asian Developing Countries", Applied Economics, 22(7) pp. 891-904.
- 4. Bhattacharya.B., Mukhopadhyay.S. and Panda.B (1996), "India's Trade Liberalization since 1991: A Statistical Appraisal", Indian Institute of Foreign Trade, New Delhi, Occasional Paper No.6.
- 5. Bhattacharyya.B (2001), "Export Performance: Increasing Competitiveness through New Sources of Productivity Growth", Indian Institute of Foreign Trade: New Delhi, Occasional Paper No.18.
- 6. Carone. G (1996), "Modeling the US Demand for Imports through Cointegration and Error Correction", Journal of Policy Modeling, vol.18, No.1, pp.1-48
- 7. Chow, Gregory C. (1960), "Tests of Equality between Sets of Coefficients in Two Linear Regression", Econometrica, Vol.28, No.3, pp.591-605.
- 8. Goldstein, M., and M. S. Khan (1978) "The Supply and Demand for Exports: A Simultaneous Approach", *Review of Economics and Statistics*, 60 (2) pp. 275-86.
- 9. Helleiner, GK, 1992, Introduction, in GK Helleiner (ed), Trade Policy, Industrialisation, and Development: New Perspectives: Oxford, Clarendon Press.
- 10. Hajra.S and Sinate D.L (1997), "Fifty Years of India's Exports during the 1990s", Economic and Political Weekly, Vol.36 No.44, November 3 pp.4222-4230.
- 11. Houthakker.H.S and Magee.S (1969), "Income and Price Elasticities in World Trade", Review of Economics and Statistics, Vol. 61, pp.111-125
- 12. Ifzal Ali (1994), "Estimating the Determinants of Export Supply in India, Indian Economic Journal, January March, pp. 12
- 13. Joshi.V and Little.I.M.D (1996), "India's Economic Reforms 1991-2001, Clarendon Press, Oxford.
- 14. Lall.S (1987), "Learning to Industrialize: The Acquisition of Technological Capability by India", Macmillan, London.
- 15. Marjit.S and Chaudhri.A.R (1997), "India's Exports", Oxford University Press, Delhi.

www.ijrcm.org.in

- Muscatelli, V. A. and S. Hurn (1992) "Co integration and Dynamic Time Series Models", Journal of Economic Surveys, 6 (1) pp. 1-43. 16.
- 17. R.J.Ball, J.R.Eaton, M.D. Steuer, (1966) "The relationship between United Kingdom Export Performance in Manufactures and the Internal Pressure of Demand", *Economic Journal*, Volume 76, September, pp. 501-518 Sarkar.A (2004), "A Trade Linkage System for SAARC", *Foreign Trade Review*, Vol. XXXIX, No.2, pp. 3-42.
- 18.
- Srinivasan T.N (1996), "India's Export Performance: A Comparative Analysis", India's Economic Reforms and Development, Essays for Manmohan Singh 19. (OUP).
- 20. Tendulkar S.D (1999), "Exports in India's Growth Process", ICRIER Working Paper No.46.
- 21. Winter.L. Alan (1984), "Separability and the Specification of Foreign Trade Functions", Journal of International Economics, 17, pp. 239-263.



REQUEST FOR FEEDBACK

Dear Readers

At the very outset, International Journal of Research in Commerce, Economics & Management (IJRCM) acknowledges & appreciates your efforts in showing interest in our present issue under your kind perusal.

I would like to request you to supply your critical comments and suggestions about the material published in this issue as well as on the journal as a whole, on our E-mails i.e. **infoijrcm@gmail.com** or **info@ijrcm.org.in** for further improvements in the interest of research.

If you have any queries please feel free to contact us on our E-mail infoijrcm@gmail.com.

I am sure that your feedback and deliberations would make future issues better – a result of our joint effort.

Looking forward an appropriate consideration.

With sincere regards

Thanking you profoundly

Academically yours

Sd/-

Co-ordinator