

INTERNATIONAL JOURNAL OF RESEARCH IN COMPUTER APPLICATION & MANAGEMENT

I
J
R
C
M



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-Gate, India [link of the same is duly available at Inlibnet 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 4700 Cities in 180 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. No.	TITLE & NAME OF THE AUTHOR (S)	Page No.
1.	ASSETS TURNOVER AND PROFITABILITY OF SELECTED INDIAN AUTOMOBILE INDUSTRY <i>DR. N. PASUPATHI</i>	1
2.	WALKTHROUGH ON NEURAL NETWORK AND FUZZY LOGIC FOR CLASSIFICATION OF MEDICAL IMAGE DIAGNOSIS <i>A. SORNA GOWRI & DR. K. RAMAR</i>	4
3.	SERVICE QUALITY, CUSTOMER SATISFACTION AND LOYALTY: A STUDY OF AIRTEL SERVICE PROVIDER <i>DIVYA.L & B. H. SURESH</i>	7
4.	MOBILE BASED DECISION SUPPORTING SYSTEM FOR WEATHER INDEX BASED CROP INSURANCE SCHEME: A CASE STUDY OF KARNATAKA'S MOBILE ONE PROJECT <i>DR. G. KOTRESHWAR & V. GURUSIDDARAJU</i>	10
5.	SCENARIO OF WOMEN ENTREPRENEURSHIP IN KASHMIR <i>FARAH FAYAZ QURAIISHI & DR. MUSHTAQ A DARZI</i>	16
6.	GOVERNMENT POLICY TOWARDS ENTREPRENEURSHIP DEVELOPMENT IN JAMMU AND KASHMIR <i>DR. NIHARIKA MAHARISHI & BILAL AHMAD DAR</i>	21
7.	PERFORMANCE EVALUATION OF VERTICAL CONVEYOR REAPER FOR HARVESTING PADDY CROP <i>Y. M. PATIL, B. ANURAJ & S. R. KAREEKATTI</i>	24
8.	HADOOP MapReduce <i>MANISHA AGARWAL, SOURABH MUKHERJEE & SUSHMA GREWAL</i>	26
9.	MEASURING POST ACQUISITION EFFICIENCY OF CORPORATE M&A IN INDIA (WITH SPECIAL REFERENCE TO TATA STEEL ACQUIRING CORUS) <i>DR. ARUN KUMAR, DR. RANJIT SINGH & DR. SATVINDER KAUR</i>	30
10.	BIT COINS: CEMENTING REGULATORY GAPS IN EMERGING MARKETS <i>DR. LATHA SREERAM & AKSHAY RATHOD</i>	35
11.	A STUDY ON PAYROLL MANAGEMENT: SOUTH CENTRAL RAILWAY <i>G. SRIKRISHNA & G. NANDA KISHOR KUMAR</i>	41
12.	COMPARATIVE FINANCIAL STATEMENT ANALYSIS OF DR. REDDY'S LABORATORIES AND CIPLA LTD. <i>S. DHARCHANA & DR. P. KANCHANA DEVI</i>	50
13.	INVESTORS' EDUCATION & AWARENESS - ROLE OF VARIOUS STAKE HOLDERS <i>DR. G. SURENDAR</i>	54
14.	A LINK BETWEEN POS AND HR PRACTICES: A REVIEW OF LITERATURE <i>ROHINI.S.NAIR</i>	57
15.	ROBOTS REPLACING HUMAN IN THE BANKING SECTOR - NEW ERA OF ROBOTS: A SYSTEMATIC STUDY <i>SHAILAJA KONEK</i>	62
16.	PERFORMANCE ASSESSMENT OF MGNREGS: A CASE OF PUTHURANI PANCHAYAT OF SIVAGANGA DISTRICT (TAMIL NADU) <i>M.SATHANAPRIYA & B. SIVAKUMAR</i>	66
17.	WORKERS PARTICIPATION IN MANAGEMENT IN INDIA: AN EVALUATIVE STUDY <i>SIDDANNA APCHAND, MAHESH URUKUNDAPPA & DR. RASHMIRANI AGNIHOTRI H.R</i>	73
18.	THE EFFECT OF HEDONIC SHOPPING MOTIVATIONS ON IMPULSE BUYING TENDENCY AND THE MODERATING ROLE OF BUYING POWER <i>SHARIQ ZIA, MUHAMMAD WAQAS, SHAHZAD AHMAD & AMMAR ARSHAD</i>	76
19.	A CRITICAL ANALYSIS OF COMMERCIAL BANKS PERFORMANCE IN GHANA <i>ALHASSAN BUNYAMINU & FUSEINI MAHAMA</i>	81
20.	A FINANCIAL PERFORMANCE EVALUATION OF CEMENT INDUSTRIES IN INDIA <i>SOMESHWAR PRIYA D.</i>	91
	REQUEST FOR FEEDBACK & DISCLAIMER	94

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

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

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

EDITORIAL ADVISORY BOARD

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, Chhatrapati 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

Dean (Academics), Rajasthan Institute of Engineering & Technology, Jaipur

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. SHIVAKUMAR DEENE

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

DR. BHAVET

Faculty, Shree Ram Institute of Engineering & Technology, Urjani

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.

ASHISH CHOPRA

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

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**

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; 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; 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 **M.S. Word format** after preparing the same as per our **GUIDELINES FOR SUBMISSION**; at our email address i.e. infoijrcm@gmail.com or online by clicking the link **online submission** as given on our website ([FOR ONLINE SUBMISSION, CLICK HERE](#)).

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 :

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 :

NOTES:

- a) The whole manuscript has to be in **ONE MS WORD FILE** only, which will start from the covering letter, inside the manuscript. **pdf. version 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 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 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 **BRITISH ENGLISH** prepared on a standard A4 size **PORTRAIT SETTING PAPER**. **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:**INTRODUCTION****REVIEW 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.**

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>

PERFORMANCE EVALUATION OF VERTICAL CONVEYOR REAPER FOR HARVESTING PADDY CROP**Y. M. PATIL****ASSOCIATE PROFESSOR****UNIVERSITY OF AGRICULTURAL SCIENCE****YATTINA GUDDA CAMPUS****DHARWAD****B. ANURAJ****ASSOCIATE PROFESSOR****UNIVERSITY OF AGRICULTURAL SCIENCE****YATTINA GUDDA CAMPUS****DHARWAD****S. R. KAREEKATTI****ASST. PROFESSOR****UNIVERSITY OF AGRICULTURAL SCIENCE****YATTINA GUDDA CAMPUS****DHARWAD****ABSTRACT**

The study was conducted to reduce the cost of cultivation in paddy through mechanizing harvesting operation at Agricultural Research Station Mundagod and also at farmers' field. The vertical conveyor power reaper (KAMCO Model KR 120) was used for harvesting paddy crop. The overall performance of the vertical conveyor reaper was quite satisfactory. The average actual field capacity of power reaper was 0.27 ha/hr with the average field efficiency of 69% at an average of 3.3 kmph and the fuel consumption was 5.7 lit/ha. The cost of cultivation of paddy could be reduced by reducing 10 man days per hectare through mechanized harvesting. The overall cost of harvesting was found to be reduced in case of mechanized harvesting by self propelled vertical conveyor reaper. Hence, the mechanical harvesting would be economical compared to the traditional methods.

KEYWORDS

mechanised harvesting, field capacity, field efficiency.

INTRODUCTION

Rice is one of the most important crop and staple food of million of people. The total area under rice during kharif season in India was 37.48 million hectares with the productivity of 88.02 million tonnes in 2014 (Anonymous 2015). The production of rice has increased as a result of improved methods of farming, but the harvesting techniques employed are still primitive. Harvesting is the first and major post-harvest operation. Harvesting operation has to be done at particular period when the crop is matured and the time required for harvesting is very less. But these two conditions cannot be fulfilled due to the shortage of manpower at the time of harvesting, which leads to delay in harvesting and field grain losses and also higher wages during peak harvesting period and leads to extra cost in total cost of cultivation. Nadeem (1983) reported that depending upon the crop yield 120-250 man-hr is required for cutting, bundling and on-field stacking of one hectare of paddy field by traditional sickle, also huge amount of grain loss is reported for the lack of mechanized harvesting. Mechanized harvesting is an alternative solution to tackle this problem and also results in lesser cost of operation, when the farmers harvest the crop by using combines, farmers are losing valuable animal feed material. Reapers on the other hand are the alternative harvesting equipment, provided straw is considered as economic by-product for animal feed or industrial applications (Gyanendra singh 2002). Keeping the above facts in view, a study was conducted to evaluate the performance of vertical conveyor reaper for harvesting paddy crop to reduce the cost of harvesting of paddy through farm mechanization.

MATERIAL AND METHODS

The field trials were conducted at Agricultural Research Station, Mundagod in Uttara Kannada district, Karnataka state during *rabi* season 2014-15 to study the economic feasibility of self propelled vertical conveyor reaper for harvesting paddy. The field demonstration were also conducted in farmers' field to study the performance at field level. A commercial self propelled vertical conveyor reaper was procured and the detailed technical specifications are given in Table 1. The reaper has adjustable cutting height of 10-30 cm from ground level. The crop was left aside after cutting at the right side of the machine. Speed of operation, width of cutting, total time required to cover the area and fuel consumption were recorded using the above observation the following parameters were studied to study the performance of the self propelled vertical conveyor reaper.

1. Theoretical field capacity was calculated based on the speed of operation and width of the cutting of the machine.
2. Actual field capacity was calculated based on area covered and actual time taken for covering the area including the time lost in the turning.
3. The field efficiency was obtained by dividing actual field capacity by the theoretical field capacity.
4. Labour saving by using the machine compared to manual harvesting was also studied.

RESULT AND DISCUSSION

Paddy crop was harvested using self propelled vertical conveyor power reaper. Based on the field demonstrations conducted during *rabi* 2014, it was observed that the actual width of cutting by reaper was 1.20 m, and the average actual field capacity of the self propelled vertical conveyor reaper was 0.27 ha/hr with field efficiency of 69 % at an average operating speed of 3.3 km/hr. It took 3.62 hour to harvest 1 hectare area and the average fuel consumption was 5.7 lit/ha (Table 2). The working of self propelled vertical conveyor reaper was found to be satisfactory.

The labour requirement in mechanical harvesting was found to be 9 man day per hectare for manual collection and bundling of harvested crop as compared to 19 man day of labour per hectare in manual harvesting, connecting and bundling of the crop. Thus, it saved 10 man days of labour per hectare similar results reported by Manjunath *et al.*, (2009).

From the above evaluation, it can be concluded that the vertical conveyor power reaper could be used successfully with labour saving of about 10 man day per hectare and eliminating the drudgery on the part of the labour. The area of 2.16 ha can be harvested per day if the field capacity is kept at 0.27ha/hr. The number of hectare of usage per year taking in to consideration of two harvesting season in a year and 30 days of harvesting period per season and 8 working hours per

day, the maximum area on which the self propelled vertical conveyor reaper can be operated in year is 129.6 ha, considering the actual field capacity as 0.27 ha/hr. Thus, mechanization in paddy harvesting is feasible solution for reducing the cost of harvesting of paddy crop without any yield reduction.

TABLE 1: SPECIFICATION OF SELF PROPELLED VERTICAL CONVEYOR REAPER

SI No	Parameters	Specifications
1	Manufacture	Kerala Agro Machinery Corporation Ltd. (A Govt. of Kerala undertaking), Athani-683 585 Dist. Ernakulam.
2	Model	KR-120
3	Dimensions, L x W x H, cm	239 x 147 x 90
4	Weight, Kg	116
5	Power unit	3.5 HP single cylinder 4 stroke, air cooled petrol start, kerosene run engine
6	Working capacity, ha/h	0.25 to 0.30
7	Crop release	Right side of the machine (viewed from rear)
8	Travel speed, km/h	
	Forward	3.5
	Backward	3.0
9	Applicability	Dry and wet land
10	Cutting device	Reciprocating knife bar
11	Cutting height, cm	10-30 cm from ground level (adjustable)
12	Cutting width, cm	120

TABLE 2: PERFORMANCE OF REAPER IN DRILL SOWN PADDY

SI No	Parameters	Kharif 2014	Kharif 2014	Kharif 2014	Kharif 2014	Average
1	Date of harvest	13-11-14	15-11-14	2-12-14	7-12-14	
2	Total area(ha)	3.61(131.67x27 4.32mts)	2.00 (145 x 138 mts)	0.28 (75.4x37.4 mts)	0.61(38x41mt s)	
3	Speed of operation (Km/hr)	3.2	3.3	3.3	3.4	3.3
4	Width of operation (m)	1.2	1.2	1.2	1.2	1.2
5	Theoretical field capacity(ha/hr)	0.38	0.40	0.40	0.41	0.39
6	Actual field capacity(ha/hr)	0.25	0.27	0.29	0.30	0.27
7	Field efficiency(%)	66	68	73	74	69
8	Time taken to cover 1 ha area (hr)	4.0	3.7	3.45	3.33	3.62
9	Fuel consumption (lit/ha)	6.0	5.8	5.5	5.5	5.7
10	Manual Labour required to cut the crop per ha	17	17	19	20	18.25
11	Variety	Jaya	Jaya	Abhilash	Abhilash	

CONCLUSION

The overall performance of the vertical conveyor reaper was quite satisfactory. The average actual field capacity of power reaper was 0.27 ha/hr with the average field efficiency of 69% at an average of 3.3 kmph and the fuel consumption was 5.7 lit/ha. The cost of cultivation of paddy could be reduced by reducing 10 man days per hectare through mechanized harvesting. The overall cost of harvesting was found to be reduced in case of mechanized harvesting by self propelled vertical conveyor reaper. Hence, the mechanical harvesting would be economical compared to the traditional methods.

REFERENCES

- Anonymous 2015. Business standard publication.
- Gyanendra SING, 2002 equipment to ensure timeliness, The Hindu Survey of Indian Agriculture, 195-198.
- M.V.Manjunath, B.G.Masthana Reddy, S.D.Shashidhar and Joshi, V.R. 2009. Field performance evaluation of vertical conveyor paddy reaper. Karnataka Journal of Agriculture Science, 22(1):140-142.
- Nadeem Amjad, 1983. Field performance evaluation of rice reaper. In Agricultural mechanization in Asia, Africa and Latin America, 14:35-40.
- R.P.Murumakar, U.R.Dkongarwar, P.A.Borkar, P.S.Psalkar and D.S..Phad, 2014Performance evaluation of self propelled vertical conveyor peaper. International journal of science, Environment and Technology, 3(5):1701-1705.

REQUEST FOR FEEDBACK

Dear Readers

At the very outset, International Journal of Research in Computer Application & 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-mail infoijrcm@gmail.com 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

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 co-operation of like-minded scholars, we shall be able to serve the society with our humble efforts.

Our Other Journals

