



INTERNATIONAL JOURNAL OF RESEARCH IN COMPUTER APPLICATION AND MANAGEMENT

CONTENTS

Sr. No.	TITLE & NAME OF THE AUTHOR (S)	Page No.
1.	ORGANIZATIONAL STORYTELLING: CONCEPTS, CHARACTERISTICS AND ADVANTAGES <i>SKANDAR SHIRAZI, HAMIDEH SHEKARI & SAID MEHDI VEYSEH</i>	1
2.	EXAMINING THE EFFECT OF COMPANY'S SIZE AND RESOURCES ON THE RELATIONSHIP BETWEEN STAKEHOLDERS' PRESSURE AND ENVIRONMENTAL STRATEGIES IN THE MALYSIAN PALM OIL INDUSTRY <i>MOHD RAFI YAACOB</i>	5
3.	CORPORATE GOVERNANCE AND FINANCIAL REPORTING QUALITY: A STUDY OF NIGERIAN MONEY DEPOSIT BANKS <i>SHEHU USMAN HASSAN</i>	12
4.	AN EMPIRICAL STUDY ON TAX PAYER'S ATTITUDE TOWARDS E- RETURN FILING IN INDIA <i>DR. SUJEET KUMAR SHARMA & DR. RAJAN YADAV</i>	20
5.	SPATIAL ANALYSIS OF LAND USE IN MYSORE CITY <i>DR. HARISH. M</i>	25
6.	DRIVERS OF NEW PRODUCT SUCCESS <i>K. VIJAYAN & DR. JAYSHREE SURESH</i>	30
7.	KNOWLEDGE MANGEMENT FOR PERFORMANCE EXCELLENCE <i>DR. S. RAMANATHAN & DR. S. SELVAMUTHUKUMARAN</i>	35
8.	A NEW PARADIGM IN DESIGNING AN ADVERTISEMENT - AN APPLICATION OF REAL TIME DATA WAREHOUSE & DATA MINING IN PREPARATION OF AN AD COPY <i>DR. G. VADIVALAGAN, N. SUGANTHI & M. RAMESHKUMAR</i>	39
9.	UNETHICAL PRACTICE OF MIS-SELLING OF INSURANCE – IMPACT AND SOLUTIONS <i>C. BARATHI, DR. CH. IBOHAL MEITEI & C. D. BALAJI</i>	45
10.	BUSINESS PROCESS DEVELOPMENT IN SERVICE ORIENTED ARCHITECTURE <i>C. K. GOMATHY & DR. S. RAJALAKSHMI</i>	50
11.	VARIANCE OF THE TIME TO RECRUITMENT IN A SINGLE GRADED MANPOWER SYSTEM – SCBZ PROPERTY <i>R. ARUMUGAM & DR. A. PANDURANGAN</i>	54
12.	SURVEY - 3D FACE TRACKING <i>SUSHMA JAISWAL, DR. SARITA SINGH BHADAURIA & DR. RAKESH SINGH JADON</i>	57
13.	AN EMPIRICAL EVALUATION OF INVESTORS INCLINATION ON ULIP INSURANCE PRODUCTS WITH REFERENCE TO DELHI CITY <i>R. SERANMADEVI, DR. M. G. SARAVANARAJ & DR. M. LATHA NATARAJAN</i>	79
14.	A STUDY ON THE TRAFFIC PROBLEMS WITH SPECIAL REFERENCE TO NELLORE DISTRICT <i>KANAGALURU SAI KUMAR</i>	84
15.	A STUDY ON LEAN MANAGEMENT IN CHENNAI PORT <i>R. AKILA & DR. N. THANGAVEL</i>	89
16.	CONSUMER PREFERENCE FOR COSMETICS AMONG COLLEGE GIRLS IN TIRUNELVELI AND THOOTHUKUDI DISTRICTS <i>P. DEVIBALA & DR. A. RANGASWAMY</i>	94
17.	MANAGING NON PERFORMING ASSETS: A STUDY OF INDIAN COMMERCIAL BANKS <i>DR. HIMANSHU SHEKHAR SINGH & DR. AJAY SINGH</i>	99
18.	EMPOWERMENT OF RURAL ODISHA THROUGH CONNECTIVITY (WITH SPECIAL REFERENCE TO KHURDA DISTRICT OF ODISHA) <i>DR. IPSEETA SATPATHY, DR. B. CHANDRA MOHAN PATNAIK & PRABIR KUMAR PRADHAN</i>	103
19.	CHOICE OF CAPITAL STRUCTURE MODEL: AN EMPIRICAL ANALYSIS WITH REFERENCE TO STATIC TRADE-OFF VS PECKING ORDER THEORIES IN BEVERAGE AND ALCOHOL INDUSTRY IN INDIA <i>RAJU DEEPA & DR. RAMACHANDRAN AZHAGAIAH</i>	107
20.	EFFECTIVE MARKETING STRATEGY FOR SMALL SCALE PLASTIC PROCESSING UNITS IN M. I. D. C., JALGAON <i>PRASHANT S. WARKE</i>	112
21.	BUSINESS OPPORTUNITIES AND TRENDS IN INDIA - 'SILVER MARKET AND YOUTH PREMIUM MARKET' <i>DR. M. A. LAHORI</i>	117
22.	JIT BASED QUALITY MANAGEMENT IN INDIAN INDUSTRIES <i>SANDEEP MALIK, NISHANT PAHWA & DR. DINESH KHANDUJA</i>	120
23.	RECENT CASE STUDIES OF RISK IN INFORMATION SECURITY <i>DR. S. KANCHANA RATNAM & T. T. RAJKUMAR</i>	123
24.	RELATIONSHIP BETWEEN JOB STRESS AND EMPLOYEES PERFORMANCE IN DAY TO DAY OPERATIONS OF PRIVATE ORGANIZATIONS AND THE IMPACT OF STRESS ON THE OVERALL PERFORMANCE OF EMPLOYEE <i>VIJAY KUMAR GUPTA</i>	126
25.	CONSUMER AWARENESS TOWARDS MOBILE - BANKING AMONG WORKING PROFESSIONALS <i>RAJAN GIRDHAR & NIDHI BHARDWAJ</i>	134
	REQUEST FOR FEEDBACK	140

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.](#), [Open J-Gate, 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

www.ijrcm.org.in

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

MOHITA

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

ADVISORS

PROF. M. S. SENAM RAJU

Director A. C. D., School of Management Studies, I.G.N.O.U., New Delhi

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

MOHITA

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

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. PARVEEN KUMAR

Director, M.C.A., Meerut Institute of Engineering & Technology, Meerut, U. P.

PROF. H. R. SHARMA

Director, Chhatarpati Shivaji Institute of Technology, Durg, C.G.

PROF. MANOHAR LAL

Director & Chairman, School of Information & Computer Sciences, I.G.N.O.U., New Delhi

PROF. ANIL K. SAINI

Chairperson (CRC), Guru Gobind Singh I. P. University, Delhi

PROF. R. K. CHOUDHARY

Director, Asia Pacific Institute of Information Technology, Panipat

DR. ASHWANI KUSH

Head, Computer Science, University College, Kurukshetra University, Kurukshetra

DR. BHARAT BHUSHAN

Head, Department of Computer Science & Applications, Guru Nanak Khalsa College, Yamunanagar

DR. VIJAYPAL SINGH DHAKA

Head, Department of Computer Applications, Institute of Management Studies, Noida, U.P.

DR. SAMBHAVNA

Faculty, I.I.T.M., Delhi

DR. MOHINDER CHAND

Associate Professor, Kurukshetra University, Kurukshetra

DR. MOHENDER KUMAR GUPTA

Associate Professor, P. J. L. N. Government College, Faridabad

DR. SAMBHAV GARG

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

DR. SHIVAKUMAR DEENE

Asst. Professor, Government F. G. College Chitgappa, Bidar, Karnataka

DR. BHAVET

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

ASSOCIATE EDITORS

PROF. ABHAY BANSAL

Head, Department of Information Technology, Amity School of Engineering & Technology, Amity University, Noida

PROF. NAWAB ALI KHAN

Department of Commerce, Aligarh Muslim University, Aligarh, U.P.

DR. ASHOK KUMAR

Head, Department of Electronics, D. A. V. College (Lahore), Ambala City

ASHISH CHOPRA

Sr. Lecturer, Doon Valley Institute of Engineering & Technology, Karnal

SAKET BHARDWAJ

Lecturer, Haryana Engineering College, Jagadhri

TECHNICAL ADVISORS

AMITA

Faculty, E.C.C., Safidon, Jind

MOHITA

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

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; 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, infoijrcm@gmail.com or info@ijrcm.org.in.

GUIDELINES FOR SUBMISSION OF MANUSCRIPT

1. **COVERING LETTER FOR SUBMISSION:**

DATED: _____

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.

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:

2. **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>

CHOICE OF CAPITAL STRUCTURE MODEL: AN EMPIRICAL ANALYSIS WITH REFERENCE TO STATIC TRADE-OFF VS PECKING ORDER THEORIES IN BEVERAGE AND ALCOHOL INDUSTRY IN INDIA

RAJU DEEPA

PH.D RESEARCH SCHOLAR

DEPARTMENT OF COMMERCE

**KANCHI MAMUNIVAR CENTRE FOR POST GRADUATE STUDIES
(AUTONOMOUS CENTRE WITH POTENTIAL FOR EXCELLENCE BY UGC)
PUDUCHERRY – 605 008**

DR. RAMACHANDRAN AZHAGAI AH

ASSOCIATE PROFESSOR

DEPARTMENT OF COMMERCE

**KANCHI MAMUNIVAR CENTRE FOR POST GRADUATE STUDIES
(AUTONOMOUS CENTRE WITH POTENTIAL FOR EXCELLENCE BY UGC)
PUDUCHERRY – 605 008**

ABSTRACT

This study attempts to determine the predictors of capital structure (CS) in the beverage and alcohol industry in India and also enhance the study to find out the approach followed by these firms to decide their CS. To rationalize this, two controversial theories namely static trade-off theory (STT) and pecking order theory (POT) are tested based on the earlier empirical finding supporting the theories. Correlation and regression are used to find the relation between various independent variables and leverage (LEV). The findings support the POT model, emphasizing that a pecking hierarchy is followed in beverage and alcohol industry in India. Collateral asset and profitability are found to be the major determinants of CS.

KEYWORDS

Capital structure; static trade off theory; pecking order theory; leverage; beverage and alcohol

JEL CLASSIFICATION

G32; G11; G17

INTRODUCTION

Capital structure (CS) theory is one of the most enigmatic fields in finance. It deals with the firm's choice of the types of securities to issue. There are different views on how CS influences the value of the firm however; optimal CS is a question, which the managers themselves find difficult to answer. The earlier empirical works concentrated on exploring the determinants of optimal CS. The work of Modigliani and Miller (1958)¹ has analyzed if debt is a vital part of CS. The advantages from having debt capital in the CS of the firm has led to many researches in the field but still have left it unexplored with hopes for further research. Static trade-off theory (STT) and pecking order theory (POT) are two controversial approaches explaining the firm's behavior in deciding the share of debt capital in their CS. STT explains how trade-off between the benefits and cost leads to well-defined target debt ratios, while POT gives a pecking hierarchy those managers follow in funding CS. Hence, this study attempts to study the model followed in beverage and alcohol industry in India.

BEVERAGE AND ALCOHOL INDUSTRY IN INDIA

India is the world's second largest producer of food next to China, and has the potential of being the biggest with the food and agricultural sector. It is one of the fastest growing economies today and among the world's leading agricultural producers. Agriculture and allied sectors accounted for 15.7% of the GDP in 2009–10. The total food production in India is likely to double in the next ten years and there is an opportunity for large investments in food and food processing technologies, skills and equipment, especially in areas of canning, dairy and food processing, specialty processing, packaging, frozen food/refrigeration and thermo processing. Although India is one of the world's major food producers it accounts for less than 1.5 per cent of international food trade, which indicated a vast scope for both investors and exporters. Consumer expenditure on food, beverages and tobacco in India is forecasted to grow at a CAGR of 12.2% during 2007 to 2011. India is the world's largest market for whisky will also remain as major global spirits market in the coming years. The alcoholic drink value growth for the year 2010 is 16.9% and is forecasted to increase to 31.6% by 2015 while the soft drink volume growth for 2010 is 9.3% and forecasted to grow as 51.7% by 2015 (India Food and Drink Report Q1 2011).

CONCEPTS AND LITERATURE REVIEW

STATIC TRADE-OFF THEORY (STT)

Static trade-off theory (STT) elucidates that a firm follows a target debt-equity ratio and then behaves accordingly. The benefits and costs associated with the debt option sets this target ratio (SyedTahir Hijazi and Yasir Bin Tariq 2006)². In a STT framework the firm is viewed as setting a target debt to value ratio and gradually moving towards it (Myers 1984)³. The benefits from debt tax shield are thus adjusted against cost of financial distress, agency cost, informational asymmetry and transaction cost. The optimal debt level is attained when the marginal value of the benefits associated with debt issues exactly offsets the increase in the present value of the costs associated with issuing more debt (Myers 2001)⁴.

PECKING ORDER THEORY (POT)

The pecking order theory (POT), on the other hand, gives a behavioural explanation of why certain companies follow a hierarchy in financing their CS. This theory also reflects on some rationale arguments, such as asymmetric information and signaling, as well as with flotation costs which are not explicated by the STT. The STT fails to predict the wide degree of cross-sectional and time variation of observed debt ratios which resulted in POT Myers (1984)⁵. Under the pecking hierarchy, firms prefer internal finance and when external finance is required, firms issue the safest security first. They start with debt, then possible hybrid securities such as convertible bonds then perhaps equity as a last resort. The POT explains why the bulk of external financing comes from debt and is consistent with the observation that the most profitable companies within an industry tend to have the least amount of leverage (LEV). This POT suits to large firms with high P and which has enough internal funds in the form of retained earnings and depreciation.

THEORIES IN THE LIGHT OF VARIOUS INDEPENDENT VARIABLES

A number of empirical studies viz., Harris and Raviv, (1991)⁶, Titman and Wessels, (1988)⁷; Rajan and Zingales, (1995)⁸; Bevan and Danbolt (2002)⁹; Mary Hany A.K. Dawood El-Sayeda I. Moustafa and Mohamed S. El-Hennawi (2011)¹⁰; and Ali Mustafa Abdullah Al-Quda (2011)¹¹ have identified firm-level characteristics such as size of the firm (*SIZ*), asset structure (*COLASS*), profitability (*P*), growth (*GROW*), volatility (*VOL*) and non-debt tax shield (*NDTXSH*) as variables influencing the *CS* of firms. These studies also considered these variables as the predictor variables determining the *LEV* of the firm.

(a) PROFITABILITY

TT predicts that, large profit earning firms should have debt capital to get the benefit of tax shield to mitigate the other cost incurred and therefore there exists a positive relation between *P* and *LEV*. And companies with high profit render high level of borrowing capacity, thus resulted in positive relationship of the variables. On the contrary, *POT* elucidates that, highly profitable firms, which have large internal funds available with them, choose to utilize their internal funds first and if external capital is required they choose to issue debt funds to avoid informational asymmetry. Therefore *LEV* decreases with increase in *P* (Kester, C. W. (1986)¹², Titman, S. et al. (1988)¹³, Barton, S. L. et al. (1988)¹⁴, Pinegar, M. J. et al. (1989)¹⁵, Harris, M. et al. (1991)¹⁶, Harries, F. H. De B. (1994)¹⁷, Rajan and Zingales (1995)¹⁸, Jonson, S. A. (1998)¹⁹, Simerly, R. L. et al. (2000)²⁰, Booth, L. et al. (2001)²¹, and Fama and French (2002)²².

(b) GROWTH

According to *STT*, companies with high *GROW* have more risk and higher financial distress costs, thus growth has an inverse relationship with debt level. The *POT* predicts that high-growth firms, typically with large financing needs, will end up with high debt ratios because of the managers' reluctance to issue equity. Smith and Watts (1992)²³ and Fama, E.F., and K. R. French (2002)²⁴ also suggested that high-growth firms consistently use less debt in their *CS*. Therefore, the theory insists on a positive relation between *GROW* and *P*.

(c) COLLATERAL ASSETS

STT argued that higher level of fixed assets serve as collateral *COLASS* for debt financing and this will help the firms to easily access thus give a positive relationship between *COLASS* and debt level. Myers (1984)²⁵ also suggested that issuing debt secured by *COLASS* may reduce the asymmetric information related costs in financing. However, in the view of *POT*, as argued by Harris and Raviv (1991)²⁶, small firms with low level of fixed assets would have more problems of asymmetric information, making them issue more debt, since equity issues could be possible only by under pricing them. On the other hand, firms with higher level of *COLASS* are generally larger firms that can issue equity at fair prices and need no debt finance, therefore there exists a negative relation between *COLASS* and *LEV*.

(d) SIZE

Larger firms have diversified business and therefore have lower possibility of experiencing financial distress (Titman and Wessels 1988)²⁷, which causes for positive relationship between firm size (*SIZ*) and debt level in *STT* approach. Frank and Goyal (2003)²⁸, and Rajan and Zingales (1995)²⁹ argued that larger firms have lesser problem of asymmetrical information, reducing the chances of undervaluation of the new equity issue which encourages large firms to use equity financing, therefore there exists a negative relation between *SIZ* and *LEV*. The work of Titman and Wessels (1988)³⁰ also states that if there is a *SIZ* effect to debt, it will be higher for small firms.

(e) NON-Debt TAX SHIELD

Firms having higher non-debt tax shield (*NDTXSH*), such as R&D expenses or depreciation which reduce total taxable income, rarely introduce new debt into system since *NDTXSH* is more beneficial than tax-shield benefit derived from debt financing which increases the cost of financial distress Huson Joher Ali Ahmed and Nazrul Hisham 2009)³¹. Bradley, Jarrell and Kim, (1984)³², and Harris and Raviv (1991)³³ found empirical evidence of positive relation between *NDTXSH* and debt. MacKie-Mason (1990)³⁴ argument indicates that this relation is positive for profitable firms and negative for highly distressed firms.

(f) VOLATILITY

Bradley, et al. (1984)³⁵, Kester (1986)³⁶, and Titman and Wessels (1988)³⁷ proved that leverage increases with fixed assets, *NDTXSH*, growth opportunities, and firm size and decreases with volatility (*VOL*). Since firms with high earnings volatility have a higher probability of default, investors are less likely to provide financing to such firms.

OBJECTIVES OF THE STUDY AND HYPOTHESES DEVELOPMENT

With the controversial views in respect of the two different *CS* models, it is essential to study the determinants of *CS* in Beverage and Alcohol industry and to analyze the models that suit to the industry. Keeping this point in view, the following objectives are set.

- To study the determinants of *LEV* in beverage and alcohol industry in India.
- To analyze the relation between various determinants and *LEV* in beverage and alcohol industry in India.
- To find out the capital structure theory model that applies to beverage and alcohol industry in India.

HYPOTHESES

The hypotheses, for the purpose of testing the models applied in the industry are as follows:

(a) HYPOTHESES FOR TESTING STT

H_0^1 : There is no significant relation between leverage and size in Beverage and Alcohol industry in India.

H_0^2 : There is no significant relation between leverage and collateral asset in Beverage and Alcohol industry in India.

H_0^3 : There is no significant relation between leverage and non debt tax shield in Beverage and Alcohol industry in India.

(b) HYPOTHESES FOR TESTING POT

H_0^4 : There is no significant relation between leverage and profitability of Beverage and Alcohol industry in India.

H_0^5 : There is no significant relation between leverage and growth of Beverage and Alcohol industry in India.

H_0^6 : There is no significant relation between leverage and volatility of Beverage and Alcohol industry in India.

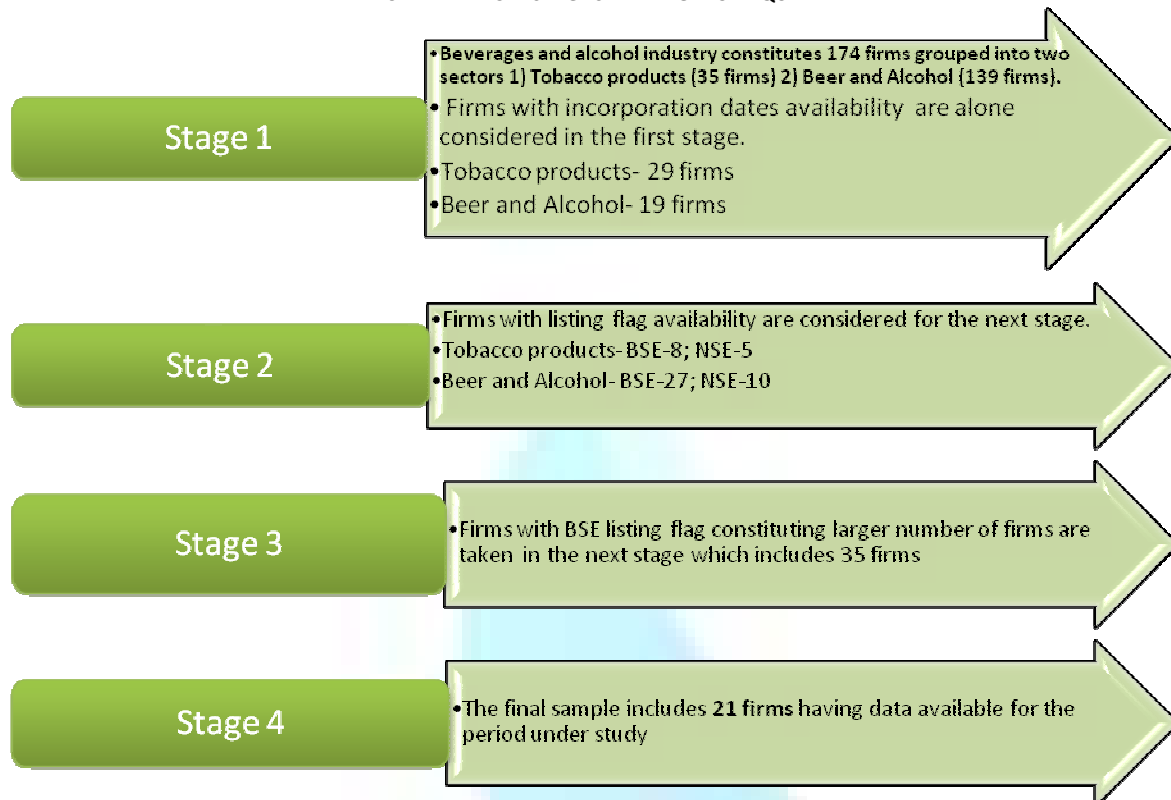
SOURCES OF DATA AND PERIOD OF THE STUDY

The study is based on secondary data, which are collected from Centre for Monitoring Indian Economy (*CMIE*) Prowess package for a period of 10 years on year to year basis ranging from 2000-2001 to 2009-2010 updated as on 7th April 2011.

SAMPLING DESIGN

Multistage sampling technique is used and the different stages followed are shown below:

CHART A: MULTISTAGE SAMPLING TECHNIQUE



Source: Computed results based on compiled data collected from CMIE prowest Pvt. Ltd.

RESEARCH METHODS FOR ANALYSIS

Descriptive statistics such as mean, median and standard deviation are used to neutralize the fluctuation in the value of explained as well as explaining variables. Correlation co-efficient is extensively used to study one-to-one relationship between variables. Multiple regression is also used to determine the various variables that influence the *LEV* in the firms. Appropriate ratios as stated below are used to calculate individual relative properties of the selected variables.

TABLE 1: DESCRIPTION OF MEASURES (RATIOS) USED

Variables	Description	Inference
<i>LEV</i>	Long term debt/Book value of equity	A high value denotes high leverage in terms of long term debt and vice versa
<i>P</i>	PBITD/Fixed Assets	A high value denotes higher profitability in terms of fixed assets
<i>NDTXSH</i>	Ratio of the sum of depreciation and amortization / Total Assets	A high value denotes a higher non debt tax shield and vice versa
<i>COLASS</i>	Ratio of Property, Plant and Equipment / Total Assets.	A high value denotes higher share of fixed asset to total asset, which implies greater share of assets is invested for increasing earning and vice versa
<i>SIZ</i>	Logarithm of Sales over Years	Turnover adjusted for fluctuation over years
<i>GROW</i>	Compounded annual growth rate (CAGR) of total assets	The growth of total asset over years
<i>VOL</i>	Standard deviation of earnings before interest, taxes and depreciation (EBITD) / Total Assets	A high value denotes greater volatility in earnings from the assets invested and vice versa

REGRESSION EQUATION

Titman and Wessels (1988), who measured *CS* simultaneously by the ratios of long-term debt, short-term debt, and convertible debt to the market value of equity found that long-term debt is the most important proxy of capital structure, followed by short-term debt, and then convertible debt. Therefore, this study assumes long-term debt to equity capital as proxy for *LEV*.

EQUATION

$$LEV = \alpha + \beta_1 VOL + \beta_2 COL ASS + \beta_3 NDT XSH + \beta_4 P + \beta_5 SIZ + \beta_6 GROW + \epsilon$$

INDUSTRY ANALYSIS AND FINDINGS

The various explaining variables, the expected sign indicating the kind of relation with *LEV* and the theory supporting the relation between independent and dependent variables are shown in table 2 which forms the basis for the results of analysis to be compared.

TABLE 2: PREDICTOR VARIABLES, EXPECTED SIGN AND SUPPORTING THEORY

Variables	Expected sign	Theory	Proxy
<i>VOL</i>	Negative	Pecking order	Standard deviation of earnings before interest, taxes and depreciation (EBITD) / Total Assets
<i>COLASS</i>	Positive	Static trade-off	Ratio of Property, Plant and Equipment / Total Assets
<i>NDTXSH</i>	Positive	Static trade-off	Ratio of the sum of depreciation and amortization / Total Assets
<i>P</i>	Negative	Pecking order	PBITD/Fixed Assets
<i>SIZ</i>	Positive	Static trade-off	Logarithm of Sales over Years
<i>GROW</i>	Positive	Pecking order	Compounded annual growth rate (CAGR) of total assets

The descriptive statistics show that (see table 3) there is negative sign in the minimum value of *P*, indicating that firms incurring loss are also included in the sample size. *LEV* shows the highest standard deviation (5.145) proving that there are varied level of leveraging policy followed by the firms belonging to

beverage and alcohol industry. The *SIZ* show the next highest level of mean value (2.166) and the standard deviation (.807) is also high, indicating that the firms vary in their turnover size.

TABLE 3: DESCRIPTIVE STATISTICS OF BEVERAGE AND ALCOHOL INDUSTRY IN INDIA

Variables	N	Minimum	Maximum	Mean	Std. Deviation
LEV	21	.350	16.330	5.171	5.145
VOL	21	.016	.318	.066	.066
COLASS	21	.165	.752	.395	.176
NDTXSH	21	.007	.062	.029	.015
P	21	-.134	.740	.283	.234
SIZ	21	.777	4.208	2.166	.807
GROW	21	-.125	.418	.084	.129

Source: Computed results based on compiled data collected from CMIE proweess Pvt. Ltd.

The correlation results show that (see table 4) *GROW* alone has significant (at 5%) positive correlation (.544^{*}) with *LEV*, supporting the *POT*. Therefore, growing firms have insufficient internal funds to finance their opportunities and depend on debt funds, which is the next choice in the pecking hierarchy to avoid informational asymmetry. The hypothesis “H₀⁵: there is no significant relation between leverage and growth” is rejected. Hence, there is a significant relation between *LEV* and *GROW* of Beverage and Alcohol industry in India.

TABLE 4: CORRELATIONS OF DETERMINANTS OF CS OF BEVERAGE AND ALCOHOL INDUSTRY IN INDIA

Variables	LEV	VOL	COLASS	NDTXSH	P	SIZ	GROW
LEV	1						
VOL	.068 .771	1					
COLASS	-.421 .057	-.233 .309	1				
NDTXSH	-.151 .514	-.155 .502	.724** .000	1			
P	.181 .431	-.180 .435	-.565** .008	-.519* .016	1		
SIZ	.339 .133	-.411 .064	-.202 .379	-.295 .194	.655** .001	1	
GROW	.544* .011	-.168 .465	-.413 .063	-.350 .120	.574** .006	.488* .025	1

Source: Computed results based on compiled data collected from CMIE proweess Pvt. Ltd.

*. Correlation is significant at the 0.05 level (2-tailed). **. Correlation is significant at the 0.01 level (2-tailed).

The regression results show that (see table 5) *COLASS* (-20.758) and *P* (-14.016) have significant (at 5% level) negative co-efficient with *LEV*, supporting the *POT*. The profitable firms choose to use their internal funds rather than opting for borrowing through equity capital which reduces the value of equity. The results coincide with the findings of *Harris and Raviv (1991)*. Firms with higher levels of *COLASS* are large firms that can issue equity at fair prices and need no debt finance. Therefore, there exists a negative relation between *COLASS* and *LEV*. The hypotheses H₀² and H₀⁴ are rejected in support of *POT*.

SIZ (3.464) and *GROW* (20.694) have significant positive co-efficient with *LEV*. Thus growing firms rely on debt capital when their internal funds get exhausted supporting *POT*. *SIZ*, on the contrary, shows a positive relation supporting the *STT*. The firms having higher turnover have lesser problem of financial distress and so have more debt capital. This relation can be better explained with the argument of *Titman and Wessels (1989)*, who stated that the relation of *SIZ* to debt will be higher for small firms. Therefore, H₀⁵ is rejected in support of *POT* while H₀¹ is rejected in support of *STT*. *NDTXSH* and *VOL* have insignificant role in determining the *LEV*. Hence, H₀³ and H₀⁶ are accepted. The R² (0.601) value is over 60%, indicating that the regression model determines over 60% of variance in *LEV* while the remaining 40% is determined by other variables. The F stat value (3.508) is also significant at 5% level, indicating that the variance in the dependent variable is explained by variance in independent variables.

TABLE 5: REGRESSION EQUATION ON LEV OF BEVERAGE AND ALCOHOL INDUSTRY IN INDIA

Variables	Coefficients	Std. Error	t value	p value
(Constant)	3.398	5.058	.672	.513
VOL	12.578	15.760	.798	.438
COLASS	-20.758*	8.245	-2.518	.025
NDTXSH	134.065	84.883	1.579	.137
P	-14.016*	6.263	-2.238	.042
SIZ	3.464*	1.613	2.148	.050
GROW	20.694*	8.560	2.418	.030
R ²	0.601			
Adj-R ²	0.429			
F Stat	3.508* (0.025)			

Source: Computed results based on compiled data collected from CMIE proweess Pvt. Ltd.

DISCUSSION ON RESULTS

The table 6 indicates that *POT* is the model supported with regard to *COLASS*, *P* and *GROW* and the positive relation between *SIZ* and *LEV* supports *STT* as justified by *Titman and Wessels (1988)*. But, the firms showing greater turnover are growing firms with upcoming opportunities and therefore have to rely on

debt capital rather than equity capital supporting in real the *POT*. The significant positive relation between *SIZ* and *GROW* (see table 4) also supports this inference about the positive relation between *SIZ* and *LEV*. In general, the *POT* model is followed by firms in beverage and alcohol industry in India.

TABLE 6: THEORY SUPPORTED BY VARIOUS FINANCIAL VARIABLES IN BEVERAGE AND ALCOHOL INDUSTRY IN INDIA

Variables	Expected sign	Observed sign	Theory supported
<i>VOL</i>	Negative	Positive	-
<i>COLASS</i>	Positive	Negative*	Pecking order
<i>NDTXSH</i>	Positive	Positive	-
<i>P</i>	Negative	Negative*	Pecking order
<i>SIZ</i>	Positive	Positive*	Pecking order
<i>GROW</i>	Positive	Positive*	Pecking order

CONCLUSION

India, being the largest producer of world's whisky market and with the forecasted growth rate of 12.2% during 2007 to 2011 in consumer expenditure on food, beverages and tobacco, the study of their *CS* has put forth interesting results about their leveraging policy. The two controversial approaches (*STT* and *POT*) to *CS* are discussed in this study to find out the model that is significantly applied in Indian beverage and alcohol industry. It has been found that the firms follow *POT* model and therefore follow the pecking hierarchy of Myers (1984) in financing their *CS*. Debt capital is given more importance to avail the tax benefit and to avoid the information asymmetry problem. They do not fix a target optimal level of debt equity ratio and try to reach it, thus *STT* fails in the Indian perspective. *COLASS* followed by *P* are considered as important determinants of *LEV* as they have comparatively large 't' values, however *NDTXSH* and *VOL* are found to be insignificant in determining *LEV*.

REFERENCES

- Ahmed, H. J. A., and N. Hisham (2009), "Revisiting Capital Structure Theory: A Test of Pecking Order and Static Order Trade-off Model from Malaysian Capital Market", *Journal of Finance and Economics*, Issue 30, pp. 58-65.
- Ali Mustafa Abdullah Al-Qudah, (2011), "The Determinants of Capital Structure of Jordanian Mining and Extraction Industries: Empirical Evidence", *European Journal of Economics, Finance and Administrative Sciences*, Issue 29, pp. 156-64.
- Barton, S. L., and P. J. Gordon (1988), "Corporate Strategy and Capital Structure", *Strategic Management Journal*, Vol. 9, No.6, (November – December), pp. 623-32.
- Bevan, A. A., and J. Danbolt (2002), "Capital Structure and its Determinants in the UK—A Decompositional Analysis", *Applied Financial Economics*, Vol.12, No.3, pp. 159– 70.
- Booth L., V. Aivazian, A. Demircug-Kunt., and V. Maksimovic (2001), "Capital Structures in Developing Countries", *The Journal of Finance*, Vol.27, No.4, (December), pp. 539 -60.
- Bradley, M., G. J., and E. H. Kim (1984), "On the Existence of an Optimal Capital Structure: Theory and Evidence", *The Journal of Finance*, Vol. 39, p. 857-78.
- Fama, E. F., and K. R. French (2002), "Testing Trade-off and Pecking Order Predictions about Dividends and Debt", *The Review of Financial Studies*, Vol.15, No.1, (Spring), pp. 1-33.
- Frank, M., and V. Goyal (2003), "Testing the Pecking Order Theory of Capital Structure", *Journal of Financial Economics*, Vol. 67, pp. 217-48.
- Harris, F. H. de B. (1994), "Asset Specificity, Capital Intensity and Capital Structure: An Empirical Test", *Managerial and Decision Economics*, Vol. 15, No.6, (November- December), pp. 563-76.
- Harris, M., and A. Raviv (1991), "The Theory of Capital Structure", *The Journal of Finance*, Vol. 46, No.1, (March), pp. 297-355.
- Hijazi, S. T., and Y. B. Tariq (2006), "Determinants of Capital Structure: A Case for the Pakistani Cement Industry", *The Lahore Journal of Economics*, Vol. 11, No. 1 (Summer), pp. 63-80.
- Johnson, S. A. (1998), "The Effect of Bank Debt on Optimal Capital Structure", *Financial Management*, Vol. 27, No.1, (spring), 47-56.
- Kester, C.W. (1986), "Capital and Ownership Structure: A Comparison of United States and Japanese Manufacturing Corporations", *Financial Management*, Vol. 15, No.1, pp. 5-16.
- Mackie-Mason, J. (1990), "Do Taxes Affect Corporate Financing Decisions?", *Journal of Finance*, Vol. 45, pp. 1471-95.
- Mary Hany A.K., I. Dawood El-Sayeda Moustafa, and M. S. El-Hennawi. (2011), "The Determinants of Capital Structure in Listed Egyptian Corporations", *Middle Eastern Finance and Economics*, Issue 9, pp. 83-99.
- Modigliani, F., and M. H. Miller (1958), "The Cost of Capital, Corporation Finance and the Theory of Investment", *The American Economics Review*, Vol. 48, No.3, (June), pp. 261-97.
- Myers, S. C. (1984), "The Capital Structure Puzzle", *The Journal of Finance*, Vol. 39, No.3, (December), pp. 575-92.
- Myers, S. C. (1984). Op. cit. pp. 575-92.
- (2001), "Capital Structure", *The Journal of Economic Perspective*, Vol. 15, No. 2, (Spring), pp. 81-102.
- Pinegar, M. J., and L. Wilbricht (1989), "What Managers Think of Capital Structure Theory: A survey", *Financial Management*, Vol. 18, No.4, (winter), pp. 82-91.
- Rajan, R. G., and L. Zingales. (1995), "What do we know about Capital Structure? Some Evidence from International Data", *The Journal of Finance*, Vol. 50, No. 5, (December), pp. 1421-60.
- Rajan, R. G., and L. Zingales (1995). Op. cit.
- Simerly, R. L., and L. Mingfang (2000), "Environmental Dynamism, Capital Structure and Performance: A Theoretical Integration and an Empirical Test", *Strategic Management Journal*, Vol. 21, No.1, (January), pp. 31-49.
- Smith, Clifford W., and R. L. Watts (1992), "The Investment Opportunity Set and Corporate Financing, Dividend, and Compensation Policies", *Journal of Financial Economics*, Vol. 32, pp. 263-92.
- Titman, S., and R. Wessels, (1988), "The Determinants of Capital Structure Choice", *The Journal of Finance*, Vol. 43, No.1, (March), pp. 1-19.
- Websites
http://indianwine.com/cs/blogs/indian_wine/default.aspx
<http://www.reportlinker.com/p0167169/India-Food-and-Drink-Report-Q1.html>

REQUEST FOR FEEDBACK

Dear Readers

At the very outset, International Journal of Research in Computer Application 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