INTERNATIONAL JOURNAL OF RESEARCH IN COMMERCE, IT & MANAGEMENT



A Monthly Double-Blind Peer Reviewed (Refereed/Juried) Open Access International e-Journal - Included in the International Serial Directories
Indexed & Listed at:

Ulrich's Periodicals Directory ©, ProQuest, U.S.A., EBSCO Publishing, U.S.A., Cabell's Directories of Publishing Opportunities, U.S.A., Open J-Gage, India [link of the same is duly available at Inflibnet of University Grants Commission (U.G.C.)],

Index Copernicus Publishers Panel, Poland with IC Value of 5.09 & number of libraries all around the world. Circulated all over the world & Google has verified that scholars of more than 4255 Cities in 176 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

http://ijrcm.org.in/

CONTENTS

Sr.	TITLE & NAME OF THE AUTHOR (S)	Pag
No.	· · ·	No.
1.	TIME LAG ANALYSIS OF SELECTED INDIAN COMPANIES	1
	DR. RAMANJIT KAUR	
2 .	A STUDY ON WOMEN EMPLOYEE ATTRITION IN IT INDUSTRY WITH SPECIAL REFERENCE TO	5
	TECHNOPARK, THIRUVANANTHAPURAM	
	DR. R. MOHAN KUMAR & A. ASTALIN MELBA	
3.	CUSTOMERS PERCEPTION TOWARDS ELECTRIC TWO WHEELER VEHICLES IN BANGALORE CITY: A	9
	STUDY ON GO GREEN BATTERY OPERATED VEHICLES	
	SANTHOSH.M & RAGHAVENDRA.K.A	
4.	STATUS OF SCHEDULE TRIBES IN TELANGANA REGION	15
	A. LAKSHMI	
5.	COMPANIES ACT 2013: A NEW INITIATIVE TOWARDS CORPORATE GOVERNANCE	18
	BHARAT N. BASRANI	
6.	CATALOGUING OF ISSUES BIRTHING LIFE INSURANCE POLICIES LAPSATION: A CASE STUDY OF	21
-	HARYANA	
	DR. SILENDER SINGH HOODA	
7.	MICROFINANCE AND IT'S PROGRESS IN UTTARAKHAND	24
	GAURAV PANT	
8.	STRATEGIC ISSUES OF MAKE IN INDIA CAMPAIGN	29
0.	DR. SONIA, DR. GARIMA DALAL, YOGITA & SUMEET MALIK	23
9.	THE STUDY OF IMPACT SIMULTANEOUS OF CAPITAL STRUCTURE AND COMPETITIVE POSITION IN	33
9.	PRODUCT MARKET (MARKET SHARE) OF COMPANY LISTED IN TEHRAN STOCK EXCHANGE	33
	YAVAR MOBASHER & MOHAMMAD REZA POURALI	
L O .	SEGMENTATION STUDIES FOR GREEN MARKETING AND THEIR LIMITATIONS	39
	RAJEEV GUPTA	
L 1 .	TRANSFORMING THE NIGERIAN ECONOMY THROUGH FOREIGN DIRECT INVESTMENT: THE ROLE OF	43
	FINANCIAL DEVELOPMENT	
	DR. NSEABASI IMOH ETUKAFIA & DR. AKPAN JAMES WILLIAMS	
L2.	A STUDY OF FEMININE SANITARY WELL BEING OF KORKU TRIBE IN SOUTH MADHYA PRADESH	50
	DR. SUNEELI ANAND & PARTH GUPTA	
13.	A CAPSULIZATION OF REGNANT CONTENTIONS IN HRM	54
	KIRTI S BIDNUR	
14.	MICRO FINANCE INSTITUTIONS (MFIs): AN ANALYSIS OF THEIR FUNCTIONING IN BELLARY DISTRICT	58
	DURGASHAMILI.SUNKARA & GURUDATT.KAMATH B	
15.	VALUE ADDITION ON KENYAN TEAS: EFFECTS ON INTERNATIONAL MARKET SUSTAINABILITY AND	65
	COMPETITIVENESS	
	ESTHER WANJIRU MAINA	
16.	EMPLOYEE RETENTION: MANAGING THE HUMAN RESOURCE IN EDUCATION SECTOR	68
	JWALA HANDOO & TANIA MENGI	
17.	PERFORMANCE EVALUATION OF MUTUAL FUNDS OF ICICI AND SBI	71
	CHILLAKURU ESWARAMMA	
18.	MULTIVARIATE MODEL FOR PREDICTING THE IMPACT OF FIRM SPECIFIC VARIABLES ON FINANCIAL	78
	PERFORMANCE OF AIR INDIA LIMITED	
	SWARICHA JOHRI	
19.	A STUDY ON ECONOMICS OF TOURISM WITH SPECIAL REFERENCE TO VELANKANNI- NAGAPATTINAM	82
	DISTRICT	52
	W.ROSE MARY FLORENCE	
0	INNOVATION CAPACITY: A PREREQUISITE FOR 'MAKE IN INDIA'	
20.	AAINA DHINGRA	89
	REQUEST FOR FEEDBACK & DISCLAIMER	93

A Monthly Double-Blind Peer Reviewed (Refereed/Juried) Open Access International e-Journal - Included in the International Serial Directories
<u>http://ijrcm.org.in/</u>

CHIEF PATRON

PROF. K. K. AGGARWAL

Chairman, Malaviya National Institute of Technology, Jaipur (An institute of National Importance & fully funded by Ministry of Human Resource Development, Government of India) Chancellor, K. R. Mangalam University, Gurgaon

Chancellor, Lingaya's University, Faridabad

Founder Vice-Chancellor (1998-2008), Guru Gobind Singh Indraprastha University, Delhi Ex. Pro Vice-Chancellor, Guru Jambheshwar University, Hisar

FOUNDER PATRON

LATE SH. RAM BHAJAN AGGARWAL

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

FORMER CO-ORDINATOR

DR. S. GARG Faculty, Shree Ram Institute of Business & Management, Urjani

<u>ADVISORS</u>

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. BHAVET

Faculty, Shree Ram Institute of Engineering & Technology, Urjani

EDITORIAL ADVISORY BOARD

DR. RAJESH MODI Faculty, Yanbu Industrial College, Kingdom of Saudi Arabia PROF. SANJIV MITTAL

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

PROF. ANIL K. SAINI

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

DR. SAMBHAVNA Faculty, I.I.T.M., Delhi

INTERNATIONAL JOURNAL OF RESEARCH IN COMMERCE, IT & MANAGEMENT

A Monthly Double-Blind Peer Reviewed (Refereed/Juried) Open Access International e-Journal - Included in the International Serial Directories
<u>http://ijrcm.org.in/</u>

DR. MOHENDER KUMAR GUPTA

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

DR. SHIVAKUMAR DEENE

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

ASSOCIATE EDITORS

PROF. NAWAB ALI KHAN Department of Commerce, Aligarh Muslim University, Aligarh, U.P.

PROF. ABHAY BANSAL

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

PROF. A. SURYANARAYANA

Department of Business Management, Osmania University, Hyderabad

PROF. V. SELVAM

SSL, VIT University, Vellore

DR. PARDEEP AHLAWAT

Associate Professor, Institute of Management Studies & Research, Maharshi Dayanand University, Rohtak DR. S. TABASSUM SULTANA

Associate Professor, Department of Business Management, Matrusri Institute of P.G. Studies, Hyderabad **SURJEET SINGH**

Asst. Professor, Department of Computer Science, G. M. N. (P.G.) College, Ambala Cantt.

FORMER TECHNICAL ADVISOR

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

INTERNATIONAL JOURNAL OF RESEARCH IN COMMERCE, IT & MANAGEMENT A Monthly Double-Blind Peer Reviewed (Refereed/Juried) Open Access International e-Journal - Included in the International Serial Directories http://ijrcm.org.in/

CALL FOR MANUSCRIPTS

We invite unpublished novel, original, empirical and high quality research work pertaining to recent developments & practices in the areas of Computer Science & Applications; Commerce; Business; Finance; Marketing; Human Resource Management; General Management; Banking; Economics; Tourism Administration & Management; Education; Law; Library & Information Science; Defence & Strategic Studies; Electronic Science; Corporate Governance; Industrial Relations; and emerging paradigms in allied subjects like Accounting; Accounting Information Systems; Accounting Theory & Practice; Auditing; Behavioral Accounting; Behavioral Economics; Corporate Finance; Cost Accounting; 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; Rural Economics; Co-operation; Demography: Development Planning; Development Studies; Applied Economics; Development Economics; Business Economics; Monetary Policy; Public Policy Economics; Real Estate; Regional Economics; Political Science; Continuing Education; Labour Welfare; Philosophy; Psychology; Sociology; Tax Accounting; Advertising & Promotion Management; Management Information Systems (MIS); Business Law; Public Responsibility & Ethics; Communication; Direct Marketing; E-Commerce; Global Business; Health Care Administration; Labour 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; International Relations; Human Rights & Duties; Public Administration; Population Studies; Purchasing/Materials Management; Retailing; Sales/Selling; Services; Small Business Entrepreneurship; Strategic Management Policy; Technology/Innovation; Tourism & Hospitality; Transportation Distribution; Algorithms; Artificial Intelligence; Compilers & Translation; Computer Aided Design (CAD); Computer Aided Manufacturing; Computer Graphics; Computer Organization & Architecture; Database Structures & Systems; Discrete Structures; Internet; Management Information Systems; Modeling & Simulation; Neural Systems/Neural Networks; Numerical Analysis/Scientific Computing; Object Oriented Programming; Operating Systems; Programming Languages; Robotics; Symbolic & Formal Logic; Web Design and emerging paradigms in allied subjects.

Anybody can submit the **soft copy** of unpublished novel; original; empirical and high quality **research work/manuscript anytime** in <u>M.S. Word format</u> after preparing the same as per our **GUIDELINES FOR SUBMISSION**; at our email address i.e. <u>infoijrcm@gmail.com</u> or online by clicking the link **online submission** as given on our website (<u>FOR ONLINE SUBMISSION, CLICK HERE</u>).

GUIDELINES FOR SUBMISSION OF MANUSCRIPT

1. COVERING LETTER FOR SUBMISSION:

DATED: _____

THE EDITOR

IJRCM

Subject: SUBMISSION OF MANUSCRIPT IN THE AREA OF

(e.g. Finance/Mkt./HRM/General Mgt./Engineering/Economics/Computer/IT/ Education/Psychology/Law/Math/other, please specify

DEAR SIR/MADAM

Please find my submission of manuscript entitled '_____' for possible publication in one of your journals.

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 elsewhere.

I affirm that all the co-authors of this manuscript have seen the submitted version of the manuscript and have agreed to their inclusion of names as co-authors.

Also, if my/our manuscript is accepted, I agree to comply with the formalities as given on the website of the journal. The Journal has discretion to publish our contribution in any of its journals.

NAME OF CORRESPONDING AUTHOR	:	and the second second
Designation	:	
Institution/College/University with full address & Pin Code	:	
Residential address with Pin Code	:	
Mobile Number (s) with country ISD code	:	
Is WhatsApp or Viber active on your above noted Mobile Number (Yes/No)	:	
Landline Number (s) with country ISD code	:	
E-mail Address	:	
Alternate E-mail Address	:	
Nationality		

A Monthly Double-Blind Peer Reviewed (Refereed/Juried) Open Access International e-Journal - Included in the International Serial Directories http://ijrcm.org.in/

- NOTES:
- a) The whole manuscript has to be in **ONE MS WORD FILE** only, which will start from the covering letter, inside the manuscript. **<u>pdf. version</u>** is liable to be rejected without any consideration.
- b) The sender is required to mention the following in the SUBJECT COLUMN of the mail:

New Manuscript for Review in the area of (e.g. Finance/Marketing/HRM/General Mgt./Engineering/Economics/Computer/IT/ Education/Psychology/Law/Math/other, please specify)

- c) 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.
- d) The total size of the file containing the manuscript is expected to be below 1000 KB.
- e) Abstract alone will not be considered for review and the author is required to submit the complete manuscript in the first instance.
- f) The journal gives acknowledgement w.r.t. the receipt of every email within twenty four hours and in case of non-receipt of acknowledgment 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 a separate mail to the journal.
- g) The author (s) name or details should not appear anywhere on the body of the manuscript, except the covering letter and the cover page of the manuscript, in the manner as mentioned in the guidelines.
- 2. **MANUSCRIPT TITLE**: The title of the paper should be **bold typed**, **centered** and **fully capitalised**.
- 3. AUTHOR NAME (S) & AFFILIATIONS: Author (s) name, designation, affiliation (s), address, mobile/landline number (s), and email/alternate email address should be given underneath the title.
- 4. **ACKNOWLEDGMENTS**: Acknowledgements can be given to reviewers, guides, funding institutions, etc., if any.
- 5. **ABSTRACT**: Abstract should be in **fully italicized text**, ranging between **150** to **300 words**. The abstract must be informative and explain the background, aims, methods, results & conclusion in a **SINGLE PARA**. *Abbreviations must be mentioned in full*.
- 6. **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 stop at the end. All words of the keywords, including the first one should be in small letters, except special words e.g. name of the Countries, abbreviations.
- 7. **JEL CODE**: Provide the appropriate Journal of Economic Literature Classification System code (s). JEL codes are available at www.aeaweb.org/econlit/jelCodes.php, however, mentioning JEL Code is not mandatory.
- 8. **MANUSCRIPT**: Manuscript must be in <u>BRITISH ENGLISH</u> prepared on a standard A4 size <u>PORTRAIT SETTING PAPER</u>. It should be free from any errors i.e. grammatical, spelling or punctuation. It must be thoroughly edited at your end.
- 9. **HEADINGS:** All the headings must be bold-faced, aligned left and fully capitalised. Leave a blank line before each heading.
- 10. **SUB-HEADINGS:** All the sub-headings must be bold-faced, aligned left and fully capitalised.
- 11. MAIN TEXT:

THE MAIN TEXT SHOULD FOLLOW THE FOLLOWING SEQUENCE:

NTRODUCTION
EVIEW OF LITERATURE
NEED/IMPORTANCE OF THE STUDY
STATEMENT OF THE PROBLEM
OBJECTIVES
HYPOTHESIS (ES)
RESEARCH METHODOLOGY
RESULTS & DISCUSSION
FINDINGS
RECOMMENDATIONS/SUGGESTIONS
CONCLUSIONS
LIMITATIONS
SCOPE FOR FURTHER RESEARCH
REFERENCES
APPENDIX/ANNEXURE

The manuscript should preferably range from 2000 to 5000 WORDS.

INTERNATIONAL JOURNAL OF RESEARCH IN COMMERCE, IT & MANAGEMENT A Monthly Double-Blind Peer Reviewed (Refereed/Juried) Open Access International e-Journal - Included in the International Serial Directories http://ijrcm.org.in/

- 12. **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*.
- 13. **EQUATIONS/FORMULAE:** These should be consecutively numbered in parenthesis, horizontally centered with equation/formulae number placed at the right. The equation editor provided with standard versions of Microsoft Word should be utilised. If any other equation editor is utilised, author must confirm that these equations may be viewed and edited in versions of Microsoft Office that does not have the editor.
- 14. **ACRONYMS**: These should not be used in the abstract. The use of acronyms is elsewhere is acceptable. Acronyms should be defined on its first use in each section: Reserve Bank of India (RBI). Acronyms should be redefined on first use in subsequent sections.
- 15. **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. Also check to make sure that everything that you are including in the reference section is duly cited in the paper. 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 parenthesis.
- *Headers, footers, endnotes and footnotes should not be used in the document.* However, you can mention short notes to elucidate some specific point, which may be placed in number orders after the references.

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, 19–23

UNPUBLISHED DISSERTATIONS

• 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.

WEBSITES

Garg, Bhavet (2011): Towards a New Gas Policy, Political Weekly, Viewed on January 01, 2012 http://epw.in/user/viewabstract.jsp

ISSN 2231-5756

CUSTOMERS PERCEPTION TOWARDS ELECTRIC TWO WHEELER VEHICLES IN BANGALORE CITY: A STUDY ON GO GREEN BATTERY OPERATED VEHICLES

SANTHOSH.M ASSOCIATE PROFESSOR DEPARTMENT OF MBA SJB INSTITUTE OF TECHNOLOGY KENGERI

RAGHAVENDRA.K.A ASST. PROFESSOR DEPARTMENT OF MBA, SJB INSTITUTE OF TECHNOLOGY KENGERI

ABSTRACT

The study is based on Customers perception towards Electric vehicles (2-wheelers) in Bangalore City with respect to GO Green BOV. The basic objectives of the study are to analyze consumer perception towards Electric two wheelers and develop strategies for improving B2B sales of Electric Two wheelers and to identify the means to enhance the consumer awareness level towards electric vehicles. An Exploratory research was conducted with a sample of 100 respondents conveniently selected from Bangalore City. A structured questionnaire was administered to capture the primary data from the selected respondents. The data was further analyzed using the SPSS package using the Factor analysis, Co-relation, Regression and Cross-tabulation statistical tools. The study revealed that, there is complete lack of awareness about the Electric Bikes even in a city like Bangalore. Most of the respondents are not convinced about the product benefit as they perceive the product to be of Inferior quality and majority of the existing customers are facing problem with after sales servicing and support. The study suggests the company to educate the people about the product and potential benefits. Improve the product quality as well the battery life. The study concludes that that people's perception about the product is negative but with the support coming forward from the Central govt. and ever increasing prices of petrol, sooner or later the electric bike industry is going to grow drastically

KEYWORDS

awareness, consumer perception, electric vehicles, strategies.

INTRODUCTION

o GreenBOV is the leading manufacturer of Electric two wheeler and three wheeler based out at Bangalore with headquarters in J P Nagar.Go GreenBOV was started in 2007, with an aim to reduce carbon emission and give an eco-friendly environment to the world. Customer base of the company is in entire south at present, but looking for Pan India presence in near future. The parent company of Go GreenBOV ACTD .ACTD was born with a vision to revolutionize policies and create innovative products for the improvement of the sector and the country. Go Green BOV electric two-wheelers are highly advanced with cruise control technology, Theft braking system, Lock braking, International styling, Keyless entry, No number plate, No licensee and a lot of other feature. Go GreenBOV operates throughout Karnataka with a very strong Dealership network. Go Green BOV has the highest number of variants in its product portfolio than any other electric vehicle company in India. Apart from being light on pocket and light on conscience GO Green BOV bikes are easy to use, lightweight and maintenance free providing a stress free experience.

REVIEW OF LITERATURE

Ashish Aggarwal (2014) says that from the research it can concluded that there is strong potential for growth in the electric vehicle industry but it will take some time in India in kickoff because Customers in India are not ready to pay the high price. Also they are very much concerned about the security and quality aspect. Bhupendra Kumar Verma (2011) in his paper sates that on the basis of this study, the following suggestions can be made to help in sales of electric bike more effective. There is need to bring more awareness of various others feature of electric bike brings to a consumer mind by providing them vouchers and literatures in different regional languages. There should be free, fair, justified and honest competition amongst the various electric bike companies. Manufacturer/dealer should be given timely information of the governments Changed policies regarding two wheeler sectors.

Deekshu (2008) found that most of the customers were satisfied with the mileage of the Electric bikes and are convinced about the electric bike benefits and were willing to refer it to their friends. It was found that most of the customers are not satisfied with after sales service. It shows that customers are dissatisfied about after sale service. It was found that maximum number of the customers feel the speed of the Electric bikes to be very low and were not satisfied with the current speed of the bikes. It was found that non-availability of Electric bikes is also a reason for lower market share and consumers not purchasing it.

NEED FOR THE STUDY

The Electric Vehicle (EV) industry is still is nascent stage in India. There is a lot of need to create awareness among the general public to make this alternative model success. While it is for sure that sooner or later the electric vehicle will emerge as a strong component, for the time being there is the need for educating the customers to arouse a need for the product. The objective behind this project is to have a better understanding of the EV market, a SWOT analysis of the EV industry, challenges and opportunities faced by the Industry.

STATEMENT OF THE PROBLEM

A study on Customers perception towards Electric vehicles (2-wheelers) in Bangalore City with respect to GO Green BOV and developing strategies to improve B2B sales of Electric Vehicles.

OBJECTIVES OF THE STUDY

- 1. To analyze consumer perception towards Electric two wheelers
- 2. To develop strategies for improving B2B sales of Electric Two wheelers
- 3. To identify the means to enhance the consumer awareness level towards electric vehicles

INTERNATIONAL JOURNAL OF RESEARCH IN COMMERCE, IT & MANAGEMENT A Monthly Double-Blind Peer Reviewed (Refereed/Juried) Open Access International e-Journal - Included in the International Serial Directories

http://ijrcm.org.in/

HYPOTHESES

H1: There exists a high degree of co-relation between suggesting an e- bike and convinced with Electric bike

H2: There exist a high degree of co-relation between currently used bikes and how convinced is the person about e-bikes

RESEARCH METHODOLOGY

The success of any event heavily depends upon the way chosen for its execution. This includes ensures of some basic question to the specific focus on constraints as well. In other words they can call the methodology as the backbone of any research. It also includes research or study method. Thus when they talk of methodology they not only talk of methodology they not talk of methods but also consider the logic behind the methods they use in the context of their study objective and explain way use are using them so that Study results are capable of being evaluated logically.

RESEARCH TYPE

Exploratory research SAMPLE SIZE 100 SAMPLING AREA Bangalore city SAMPLING TECHNIQUE Convenient sampling DATA COLLECTION TOOLS Structured questionnaire STATISTICAL TOOLS USED

- Chi-square Test
- Co-Relation
- Factor Analysis

STATISTICAL PACKAGE

SPSS Package 17.0

RESULTS AND DISCUSSIONS

1. Demographic attributes

	TABLE 1			
SI no.	Attributes		No. Of respondents	Percentage of respondents
1.	Gender	Male	35	35
		Female	65	65
2.	Age	13- 18	32	32
		19-25	12	12
		26-40	24	24
		41-60	16	16
		Above 60	16	16
3.	Monthly inco	ome 10000 – 2 <mark>000</mark> 0	29	29
		20000 – 349 <mark>99</mark>	42	42
		Above 35000	13	13
		Below 100000	4	4
		Not applicable	12	12
4.	Occupation	Student	23	23
		Salaried	23	23
		House wife	21	21
		Business	21	21
		others	12	12

2. How did you come to know about Electric Bikes?

TABLE 2			
Frequency Percentage			
Friends	20	20	
Internet	20	20	
News paper/Magazines	28	28	
TV	21	21	
Others	11	11	

3. How will you rate your level of awareness towards Electric Vehicles?

TABLE 3				
	Percentage			
Poor	19	19		
Average	7	7		
No option	32	32		
Good	18	18		
Excellent	24	24		

4. Which bike are you using presently?

TABLE 4				
	Frequency	Percentage		
Conventional Bike	73	73		
Electric Bike	27	27		

INTERNATIONAL JOURNAL OF RESEARCH IN COMMERCE, IT & MANAGEMENT A Monthly Double-Blind Peer Reviewed (Refereed/Juried) Open Access International e-Journal - Included in the International Serial Directories <u>http://ijrcm.org.in/</u>
10 5. Which of the factors do you think that prevents you from making the decision of purchasing the electric bikes?

TABLE 5			
	Frequency	Percentage	
Expensive	27	27	
Lack of awareness	12	12	
less km/hour	14	14	
Non availability	22	22	
Benefit	25	25	

6. How is after sales service availability affecting your purchasing decision of electric bikes?

TABLE 6			
	Frequency	Percentage	
least Important	3	3	
Less	30	30	
Neutral	12	12	
Important	16	16	
Very Much Important	39	39	

7. How much are you convinced about the benefits of Electric bikes?

TABLE 7			
	Frequency	Percentage	
Very low	20	20	
Low	15	15	
Moderate	25	25	
High	13	13	
Very High	27	27	

8. How likely that you would suggest an electric bike to your friend?

TABLE 8			
	Frequency	Percentage	
Very low	14	14	
Low	20	20	
Moderate	38	38	
High	10	10	
Very High	18	18	

9. Did advertisement influence your buying decision?

TABLE 9			
	Frequency	Percentage	
Very low	14	14	
Low	20	20	
Moderate	38	38	
High	10	10	
Very High	18	18	

10. To identify the factors that is affecting the sales of Electric Bikes.

TABLE 10				
COMPONENT MATRIX ^a				
	Comp	Component		
	1	2		
Appearance	.806	.079		
Price	478	.619		
Durability	.825	.231		
Uncertainty of Technology	.269	547		
Battery Life	.241	.783		
Extraction Method: Principal Component Analysis.				
a. 2 components extracted.				

Since KMO value is equal to .549, the Factor Analysis is accepted.

Since KMO value is equal to .549, the Factor Analysis is accepted.

From the above factor analysis following 2 factors is being extracted:

DURABILITY & BATTERY LIFE

Inference: Therefore Durability of the bike in the long run, and the small battery life are the two major concern expressed by our respondents. 11. Rate the Following Parameters of an Electric Vehicle on a scale of 1 to 5 in comparison with a Petrol Vehicle.

TABLE 11			
KMO AND BARTLETT'S TEST			
Kaiser-Meyer-Olkin Measure	.585		
	Approx. Chi-Square	104.535	
Bartlett's Test of Sphericity	Df	21	
	Sig.	.000	

Since KMO value is equal to .585, the Factor Analysis is accepted.

TABLE 12				
COMPONENT MATRIX ^a				
	Com	Component		
	1	2		
Performance	.564	356		
Mileage / cost per km	581	.003		
Safety	305	.705		
Design	.701	.287		
Price of the vehicle	.606	.218		
After sales Service	.645	.453		
Extraction Method: Principal Component Analysis				
a. 2 components extracted				

From the above factor analysis following 2 factors is being extracted:

DESIGN & SAFETY

Inference: Therefore Design of the bike and how safe is it while riding, is the two important factors considered by the respondents while comparing with petrol bike.

12. H1: There exist a high degree of co-relation between suggesting an ebike and convinced with ebike

		TABLE 13		
CORRELATIONS				
		How likely that you Would suggest an	How much are you convinced	
		electric bike to your friend?	about the benefits of Electric bikes?	
How likely that you would suggest an electric bike to your friend?	Pearson Correlation	1	.110	
	Sig. (2-tailed)		.276	
	Ν	100	100	
How much are you convinced about the	Pearson Correlation	.110	1	
benefits of Electric bikes?	Sig. (2-tailed)	.276		
	N	100	100	

Since sig 2 Value 0.276 is greater that .05 (5% level of significance) hence H1 is accepted.

From the above data it is evident that, Highly positive Pearson correlation exist between two

variables, when two variables post sales service and responsiveness towards the enquiry in the same direction, the correlation between the two variables is high, if one variable increases by 100, the other variable also increase by 110 according to the results in the table.

13. H2: There exist a high degree of co-relation between currently used bike and how Convinced is the person about e-bikes.

TABLE 14					
CORRELATIONS					
		Which bike are you using presently?	How convinced are you about the Electric Bike benefits?		
Which bike are you using presently?	Pearson Correlation	1	.027		
	Sig. (2-tailed)		.792		
	Ν	100	100		
How convinced are	Pearson Correlation	.027	1		
you about the Electric Bike benefits?	Sig. (2-tailed)	.792			
	Ν	100	100		

Since sig 2 Value .792 is greater that .05 (5% level of significance) hence H2 is accepted.

From the above data it is evident that, Highly positive Pearson correlation exist between two variables, when two variables post sales service and responsiveness towards the enquiry in the same direction, the correlation between the two variables is high, if one variable increases by 100, the other variable also increases by 127 according to the results in the table.

FINDINGS

- There is more no. of petrol vehicles in the market than the Electric ones.
- Media awareness towards electric bikes is very low.
- There is a lack of awareness amongst respondents about the benefits of electric bikes.
- Female customers are now the biggest target segment of EV Industry.
- Purchasing decisions of an electric bike is not much influenced by the advertisements.
- Durability of the bike in the long run, and the small battery life are the two major concern expressed by our respondents.
- Design of the bike and how safe is it while riding, is the two most important factors considered by the respondents while purchasing an electric bike.
- Majority of respondents believe that Electric bikes are expensive.
- Existing customers are highly unsatisfied with the after sales servicing as spares are not readily available.
- There are no well established players in the market, with a good brand name.
- Lack of regulatory authority and safety Standards are a major concern for the industry in the long run.
 - High Charging time, Lower Mileage, low Speed, Less battery life, Durability are the major technical issues faced by the electric bike industry.
- Lack of government support in the form of subsidy and infrastructure development, is affecting the industry.

SUGGESTIONS

- The first major concern for the company is to take concrete steps to improve the level of awareness among the people. Therefore company has to first educate the people about the product by following methods:
- o Visit the school and colleges to teach the students on the need to go for a greener Technology.
- Educate the parents and children about the benefits of having a bike with slow speed, as it makes them a balanced rider.
- Organize Road Shows and Exhibitions to educate the people.
- $\circ \qquad {\sf Team \ Up \ with \ Environment \ Protection \ Groups, NGOs \ to \ promote \ the \ concept \ of \ Go \ Green.}$
- \circ \quad Highlight the economic viability of the product against the rising fuel price.
- To fully charge an Electric Bike it takes around 6-8 hours, which is very long and it is practically impossible to charge on the go.

INTERNATIONAL JOURNAL OF RESEARCH IN COMMERCE, IT & MANAGEMENT

A Monthly Double-Blind Peer Reviewed (Refereed/Juried) Open Access International e-Journal - Included in the International Serial Directories

http://ijrcm.org.in/

VOLUME NO. 5 (2015), ISSUE NO. 08 (AUGUST)

- To eliminate such problems the Company has to start investing on R&D more focus must be on developing Indigenous technology rather than going for Technology Transfer from foreign countries.
- Improve the Mileage of the Bikes by using batteries that is having higher capacity.
- Use ultra Capacitors to reduce the wastage of energy in the process of Motor on & off.
- Development of market strategy to improve the sales:
- o To ride a Petrol bike it is necessary to have a Driving License, hence it is more suited for the age-group of 18-60.
- In order to tap the Market Company shall not only compete with this segment but also focus on the 13-17 age group and above 60 people, who might
 otherwise do not have a DL.
- Focus on the Home-Delivery segment of Hotels, restaurants and pharmacies to educate about the cost -viability.
- o Provide finance option, EMI by collaborating with any Private sector bank or financial Institution.
- o Use Buy-Back Feature; organize Exchange Melas, where people can exchange their petrol bikes for the electrical ones.
- Installation of charging station in strategic locations across the city.
- $\circ \qquad \mbox{Providing Discounts on Bulk Purchases and providing free pick and drop services.}$

CONCLUSIONS

Electric Bike industry is in nascent stage still in India, with lots of apprehension about its durability and quality being offered. While doing this study it became more and more clear that lack of awareness, regulatory authority, quality issues are some of the biggest challenges in front of the industry. But with ever increasing Petrol prices and high pollution, sooner Electric Bikes are going to put a serious challenge to the Petrol Bikes. At this stage the primary focus of the company shall lie on R&D, improving quality and educating people. So with Government support in the form of developing the necessary infrastructure and subsidy to the end customer, there is possibility of Electric Bike Industry is getting ready for a golden feature.

LIMITATIONS

Some of the limitations of the study may be summarized as follows

- An underlying assumption for entire project is that the details and feedback received from population are true.
- It was difficult to find respondents as they were busy in their schedules and collection of data was very difficult. Therefore study had to be carried out based on availability of respondents.
- Some of the respondents were not ready to fill the questionnaire and some of them not ready to come out openly.
- Also the sample size of 100 may not truly represent whole population.

SCOPE FOR FURTHER RESEARCH

The current study focused only on the perception and the behavioural aspect of the customers towards the electric two wheelers in Bangalore city. The study can be extended throughout the state and further the entire country in order to have clear picture about the market potential for the electric two wheelers in the country. The study can also be done to assess the customers' expectations towards the performance and productivity of electric two wheelers.

REFERENCES

- 1. Ashish Aggarwal, (2014) in Market Analysis of Electrical Toys. Journal Of Engineering & Management Sciences, Volume 4 Issue, Page 27-38.
- 2. Bhupendra Kumar Verma, (2014), a study on electric bikes, Vol-4, Issue-40, (2013), Pages 54-63.
- 3. Deekshu, (2008) in a study on Customer Satisfaction towards electric bikes, The lup journal of marketing, Vol 4,, Page 1-14.
- 4. Dr.D.Sreeramulu, (2009) in a study on Consumer satisfaction in Ebikes, The Business Review Cambridge, Vol- 13, Pages 170-177.
- 5. Kotler philip, "Marketing Management" New Delhi, Prentice hall of India, 2003
- 6. Stanton William J, Etzel Michael J, Walker Bruce J, Fundamentals of Marketing- Mc Graw Hill International Singapore-1998
- 7. Tamilmozhi, (2013), a study on customer satisfaction and perception towards bikes, International journal for management, volume no. 1, issue no. 6, Pages 98-107

WEBSITES

- 8. Basic information of electric bikes, retrieved from http:// www.shodh.net on 21/05/2015.
- 9. Go Green BOV, retrieved from http://www EVfuture.com/forum.html on 22/05/2015.
- 10. Go Green BOV, retrieved from http://www.iaeme.com/ijmhrm.html on 22/05/2015.
- 11. Products and plans, retrieved from https://WWW.GoGreenBOV.com/home on 17/06/2015.

ANNEXURE QUESTIONNAIRE

Dear sir/madam,

We are conducting a survey on "Consumer Perception towards Electric Bikes". We request your free and genuine response to the following questionnaire. Information provided by you will be kept confidential and used for academic purpose only.

			PART A		
Personal Details:			and the second		
Name:					
Gender:					
a. Male	b. Female				
Age Group:					
a. Below 25	b. 25 – 40 c. 40 – 60	0 d. Above 60			
Monthly Income:					
a. Below 10,000	b. 10000-20000	c. 20000-35000	d. Above 35000		
			PART B		
1 Ave					

1. Are you aware of Electric Bikes?

a. Yes b. No

- 2. How did you come to know about Electric Bikes?
- a. News paper/magazine

b. Television

VOLUME NO. 5 (2015), ISSUE NO. 08 (AUGUST)	ISSN 2231
d. Friends	
e. Others (specify)	
3. Which bike are you using presently?	
a. Electric bike	
b. Conventional bike	
4. Which of the following factors encouraged you to buy Electric bikes?	
a. Environment friendly	
b. Less running cost	
c. Safety	
d. No registration	
e. Others (specify)	
5. Did advertisement influence your buying decision?	
a. Strongly agree	
b. Agree	
c. Neutral	
d. Disagree	
e. Strongly disagree	
6. What do you feel about price of the Electric Bikes?	
a. Very high	
b. High	
c. Moderate	
d. Low	
e. Very low	
7. What is your opinion towards mileage of Electric Bikes as compared to conventional bikes?	
a. Very good	
b. Good	
c. Average	
d. Bad	
e. Very bad	
8. What is your opinion towards speed of Electric Bikes as compared to conventional bikes?	
a. Very high	
b. High	
c. Moderate	
d. Low	
e. Very low	
9. Are you convinced about Electric Bike benefits?	
a. Yes b. No	
10. Would you like to suggest electric bike to your friends?	
a. Yes b. No	
11. Is the present promotional activity about Electric bike sufficient enough for you to make the purchasing decision?	
a. Yes b. No	
12. Which of the following factors do you think are responsible for lower market share of Electric Bike as compared to	Conventional bike?
a. Appearance	
b. Speed	
c. Battery life	
d. Uncertainty of electric bike technology	
13. Which of the factors do you think that prevents you from making the decision of purchasing the electric bikes?	
a. Expensive	
b. Unaware	
c. Not convinced	
d. Non availability	
e. Others (specify)	
14. Is after sales service availability affecting your purchasing decision of electric bikes?	
a. Yes b. No	
15. Are you aware of electric bike benefits?	
a. Yes b. No	
16. How did you came to know about this brand–	
a. Through friends	
b. Advertisement	
c. Publicity	
d. Family members	
17. Are you satisfied with its overall performance?	
a. Fully satisfied	
b. Moderate	
c. Average	
d. Less satisfied	
e. Poor	
18. After knowing benefits of electric bike are you willing to purchase it in future?	
a. Yes b. No	
19. If no why	

19. If no why

INTERNATIONAL JOURNAL OF RESEARCH IN COMMERCE, IT & MANAGEMENT 14

A Monthly Double-Blind Peer Reviewed (Refereed/Juried) Open Access International e-Journal - Included in the International Serial Directories
<u>http://ijrcm.org.in/</u>

REQUEST FOR FEEDBACK

Dear Readers

At the very outset, International Journal of Research in Commerce, IT & 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-mailinfoijrcm@gmail.com for further improvements in the interest of research.

If youhave 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

DISCLAIMER

The information and opinions presented in the Journal reflect the views of the authors and not of the Journal or its Editorial Board or the Publishers/Editors. Publication does not constitute endorsement by the journal. Neither the Journal nor its publishers/Editors/Editorial Board nor anyone else involved in creating, producing or delivering the journal or the materials contained therein, assumes any liability or responsibility for the accuracy, completeness, or usefulness of any information provided in the journal, nor shall they be liable for any direct, indirect, incidental, special, consequential or punitive damages arising out of the use of information/material contained in the journal. The journal, neither its publishers/Editors/ Editorial Board, nor any other party involved in the preparation of material contained in the journal represents or warrants that the information contained herein is in every respect accurate or complete, and they are not responsible for any errors or omissions or for the results obtained from the use of such material. Readers are encouraged to confirm the information contained herein with other sources. The responsibility of the contents and the opinions expressed in this journal are exclusively of the author (s) concerned.

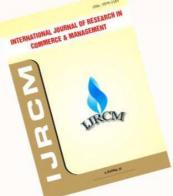
ABOUT THE JOURNAL

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.

Our Other Fournals







INTERNATIONAL JOURNAL OF RESEARCH IN COMMERCE, IT & MANAGEMENT A Monthly Double-Blind Peer Reviewed (Refereed/Juried) Open Access International e-Journal - Included in the International Serial Directories http://ijrcm.org.in/