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

Ulrich's Periodicals Directory @, ProQuest, U.S.A., EBSCO Publishing, U.S.A., Cabell's Directories of Publishing Opportunities, U.S.A.

as well as in Open J-Gage, India [link of the same is duly available at Inflibnet of University Gra Registered & Listed at: Index Copernicus Publishers Panel, Poland

Circulated all over the world & Google has verified that scholars of more than Hundred & Thirty Two countries/territories are visiting our journal on regular basis.

CONTENTS

Sr. No.	TITLE & NAME OF THE AUTHOR (S)	Page No.
1.	EXAMINING THE EFFECT OF DECLARATION OF INITIAL PUBLIC OFFERING ON SHARE PRICE AND RETURN: EVIDENCE FROM TEHRAN STOCK EXCHANGE MANSOUR GARKAZ	1
2.	ODE TO THE FABRIC OF DESERT: THE SANCTUARY WAY DR. ASHA ALEXANDER	5
3.	CASH DIVENDS ANNOUNCEMENTS AND IMPACT ON THE SHARE PRICES OF LISTED COMPANIES IN COLOMBO STOCK EXCHANGE IN SRI LANKA SKANTHAVARATHAR RAMESH	11
4.	THE MANAGEMENT OF SMALL AND MEDIUM ENTERPRISES TO ACHIEVE COMPETITIVE ADVANTAGES IN NORTHERN THAILAND DR. RATTANAN PONGWIRITTHON & SURACHAI UTAMA-ANG	16
5.	FUNDS GENERATION AND MANAGEMENT IN ONDO STATE LOCAL GOVERNMENT, NIGERIA DR. FELIX OLURANKINSE	22
6.	DEMOGRAPHICAL ANTECEDENTS IN DECISIONAL AUTONOMY OF WOMEN ENTREPRENEURS: A CASE STUDY OF WOMEN ENTREPRENEURS OF LAHORE, PAKISTAN NOREEN ZAHRA & KASHIF MAHMOOD	27
7.	IMPACT OF INTELLECTUAL CAPITAL ON THE FINANCIAL PERFORMANCE OF LISTED COMPANIES IN TEHRAN STOCK EXCHANGE MANSOUR GARKAZ	32
8.	HOSPITALITY INDUSTRY CSR WITH MARKETING USP – CASE STUDY OF TAJ HOTELS & IHM-A DR. S. P. RATH, DR. SHIVSHANKAR K. MISHRA, SATISH JAYARAM & CHEF LEEVIN JOHNSON	35
9.	HOUSING IN RURAL INDIA: AN OVERVIEW OF GOVERNMENT SCHEMES IN KARNATAKA DR. VILAS M. KADROLKAR & DR. NAGARAJ M. MUGGUR	44
10.	TRENDS AND GROWTH OF PUBLIC EXPENDITURE IN INDIA DURING 2001-12 DR. MANOJ DOLLI	51
11.	FINANCES OF SCHOOL OF DISTANCE EDUCATION OF ANDHRA UNIVERSITY, VISAKHAPATNAM: AN APPRAISAL DR. G. VENKATACHALAM & DR. P.MOHAN REDDY	57
12.	THE IMPACT OF MGNREGA ON THE LIVING CONDITION OF RURAL POOR IN RURAL ECONOMY WITH SPECIAL REFERENCE TO GULBARGA DISTRICT IN KARNATAKA STATE ANIL KUMAR.B.KOTE & DR. P. M. HONNAKERI	62
13.	CONCERNS OF FOOD SECURITY IN INDIA AMIDST ECONOMIC CRISIS DR. ZEBA SHEEREEN	66
14.	ATTAINING SUSTAINABLE DEVELOPMENT THROUGH GREEN BANKING DR. SARITA BAHL	70
15 .	A STUDY OF HOUSING DEVELOPMENT PROGRAMMES IN KANCHIPURAM DISTRICT, TAMILNADU	75
16.	R. RETHINA BAI & DR. G. RADHA KRISHNAN THE EFFECT OF PARENTAL INTERVENTION ON THE FAMILY PROBLEMS OF LATE ADOLESCENTS DR. KALYANI KENNETH & SEENA P.C	83
17.	EFFECT OF INDEX FUTURE TRADING AND EXPIRATION DAY ON SPOT MARKET VOLATILITY: A CASE STUDY OF S&P CNX NIFTY DR. BAL KRISHAN & DR. REKHA GUPTA	86
18.	COMPARATIVE ANALYSIS OF PER SHRE RATIO OF SOME SELECTED INDIAN PUBLIC SECTOR BANKS DR. SHIPRA GUPTA	89
19.	CONSUMPTION PATTERN OF CONVENIENCE GOODS: A STUDY WITH RURAL CONSUMERS V. SYLVIYA JOHNSI BAI	97
20.	MOTIVATORS AND MOTIVATIONAL ASPECTS OF THE WOMEN ENTREPRENEURS IN RURAL AREAS DR. M. JAYASUDHA	100
21.	HANDLOOM INDUSTRY IN RELATION TO ITS PRODUCTION ORGANIZATION: A SOCIO-ECONOMIC STUDY IN TWO DISTRICTS OF WEST BENGAL CHITTARANJAN DAS	103
22.	A STUDY ON PUBLIC ATTITUDE AND CONTRIBUTION TOWARDS POVERTY ALLEVIATION L. VIJAY & M. GANDHI	109
23.	DETERMINENTS OF PEOPLE'S PARTICIPATION IN JOINT FOREST MANAGEMENT: A STUDY IN VISAKHAPATANAM DISTRICT OF ANDHRA PRADESH DR. D. NARAYANA RAO	112
24.	AN ECONOMETRIC FRAMEWORK OF POLYTHENE INDUSTRIAL COOPERATIVES IN TAMIL NADU GANDHIMATHY B	117
25.	THEORITICAL PERSPECTIVES OF DOMESTIC VIOLENCE: AN OVERVIEW RAIS AHMAD QAZI & MOHD YASIN WANI	122
26.	FDI INFLOWS IN INDIA TRENDS AND PATTERNS SIRAJ-UL-HASSAN RESHI	127
27.	WOMEN EMPOWERMENT AND PREGNENCY COMPLICATIONS	135
28.	ARCHANA KESARWANI A CRITICAL ANALYSIS OF MGNREGS USING MARSHALLIAN FRAMEWORK MOUMITA BAGCHI	143
29.	A STUDY ON SMALL RUMINANTS AS A SOURCE OF INCOME AMONG THE FARMERS OF PALLIPATTI PANCHAYAT M. ELAGOVAN	147
30.	INSURANCE LEADERS AND ENTREPRENEURS ON EMOTIONAL MANAGEMENT AND PSYCHOLOGICAL EMPOWERMENT DILIOT SOIN	150
	REQUEST FOR FEEDBACK	154

CHIEF PATRON

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

PATRON

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

DR. PRIYA RANJAN TRIVEDI

Chancellor, The Global Open University, Nagaland

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

Professor, Bharti Vidyapeeth University Institute of Management & Research, New Delhi

CO-EDITOR

DR. SAMBHAV GARG

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

EDITORIAL ADVISORY BOARD

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. ANIL CHANDHOK

Professor, Faculty of Management, Maharishi Markandeshwar University, Mullana, Ambala, Haryana

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, Dept. of Commerce, School of Business Studies, Central University of Karnataka, Gulbarga

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

Principal, Aakash College of Education, Chander Kalan, Tohana, Fatehabad

DR. VIKAS CHOUDHARY

Asst. Professor, N.I.T. (University), Kurukshetra

TECHNICAL ADVISORS

MOHITA

Faculty, Yamuna Institute of Engineering & Technology, Village Gadholi, P. O. Gadhola, Yamunanagar

AMITA

Faculty, Government M. S., Mohali

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

SUPERINTENDENT

SURENDER KUMAR POONIA

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; Management 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 and 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: infoijrcm@gmail.com or info@ijrcm.org.in.

GUIDELINES FOR SUBMISSION OF MANUSCRIPT

OR .	
SUBMISSION OF MANUSCRIPT IN THE AREA OF	
nce/Marketing/HRM/General Management/Economics/Psychology/Law/Con	nputer/IT/Engineering/Mathematics/other, please specify)
/MADAM	
d my submission of manuscript entitled '	' for possible publication in your journals.
ffirm that the contents of this manuscript are original. Furthermore, it has nei iew for publication elsewhere.	ther been published elsewhere in any language fully or part
at all the author (s) have seen and agreed to the submitted version of the manu	uscript and their inclusion of name (s) as co-author (s).
y/our manuscript is accepted, I/We agree to comply with the formalities as	s given on the website of the journal & you are free to p
on in any of your journals.	
CORRESPONDING AUTHOR:	
on:	
with full address, contact numbers & Pin Code:	
al address with Pin Code:	
umber (s):	
Number (s):	
dress:	
E-mail Address:	

- The sender is required to mention the following in the **SUBJECT COLUMN** of the mail:
 - New Manuscript for Review in the area of (Finance/Marketing/HRM/General Management/Economics/Psychology/Law/Computer/IT/ Engineering/Mathematics/other, please specify)
- There is no need to give any text in the body of mail, except the cases where the author wishes to give any specific message w.r.t. to the manuscript.
- The total size of the file containing the manuscript is required to be below 500 KB.
- e) Abstract alone will not be considered for review, and the author is required to submit the complete manuscript in the first instance.
- The journal gives acknowledgement w.r.t. the receipt of every email and in case of non-receipt of acknowledgement from the journal, w.r.t. the submission of manuscript, within two days of submission, the corresponding author is required to demand for the same by sending separate mail to the journal.
- 2. MANUSCRIPT TITLE: The title of the paper should be in a 12 point Calibri Font. It should be bold typed, centered and fully capitalised.
- AUTHOR NAME (S) & AFFILIATIONS: The author (s) full name, designation, affiliation (s), address, mobile/landline numbers, and email/alternate email 3. address should be in italic & 11-point Calibri Font. It must be centered underneath the title.
- ABSTRACT: Abstract should be in fully italicized text, not exceeding 250 words. The abstract must be informative and explain the background, aims, methods, 4. results & conclusion in a single para. Abbreviations must be mentioned in full.

- 5. **KEYWORDS**: Abstract must be followed by a 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.
- 6. MANUSCRIPT: Manuscript must be in <u>BRITISH ENGLISH</u> prepared on a standard A4 size <u>PORTRAIT SETTING PAPER</u>. 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 every page. It should be free from grammatical, spelling and punctuation errors and must be thoroughly edited.
- 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 follow the following sequence:

INTRODUCTION

REVIEW OF LITERATURE

NEED/IMPORTANCE OF THE STUDY

STATEMENT OF THE PROBLEM

OBJECTIVES

HYPOTHESES

RESEARCH METHODOLOGY

RESULTS & DISCUSSION

FINDINGS

RECOMMENDATIONS/SUGGESTIONS

CONCLUSIONS

SCOPE FOR FURTHER RESEARCH

ACKNOWLEDGMENTS

REFERENCES

APPENDIX/ANNEXURE

It should be in a 8 point Calibri Font, single spaced and justified. The manuscript should preferably not exceed 5000 WORDS.

- 10. **FIGURES &TABLES**: These should be simple, crystal clear, centered, separately numbered & self explained, and **titles must be above the table/figure**. **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. 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 the 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, Nigeria.

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, Political Weekly, Viewed on January 01, 2012 http://epw.in/user/viewabstract.jsp

AN ECONOMETRIC FRAMEWORK OF POLYTHENE INDUSTRIAL COOPERATIVES IN TAMIL NADU

GANDHIMATHY B LECTURER DEPARTMENT OF ECONOMICS PERIYAR UNIVERSITY SALEM

ABSTRACT

As an alternative to the paper bags, the polythene bags was introduced for packing material and widely used in many household items. It has a credit of cheap, light weight and portability, with its intrinsic values of non-bio degradable, hazardous and unfriendly to environment. Under cooperative manifestation, the polythene industries are in the category of industrial cooperatives. Forestry, agriculture, horticulture, consumer cooperative stores and other cooperative organizations are the major customers of the unit. The remuneration for worked laboures is given either shift basis (Purposively for male) or piece basis (for female) at the end of every month. Data analysis pertains to both State and district level for aggregate and individual respectively. The pattern of paid up share capital from growth orientation is not satisfactory as it gives negative results of CAGR. However, in terms of profit and loss, the societies are progressive scale. The stochastic production function is used to find the rate of returns of the industrial cooperatives and the finding suggests that the societies are under increasing scale. The results of ratio analysis in terms of viability and working capital turn over are moderate. The interrelationship between the economic variables of polythene industry shows that amona all the rewards, the wages have more impact on production.

KEYWORDS

Stochastic Production Function, Trend Analysis and Ratio Analysis and Multiple Regression Analysis.

INTRODUCTION

s an alternative to the paper bags, the polythene bags was introduced for packing material and widely used in many household items. It has a credit of cheap, light weight and portability, with its intrinsic values of non-bio degradable, hazardous and unfriendly to environment. The development of polythene industries traced back to early seventies and got emerging sector during eighties. It is manufactured under government patrol, private and also cooperative regime. Under cooperative manifestation, the polythene industries are in the category of industrial cooperatives. Industrial cooperatives aim to provide employment opportunities to the rural and semi urban areas. They are helpful not only for providing employment opportunities but also absorb excess and crowded laboureres in the agriculture sector and Women laboureres also getting employment opportunities. The Industrial Cooperatives comes under the Ministry of Industries and Commerce, Chennai and there is a separate wing for gathering information. For administrative convenience, the functions of ICs are grouped under twenty heads like tea, coir, sago and starch, polythene, coal and coke, estates, handicrafts, bricks and metals. Today's competitive market parlance, packing is inseparable and it is most welcome by the consumers because of the easy handling. Hence, Polythene Industrial cooperative societies are one among the emerging ICs.

In Salem district Polythene Industrial cooperatives in Salem district is started in the year 1976 with an aim of raising economic status of the members. The works under the society was taken on contract basis. Forestry, agriculture, horticulture, consumer cooperative stores and other cooperative organizations are the major customers of the unit. The remuneration for worked laboures is given either shift basis (Purposively for male) or piece basis (for female) at the end of

A few studies throw light about polythene industries and some studies have undertaken under cooperative regime. According to Macur and Pudlowski (2009), the polythene bags was introduced by USA during 1970's for food package materials and latter it expanded to commercial scale during 1973, and after four years 1977 it is used for glossary items. The wide usage has started in after eighties. The studies like Rajendran and Gandhimathy (2010 and 2011) and Gandhimthy and Rajendran (2011a&b) analyses the significance of industrial cooperative sector in the group of Sago and Starch and Coir. In this line, the author endeavors to analyze the performance of polythene industries under cooperative fold. With this underpinning, the present study has been undertaken to explore the performance of polythene industrial cooperatives at aggregate and individual level. The study is segregated into five sections: the first section gives the introduction and earlier studies, the second section pertains to methodology, the third and the fourth section discusses the results at aggregate and individual levels respectively and the fifth section gives conclusion.

OBJECTIVES OF THE STUDY

- 1. To examine the share capital pattern of polythene industrial cooperatives in Tamil nadu.
- $2. \ To \ analyze \ the \ growth \ of \ polythene \ industrial \ cooperatives \ in \ Tamil \ Nadu.$
- 3. To study the viability position of Polythene industrial cooperatives in Salem district.
- 4. To bring out the extent of relationship between economic variables in the Polythene industrial cooperatives in Salem district.

METHODOLOGY

Data analysis pertains to both State and district level for aggregate and individual respectively. Depending upon the availability, the former data set contains one decade (2000-10) and the latter data set contains three decades (1981-2009). The variables selected for this study are number of societies, membership and their contribution, government contribution, total capital, profit, sales, government and bank loan, sundry debtors, production, working capital, wages, interest, value added. Compound Annual Growth Rate (CAGR) is find out by using the formula of Ending value/Starting Value) 1/n-1 – 1 x 100. Percentage Change = (Current year- Base year/ base year) x100. Economic Viability (EV) = Gross Profit/Working Capital x100. The Working Capital Ratio = Sales / Working capital. The simple and multiple regression model and stochastic production function is analyzed for using SPSS package and Micro soft excel 2007. Pictorial form also exhibited for clear understanding.

AGGREGATE ANALYSIS

As industrial cooperatives are State subject, the data analysis pertains to Tamil nadu Polythene Industrial cooperative societies. The following table shows the growth of paid up share capital.

TABLE - 1: GROWTH OF PAID-UP SHARE CAPITAL

Years	Members	Members contribution	Per Unit members contribution	Government contribution	Total capital	Percentage Change
2000-01	1117	1840	1.65	1212	3052	-
2001-02	1008	1797	1.78	1212	3009	-1.41
2002-03	818	1450	1.77	1012	2462	-18.18
2003-04	1097	2328	2.12	1213	3541	43.83
2004-05	1138	1507	1.32	1013	2520	-28.83
2005-06	1142	999	0.87	1012	2011	-20.2
2006-07	998	925	0.93	988	1913	-4.87
2007-08	1002	969	0.97	1303	2272	18.77
2008-09	996	930	0.93	1329	2259	-0.57
2009-10	804	724	0.9	1569	2293	1.51
M	1012	1346.9	1.324	1186.3	2533.2	-1.11
SD	121.33	521.55	0.46	186.36	513.68	
CV	11.98	38.72	35.32	15.70	20.27	
CAGR	-3.58	-9.84	-6.51	2.91	-3.12	

The table 1 reveals that except government contribution, all other factors have shown the negative growth rate. The members of the society, members' contribution, government contribution and paid up capital is decreasing from year to year as shown by the table. The extent of correlation between profit and sales is identified with the help of simple regression model. The following table 2 shows it.

TABLE - 2: RESULTS OF SIMPLE REGRESSION MODEL FOR PROFIT AND SALES (From 2000-01 to 2009-10)

Trade Type	Unstandardised Co-efficients		Std. Co-efficients			R2 Value
	В	Std.Error	Beta	t	Significance	
Polythene	.269	.048	.892	5.586	.001	.796

Note: Profit dependent variable and sales independent variable.

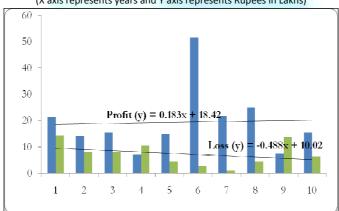
The table 2 indicates that, for every unit increase of sales, the profit increases at 0.29 units. The coefficient of determination is 0.796, hence it indicates that the profit explained by sales is 80 percent and remaining 20 percent is due to non included variable.

TREND ANALYSIS

Financial performances of the societies are identified by taking the values of profit and loss. Trend line equation is constructed for the movement of the society. It shows the financial position of the society. X = Time factor, Profit (y) = Profit amount, Loss (y) = Loss amount. The following chart shows it.

CHART -1: TREND LINES OF PROFIT AND LOSS IN POLYTHENE ICS

(X axis represents years and Y axis represents Rupees in Lakhs)



The average annual increase of profit value of the society is 0.183 lakhs and the average annual loss of the society decreased at 0.488 lakhs. Hence, it is clear that the societies are progressive scale.

STOCHASTIC PRODUCTION FUNCTION MODEL

Stochastic production function serves as a better tool for analyzing production function. It is hypothesized that the variables such as number of societies, workers, members' contribution, government contribution, government loan, bank loan and sundry debtors are the influencing factors for production. Hence, these factors are selected to compute the production function.

Model is constructed for the PICs as Production = f (No of societies (X_1) , Labourers (X_2) , Members Contribution (X_3) , Government Contribution (X_4) , Government Loan (X_5) , Bank Loan (X_6) and Sundry debtors (X_7) .

 $Y = \beta_0 + \beta_1 X_1 + \beta_2 X_2 + \beta_3 X_3 + \dots + \beta_n X_n + \in;$

Y is the dependent variable,

 X_1 , X_2 , X_3 X_n are the independent variables,

 $\beta_0 = constant$

 $\beta_{1,}\beta_{2,}\beta_{3}.....+\beta_{n}$ are the regression co-efficient.

€ =error term.

TABLE - 3: RESULTS (OF THE STOCHASTIC	DRODUCTION EI	INCTION MODEL
IADLE - 5; KESULIS (JE THE STUCHASTIC	PRODUCTION FO	DINCTION MODEL

Independent variable	able Production (Dependent Variable)				
	В	t			
Constant	-3.43	-2.42			
Societies	2.56	2.94			
Workers	38	-2.26			
Members contribution	35	-1.52			
Govt. Contribution	.22	.56			
Govt.loan	02	70			
Bank Loan	.84	5.45			
Sundry Debtors	1.09	7.18			
R2	.98				
F	.98*				
Sum of Regression co-e	Sum of Regression co-efficients 3.964				
Rate of Returns Increasing					
*.05 level of Significance					
$Y = -3.43 + 2.56X_1 - 0.38X_2 - 0.35X_3 + 0.22X_4 - 0.02X_5 + 0.84X_6 + 1.09X7$					

The inferences of the table 3 elaborated that for every increase of the society, production increases at 2.56 units. Establishment of new societies brings more production and there exists a positive association between production and societies. There exists a negative association between workers and production. Some of the workers under the polythene societies are either disguised or unproductive workers. All the workers do not contribute total production because every unit increase of the workers, the production decreases at 0.38 units. It indicates that while employing the laboureres, care should be taken to see that they are actually contributing to the society are disturbing other workers. The members' contribution is negative and for every unit increase of members' contribution, production decreases at 0.35 units. For every unit increase of the government contribution, the production increases at .22 units. The government loan is used for productive purposes like purchase of raw materials. The society borrowed money either for production or repaying the loan amount including service charges and interest. For every unit increase of the government loan production decreases at .02 units, but the bank loan increases the production at 0.84 units. Sundry debtors are the miscellaneous small customers that are not assigned individual ledger accounts but are classified as a group. The sundry debtors are assets of the society, if the borrowers repay the amount at right time. It gives optimistic view about the society.

The statistical significance of the variable is highly fit as it shows the R2 = 0.98. Only two percent is due to other factors and P value also satisfied at five percent. In order to find whether the societies are under increasing/decreasing/constant returns, the researcher sums all the b co-efficients of selected variables. As it is greater than one (3.964), the polythene industrial cooperative societies in Tamil nadu are under Increasing Returns to scale.

CASE STUDY FOR INDIVIDUAL ANALYSIS

Salem district is industrial pooled area and there is demand for polythene bags among various sectors like households, firms, government and cooperative societies. Taking advantage of this, the ministry of industries and commerce was decided to setup the polythene industrial cooperative society during the year 1976 in the Pachnampatty village, Omalur taluk in Salem district. The total area of the society is 1693 sq feet. Per value of share is fifty and maximum share is 100000. The members can avail a minimum of one share to a maximum of 2000 shares. The required raw material and machine are purchased and distributed to the members for ready cash or on credits. The society purchases granels from the Indian Petro Chemicals Corporation Dealers – Steel Tex Agency to make polythene bags. Members' contribution to the society is more in the first half of the study period where as government contribution is more in the second part of the study period.

TABLE - 4: CAGR OF PROFIT IN SALEM DISTRICT

Years	CAGR (%)
1981-91	3.84
1991-01	9.29
2001-09	7.60

The table 4 shows the CAGR of profit of the Omalur Polythene ICs in Salem district. Decadal comparison is made and it shows that during 1981-91, the CAGR is 3.84 percent, 1991-2001, it is 9.29 percent and in the last decade it is 7.60 percent. Relatively, post liberalization first phase (1991-01) had a higher level of growth than other two decades. The quantum of relationship between production and sales is finding out by the correlation matrix computed with the help of SPSS package.

TABLE - 5: CORRELATIONS BETWEEN PRODUCTION AND SALES

		prod	sales
prod	Pearson Correlation	1	.988(**)
	Sig. (2-tailed)		.000
	Sum of Squares and Cross-products	8646150900000.000	11100728700000.000
	Covariance	960683433333.333	1233414300000.000
	N	10	10
sales	Pearson Correlation	.988(**)	1
	Sig. (2-tailed)	.000	
	Sum of Squares and Cross-products	11100728700000.000	14590874100000.000
	Covariance	1233414300000.000	1621208233333.333
	N	10	10

^{**} Correlation is significant at the 0.01 level (2-tailed).

There exists a high degree of relationship between production and sales turn over. The correlation coefficient is 0.988 and P value is highly significant.

RATIO ANALYSIS

Economic viability of the society is finding out by using the ratio analysis. But profit in terms of working capital indicates the economic viability of the society and it is relatively bad condition during mid of the period. From the reference point of view, the working capital ratio is equal to five times. If it is less than five, it indicates idle cash and the society should enhance its trading activities. If it is more than five times, it indicates abuse of the working capital, indicates wastages. Hence, the idle ratio should be nearer or equal to five. The working capital ratio is not good in post liberalization first phase, than pre and post second phase.

TABLE - 6: PERFORMANCE OF OPWICS (1981-09)

Years	EV (%)	WCR (Times)
1981-82	107.91	12.62
1986-87	49.22	2.28
1991-92	55.83	3.08
1996-97	31.18	3.61
2001-02	34.31	2.15
2008-09	4.60	1.94
1981-91	64.14	4.35
1991-01	63.81	4.02
2001-09	33.69	2.44
1981-09	55.32	3.69

The table indicates that during the study period the economic viability is more than fifty percent. In the first decade the viability is relatively better than other two decades. The table four shows that the CAGR of profit is high in the mid nineties. To contradict to this the viability of the society is lower level in this period. It indicates that in absolute terms the growth of profit is good in during 1991-2000, but in terms of working capital and profit, the first phase (1981-2000 is good. The society should try to enhance its trading activities because it is lower than its ideal level. The viability position for the period of three decades is 55 percent.

ORDINARY LEAST SQUARE EQUATION

The trend equation is given that Yt = a+bXt (t = 1,2,.....30). Yt = Character under study, Xt is the time period under study. In this study the characteristics under study are Production (Pr), Wages (W), Purchase (Pu), Membership (M) and Time (T).

TABLE - 7: SUMMARY OF TREND ANALYSIS (1981-2009)

Variables	R2	P value & Significant level	Trend Equation	t value & Significant level
Production (Pr)	0.383	4.976 (0.056)	Pr = 1642333 + 200466.7T	2.231 (.056)
Sales (S)	0.041	5.715 (0.044)	S = 1907600+ 271472.7T	2.391 (0.044)
Wages (W)	0.251	2.677 (0.140)	W = 153866.7-8684.84T	-1.636 (0.140)
Purchase(Pu)	0.822	36.899 (0.000)	Pu = 925116.4+ 308711.2T	6.074 (0.000)
Membership(M)	0.745	23.335 (0.001)	M = 42.733 -2.370T	-4.831 (0.001)

The results revealed that the average annual increase of the production is Rs. 200466. The average annual increase of the sales is Rs.271472.7, the average annual decrease of the wages is Rs.8684, and purchases are rs.308711. The average annual decrease of the membership of the society is two. The wages and membership decreases.

INTER RELATIONSHIP BETWEEN THE ECONOMIC VARIABLES

There are four f actors of production viz., land, labour, capital and organization and their rewards are rent, wages, interest and profit respectively. As the society is situated in own land it need not pay the rent. Hence, excluding rent, other factor rewards such as wages, interest and profit are taken into account. One more variable value added is taken due to its significance. It is hypothesized that value added and factor rewards influences the production function. Hence, in order to find the extent of relationship between production and factor rewards and value added, multiple regression analysis is computed. Production (y) = f (Value Added, Wages, Profit and Interest).

TABLE - 8: MULTIPLE REGRESSION ANALYSIS

TABLE OF MOETH EE MEGNESSION AND METSIS				
Independent variable	Production			
	В	t		
Constant	4.198			
Value Added	0.153	1.053		
Wages	0.376	1.960		
Interest	-0.167	-1.559		
Profit	0.045	3.154		
R2	0.846			
F	6.879			
Y= -4.198+0.153X ₁ +0.3	76X ₂₊ 0.045X ₃ -0	0.167X₄		

There exists a positive relationship between value added and production. For every unit increase of value addition, the production increases at 0.15 units. The excess amount is capital formation, which is used for further investment. If it increases the production also increases. The remuneration given for labourers (wages) and production have positive relationship. Increased wages increases the marginal productivity of labourer. For every unit increase of wages, production increases at 0.37 units. Interest is paid for borrowed capital; hence it shows the negative association between the interest and production. For every unit increase of interest, the production decreases at 0.16 units. There exists a positive correlation between profit and production. The profit amount gives incentives to the society. The society can acquire fund by showing their profit amount. For every unit increase of profit, the production increases at 0.045 units. As the society is cooperative organization, it does not aim at profit. That's why the b co-efficient for profit is relatively smaller than other factor rewards like wages and interest. The profit level is acquired after deducting wages and interest. The co-efficient of determination (R2) value is 0.846 which is statistically significant P value at 0.05 level.

CONCLUSION

This study is an attempt to explore the economic performance of Polythene industrial cooperative societies. The pattern of paid up share capital from growth orientation is not satisfactory as it gives negative results of CAGR. However, in terms of profit and loss, the societies are progressive scale. The stochastic production function is used to find the rate of returns of the industrial cooperatives and the finding suggests that the societies are under increasing scale. From the case study, a few inferences are drawn. The CAGR of individual society is moderately good and the correlation between production and sales is excellent. The results of ratio analysis in terms of viability and working capital turn over are moderate. The interrelationship between the economic variables of polythene industry shows that among all the rewards, the wages have more impact on production.

REFERENCES

- 1. Beata M Macur and Zenon J PUdlowski (2009), Plastic Bags a Hazard for Environment and a Challange for Contemporary Engineering Educators, *World Transactions on Engineering and Technology Education*, 7(2): 122-126.
- 2. Gandhimathy and Rajendrn (2011a), An Inquiry into the Beneficial Effect of Agro Based Industrial Cooperative Society in Salem Region, International Journal of Marketing and Technology, 1(6):216-231.

- 3. (2011b), Empirical Verification of Ratio Analysis in Agro Based Industrial Cooperative society in Salem Region, International Journal of Applied Management Research, 3(2):185-189.
- 4. Rajendran and Gandhimathy (2011), SWOT Analysis of Coir Co-operative marketing Society A Case Study from Salem Region, *Journal of Economic and Social Development*, VII (1):57-63.
- 5. Rajendran and Gandhimathy (2010b) Market structure and Performance of Agro Based Industrial Co-operative Society in Salem Region, *Indian Co-operative Review*, 47(4):258-265.
- 6. http://www.wikipedia.org/wiki/plastic bags.
- 7. http://www.plastic bags.com



REQUEST FOR FEEDBACK

Dear Readers

At the very outset, International Journal of Research in Commerce, Economics and 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

ABOUT THE JOURNAL

In this age of Commerce, Economics, Computer, I.T. & Management and cut throat competition, a group of intellectuals felt the need to have some platform, where young and budding managers and academicians could express their views and discuss the problems among their peers. This journal was conceived with this noble intention in view. This journal has been introduced to give an opportunity for expressing refined and innovative ideas in this field. It is our humble endeavour to provide a springboard to the upcoming specialists and give a chance to know about the latest in the sphere of research and knowledge. We have taken a small step and we hope that with the active cooperation of like-minded scholars, we shall be able to serve the society with our humble efforts.







