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**“REVIEW OF PUBLISHED AND UNPUBLISHED WORK
ON SUGAR INDUSTRY IN INDIA, DURING
THE PERIOD OF 2001 TO 2014”.**



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ABSTRACT

Agro industries have been given high priority in India due to their significant potential for contributing to rural development. The emphasis on village based agro industries was initiated by Mahatma Gandhi in the 1920's as a part of India's independence movement. However, even today the development of agro industries is a central part of the national development strategy due to their significant role in bringing value addition to agriculture's output, increasing rural



income and employment and alleviating poverty in the countryside. Sugar industry, one of the chief agro-based industries in India has been instrumental in resource mobilization, employment creation, profits generation and creating collective infrastructure in rural portion of India. Many researchers have worked on the various aspects of sugar industry, such as the development, problems of the industry and its prospects. Similarly, Government strategy and provincial planning for sugar industry area, labour situation of the industry, impact of the industry on the lives of farmers and agriculture, the importance of sugar co-operatives in the rural economy and such other aspects of the industry also have been probed into. Present paper is a brief analysis of various published and unpublished work done on the background of sugar industry in India.

KEYWORDS :*Agro-based Industry, Co-operative sector, Industrial aspects.*

INTRODUCTION :

The establishment of a sugar industry improved the potential of ornamental the joint benefits arising out of the sugar production. It can be said that these benefits percolate to the level of the member farmers of the sugar industry. This proved to be a boon to the farmers now can be sure that they will get a fair return on their produce owing to the co-operative and private industry establishment. With the growth of the cooperative sector a connection between the farmers and industry has been established on large range. So these sugar industries have more and direct contact on the rural economic system than the private sugar factories so many scholars was connected to study of sugar industries and all related aspects of these industries during last fifteen years. This paper

is the analysis of work done during the last fifteen years related to sugar industry.

OBJECTIVE:

The main objective of the paper is to brief analysis of published and unpublished work to relate the sugar industries in India during last fifteen years.

ANALYSIS:

Inamdar, P. P. (2001). 1 He introduced the ‘Economics of Scale in Co-operative Sugar Industry in Maharashtra.’ It is undertaken with specific objectives, to estimate cost, returns and net returns from sugar manufacture in different sized co-operative sugar factories, to determine relative economic efficiency of different sized sugar factories, to analyze the model of utilization of production capacity in relation to production and supply of sugar of sugarcane to different sized sugar factories with regard to utilization of by products and to indicate measures to improve economic efficiency of co-operative sugar factories to derive the profit of economies of scale.

Pagar, S. K. (2003). 2 worked on ‘Socio-Economic Effects of a Co-operative Sugar Factory: A Case Study of Vasant Dada Patil Sahakari Sakhar Karkhana Ltd, Vithewadi, Nashik,’ He described the origin and development of VDPSSK, Vithewadi, and impact of these sugar factory on cultivation and its related other actions. And also explain the relation effect of sugar factory, the transformation of agriculture, industry, trade and commerce, infrastructure development, life of sugarcane producer.

Wadiker, Jyoti. & Das, Mamta. (2004). 3 published a report on ‘Sakhar Shala-An Education Programme for Children of Migrant Laborers in Sugar Factories’ in this study she described in detail of the background of migration of labour, its life and impact on child education. She also comments on the Sakhar Shala its Model, activities, operational structure of Sakhar Shala and a SWOT analysis of all these programs with case studies.

Arzjani, Zahra. (2006). 4 in his work ‘Role of Sugar Factory in the Transformation of the Rural Economy – A Comparative Study of Sugar Factories in Khuzestan and Maharashtra,’ he explains the comparative part of Malegaon Sugar Factory and Ahwaz sugar factory of Iran, both industrial development and socio economic development of surrounding area of industry.

Misal, S. M. (2007). 5 he worked on ‘Organization & Management Performance of Co-operative Sugar Factories With Particular Reference to Pune District,’ hence an effort is made to study & determine the organization and management performance of co-operative sugar factories and tried to give some suggestion for improvement in their performance. He focused on the policies and programmes for progress of sugar industry& found out the mechanical efficiency of sugar cooperative in Pune district.

Deshmukh, M. M. (2009). 6 he worked on ‘Performance Appraisal of Sugar Industries – A Case Study of Co-operative Sugar Factories in Ahmednagar District,’ he attempted to cover different aspects of the sugar industry in his study. He has studied five sugar factories in the district. He confronted himself to deal with the main reasons which led to performance of sugar industries in rural area towards less efficiency.

Ravi, D. (2009). 7 He describe the ‘Prospects of Renewable Energy Source in India, With Special Reference to Co-generation in Sugar Factories,’ In this study the author describes the relationship between five sugar industries, of which two are from Maharashtra and three from Tamilnadu state. He studied the performance of co-generation unit, economic projection, and comparison with MSEB, capacity, operation and collective accountability of sugar industry.

Satheeskumar, L. (2009). 8 He worked on the ‘A Study of Human Resource Management

Practices in Private Sugar Mills in Tamilnadu,’ in this study he workout some diverse aspects which are related to sugar industry employees. He selected some private sugar factories from Tamilnadu to examine the different proportions of HRM practices in the particular private sugar factory. He created a model for HRM practices in private sugar mills & suggested suitable actions to enhance the HR progress in Private sugar factory.

Kumbhar, R. D. (2009). 9 examines ‘A Study of Present Status, Problem and Prospects of Computerization in Selected Co-operative Sugar Factories in Western Maharashtra,’ in his study he identified the need of computerization, its impact on the work in sugar factory. He also defines the problems of computerization and their causes with comparative analysis of computerization with performance, troubles and prediction and also suggests the Enterprise Resource Planning Modules for co-operative sugar factories in Kolhapur district. In his conclusion he has probed in the position and problems of computerization in eighteen selected sugar industries.

Dayama, Sarika. B. (2010).10 she worked on the ‘A Comparative Study of Co-operative and Private Sugar Factories With Special Reference to Manjara Farmer Co-operative Sugar Industry Limited and Natural Sugar and Allied Industries Limited,’ In her study she explains the position of co-operative sugar industry and private sugar industry in Maharashtra, evaluation of both sugar industries, find out the problems of co-operative and private sugar industry and give to suggestion for the development of both sugar industries.

Kadam, P. P. (2010). 11 has analysis the co-operative movement of economic reforms in the district. ‘Role of Co-operative Movement in Sustaining Rural Economy in the Context of Economic Reforms: A Case Study of Ahmednagar District.’ He evaluated the relative effectiveness of co-operative movement in generating and sustaining the employment, educational, finance opportunities, impact on changing socio-economic status in Ahmednagar district. And also evaluate the relative significance of co-operative institution in transforming and maintain the life indicator of rural civilization in the study area.

Ingale, B. D. (2011). 12 explains in his paper of “Sugar Industry in Maharashtra: An Overview”, the status of sugar industry in Maharashtra, the contribution and role of the sugar industry in economic development of the state and also magnitude of production and growth of Maharashtra sugar industry. He also discuss on the some problems related sugar industry.

Kumbhar, R. D. (2011). 13 worked on “ERP System for Effective Management of Co-operative Sugar Industries – A Case Study of Sahyadri SSK Ltd. Shiravade Karad (M.S.)” He studied the fostering growth of ERP System and its successful implementation in sugar industry created an earnest and immense need in the mind of researchers to conduct an experimental and comprehensive study in the field of ERP implementation in co-operative sugar industries. He also workout about enhance brand image of Sahyadri SSK Ltd.

Kendre, Balaji. (2011).14 presented a paper on ‘Socio – Economic Background and Seasonal Migration of Sugarcane Harvesting Workers,’ that aims at investigating the traditionally backward communities such as Scheduled Caste, Nomadic and De notified Tribes and other Backward classes in unorganized division like sugarcane harvesting field, particularly in Kolhapur district.

Barakade, A. J., Kadam, A. S., Sule, B. M. (2011).15 published a paper on ‘Pattern of Sugarcane Concentration in Satara District of Maharashtra,’ This study was undertaken with the growth of area of sugarcane cultivation and Tahsil wise sugarcane concentration on the basis of Bhatia’s method. They also describe the history of 10 sugar industries in the Satara district.

Shinde, U. R., & Herekar, P.M. (2011). 16 in their research paper studied, The Assessment of Operational Efficiency Made by Using Seven Key Parameters of the Sugar Industry. These parameters

are Cane crushing, Sugar production, Gross season taken, Recovery, Capacity utilization, Reduced Mill Extraction and Cane price paid to the farmers. The study reveals the operational efficiency of private management is on the higher side in respect of sugar production and etc. And they have evaluated the experiment of leasing out CSF, comparison between operational efficiency of co-operative and private management period.

Herekar, P.M., & Shinde, Udaykumar. R. (2011). 17 published a paper entitle ‘Challenges Before Sugar Co-operative in Maharashtra,’ In this work they define the general problems faced by the sugar cooperatives in Maharashtra. Such as Corruption, Lack of Professional Management, Short Margin, Price Crash, Natural Vagaries and Infamous Sugar Cycle, Need of Modernization, High interest burden, Shortage of Sugarcane, threat of Privatization, Unsound Export Policy, Sluggish Pace of De-controlling, Levy System, etc. and give some remedies on these sugar co-operatives challenges.

Jugale, V. B. (2012).18 published a paper with, The Study of Migrant Workers of Sugar Industry, in this paper he studied the estimate migrant sugarcane harvest workers and bullock cart workers in Sangli and Kolhapur district during the October to April 2010-11. He also studied the wage rates of migrant worker, changing industrial relations of the migrant workers. In his conclusion he says that the major cause of migration is local economic distress and drought condition during the season.

Todkari, G. U. (2012). 19 worked on ‘Role of Co-operative Sugar Factories in Rural Development: A Case Study of Damaji Sugar Factory, Mangalwedha,’ in this paper Author says that the Mangalwedha is located in drought prone area but Bhima river flows in these region. The catchment of Bhima Rivers is favorable for sugar cultivation. Remaining drought area is large than irrigation area, drought area sugar factory become key factor of development and employment in study area.

Nikam, B.T., Dr. Phule, B.R., & Barkhade, A. J. (2012).20 work on ‘A Geographical Study of Sugarcane Cultivation in Solapur District of Maharashtra,’ In this study, they analyzed the growth of area under sugarcane cultivation and growth of sugar production in Solapur district. And wind up with the area of sugarcane cultivation increasingly vary rapidly in the solapur district and decrease in the shortage of water, scarcity of monsoon, supporting of price, high cost of cultivation.

Pisal, D. T., & AjayKumar. (2012). 21 studied the, Co-operative Responsibility Related to Six Sugar Industry in Pune District of Maharashtra. In this paper the author discussed the sugar cooperatives in social development context, and evaluates importance of sugar factories in social, economic, and educational upliftment of members and workers of sugar co-operatives, as well as welfare activities performed by selected sugar factories with.

Ray , Sarbapriya. (2012).22 printed a paper on ‘Reviewing Performance of Indian Sugar Industry: Associate in Nursing Economic Analysis,’ tries to live the economic performance of Indian Sugar business in terms of capability utilization measured econometrically at combination level over a amount from 1979 to 2009. and also the best output is outlined because the minimum purpose on the firm’ s short run average total value curve and also the rate of ability operation in just magnitude relation of its actual output to capability output level.

Kadam, S. M. (2012). 23 Study on ‘The Problems of Sugar Co-operatives in Ahmednagar District. ’ the main intension of this paper is to find out the problems which are faced by sugar co-operatives in Ahmednagar district. He acknowledged the remedies on the protection of millions of farmer dependent on the industry.

Rajhans, Snehal. M. (2012).24 presented a paper entitle ‘Impact of Irrigation Scheme on Agricultural Development – A Study of Krishna Sugar Factory Irrigation Scheme Rethare Bk. Satara Dist., Maharashtra.’ In this paper, she worked on the study of role of irrigation scheme in agricultural development at Rethare Bk. in Satara district. These irrigation facilities improved the production of

sugarcane, recovery of sugarcane and also increased the area of cultivation. The Krishna Sugar Factory got the international award for modern technology and production.

Badgujar, Deepak. M. (2012). 25 presented a paper on ‘Impact and Assessment of Sugar Factory Effluent on Soil and Water in Jalna District of Maharashtra,’ He states that the sugarcane production is of vital importance for its products and by-products. Disposal of industrial waste is the major cause of soil pollution. Number of chemical industries, mainly tannery, paper, textile, atomic and electric power plants discharge pollutants. He also studied content of organic and inorganic as well as non biodegradable material touch toxic chemicals affecting the soil parameters and there by the soil fertility.

Noronth, Maritina. R. & Thakor, Dilipsinh. (2012). 26 published a article, To Find the Financial Viability of Sugar Factories Located in South Gujarat in India. It uses ratio analysis and discriminate analysis to give the actual prediction equation to classify new cases. All thirteen sugar factories are studied by author for the measure the viability of the sugar factories in the South Gujarat.

Kute, Vrushali. B. (2012).27 ongoing work is a modest attempt to examine the, Physical and Financial Performance of Co-operative Sugar Factories in Maharashtra. It is important to study the growth of sugar industries and role played in socio economic development of farmers. The study region for this study is cooperative sugar industry in the Beed district of Maharashtra. She examines the management practice of sugar industry, performance, profitability and challenges of sugar industry in Maharashtra and impact of co-operative sugar industry on farmers in study region.

M. Nandhini, et. al. (2012). 28 studied and published a paper to find out the effectiveness of the existing performance appraisal system, and to measure the subjectivity and objectivity which influence the existing performance appraisals system and remove the subjectivity and increase the objectivity. And also know the actual problem of the performance appraisal system to organization to individuals.

Gherade, Poonam. A. (2012). 29 she is working on research in, Labour Satisfaction of Sugar Industry. In this work she is studying the different problems of sugar factory labours, and evaluating financial and non financial facilities provided to the labour, with labour efficiency and the role of management for improving of efficiency of labour for productivity.

Singh, J. Jayraja., & Samuel, John. (2012). 30 published a work to define the, Production Performance of the Tiruttani Co-operative Sugar Mill Ltd, and analyze the economic situation, sales performance of the sugar mill. And also analyze the inventory control procedure adopted by the sugar industry. In the conclusion the industry had achieved tremendous progress after our independence. The Tiruttani co-operative sugar mill is one of the successful mills in Tamil Nadu producing considerable quantity of sugar and helping the local farmers.

Parkhe, Gulabrao. G. (2012). 31 his ongoing research is ‘An Analytical & Geographical Study of Co-operative Sugar Factories & Sugarcane Workers in Maharashtra,’ this study is carried out with the working and functioning of Co-operative sugar factories. It is related with finding the progress and performance, Problems of sugar factories and economic situation of sugarcane producer and sugarcane workers, especially workers in Pune district.

Kharat, Rahul. S. (2013). 32 studied in ‘Social Accounting for Co-operatives: A Case Study of Shri. Someshwar Co-operative Sugar Industries Ltd., Someshwarnagar,’ He has described in this paper, the functioning of Co-operative Sugar industry, role of Co-operative sugar industries in the welfare of Society. And analyze the effects of social activities performed by Co-operative sugar industry, social activity conducted by Someshwar Co-operative Sugar Industry in last five years & effects on the society.

Thorat, P. D., & Dhrne, S. R. (2013).33 published a paper entitle ‘Review of Sugar Industries in Maharashtra,’ in this research the study covers only the sugar industries in Pune district Geographical

area. The information about the research is limited to the period since 2001 to 2010. The research findings main aim is to provide a remedy on social and economical problems about sugar industry, and to scrutinize the development of Pune, Government policy due to sugar industry, benefit of sugar industry to small scale farmers, and also studied the rise and fall in sugarcane prices and sugar production.

Malyadri, G., & B. SudheerKumar. (2013).³⁴ both published a paper entitle ‘A Study of Financial Performance of Sugar Industry,’ this study is an attempt to review progress of sugar industry in India both in financial and micro economic terms, understand its problem and challenges in context of an going liberations process based on sound financial fundamentals. They studied the present situation of the Indian sugar industry, discussing the indicate details of the industry from financial and micro economic profit and also provide the insight in to the financial viability and profitability of Indian sugar industry.

Takale, Dinkar. P. (2013). ³⁵ published a paper on the work of ‘Progress and Problems of Agro-Based Industries in India: A Study of Sugar Industry,’ this work studied the importance of Indian sugar industries in the world scenario, the trends of production, yields and area of sugarcane cultivation in India, and analysis of comparative study of sugarcane, sugar production, productivity and recovery of cane in Maharashtra and Uttar Pradesh during 1950 to 2010.

Nadoni, N. N., & et. al. (2013).³⁶ Published a paper at studying, The Relative Economics of Private and Co-operative Sugar Factories in Belgaum District of Karnataka During 2011-12. This study is completed by 120 framers survey using prepared questionnaire, and use of statistical tools are use for performance of sugar industry. The results revealed that the co-operative sugar industry performed better than private sugar industry based on the overall average of solvency ratios, turnover ratios and economic strength ratios. It was found that the overall average of total cost of sugar processing was higher in private sugar factory as against to co-operative sugar factory.

Nimbargi, S. A. (2014). ³⁷ published a paper on ‘Indirect Employment Created by Sugar Industry: A Case Study of Shri. Siddheshwar Co-operative Sugar Industry, Solapur,’ he has explained in the paper, the indirect employment effects of the industry are extensive because there has been significant increase in the economic activity in the whole region due to establishment of the industry. The sugar industry has generated an indirect employment in two sectors namely the agricultural and tertiary. The tertiary sector mostly includes the business units and other institutions, which is established after the industry.

CONCLUSION:

All above refer scholars have great contribution in the field of social economical structure of society and co-operative sugar industries in India. These scholars are studied various aspects of sugar industry in India. These works is useful to understand the relation between the society and co-operative movement, economical structure, and development of rural India.

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