

Problems and Prospects of Agro-based Industries in Dausa District: A Geographical Analysis

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Abstract:

Rajasthan is the largest state of India. In state 65% of population depends on agriculture and its related activities. Dausa is a one of the 33 districts of Rajasthan. Agriculture and industry are mutually dependent on each other. Development of agriculture, increase agriculture production with rural employment and eradicate hunger problem. Agro based industries are those industries which depends on agriculture products for raw material .it converts agricultural raw production into final consumable goods. The objective of this paper to analyse the problems and prospectus of agro based industries in Dausa district. Study evaluate present scenario of agro based industry in district.Study has found in district various geographical and economic factors affect the development of agro based industry. Finally, study find out various problems of agro based industry in Dausa district and give a valuable suggestion.

Key words: agriculture, agricultural products, agro based industry, economic geography

Introduction:

Agriculture and industry are immanent parts of country development. Without developing these sectors, no country can attain growth. As these sectors have a mutual relationship with development. Agriculture is the backbone of the industrial sector which support the industrial sector providing raw material as input, industrial output is also used to expand agriculture activities.

The region's socio-economic development depends upon the income of the people and country economic development depends on development of industries. Industries help to rapid economic growth, employment, foreign exchange, agriculture development narrowing down the economic disparity between rural and urban areas.

Agro based industry is a multibillion dollar industry, it has enormous potential for value addition in agriculture products, generating jobs both on agriculture and industry sector & raising the region's standard of living

through income diversification. Also create gainful employment for both skilled and unskilled labour in rural and urban areas. It uses huge numbers of manpower and varieties of resources are abundant.

Agro based industry means any activity involved in cultivation, under controlled conditions of agriculture and horticulture crops, including floriculture and cultivation of vegetables and post- harvest operation on all fruits and vegetables. These industries converts the raw material of agriculture into finished goods to meet the needs of consumable products. This accelerates the growth and development of an economy, thus reducing poverty and unemployment. Agro based industry are easy to build and generate adequate income for the rural population and for their investment. These industries facilitate effective and efficient use of agriculture resources. A part from this, this also facilitates and industrial culture in rural areas. Those industries

obtain raw material from agriculture called agro based industry. These industries have played a vital role in Indian economy because these have 46% share in all industry and it provides if 50% share of overall employment.

Purpose of this study:

The main purpose of this study are as follows:

1. To analyse the scenario of agro based industry in Dausa district.
2. To identify the geographical factors for the development of agro based industry in Dausa district.
3. To identify the problems of development of agro based industries.
4. To give some suggestions for the development of agro based industries.

Review of literature:

Kaur and Dhama (2013) conducted a study on export performance of agro base industries in Punjab: A special reference to rice industry. The main objective of this study is to analyse what is the export performance of rice industry in Punjab state during 1996- 97 to 2009-10. Result of this study showed that export performance of rice has been impressive in terms of compound growth rate of rice exports.

Paramasivan and pasupathi (2016) revealed a study on performance of agro based industry in India. This study explained production growth rate and export value of agro based manufacturing industries. This study concluded that by establishment of agro based industries, impact of income level of rural population was significant.

Csrietal (2020) discussed a study on history of agro based industries. Study explain many aspects of a agro based industry about India.

Kumari Sunita (2020) elaborated problems and prospects of agro -based industries in Saran district: A geographical analysis. It was found various geographical and economical factors that influenced to the development of agro based industry in Saran district. The main objective of this paper was to find out various problems of agro

based industry in district and give a valuable suggestion.

Research methodology:

Agro based industry namely food processing, textile, horticulture, animal husbandry, wood based industries have been included in this study. This study is based on secondary data. The required secondary data are collected from district MSME reports, research paper, Rajasthan agriculture contingency plan for district Dausa etc.

Significance of the study:

Behind the reason of this study to understand the relation of geographical condition and agro- based industry. These industry generate employment and income which reduces unemployment and poverty which leads to growth and development. These motivate to rural people for establishment of industries. This study helps to decision making of an industrialist. These industries reduce inequality of income.

Study area:

Dausa district is one of the thirty-three districts of Rajasthan. It is a part of Jaipur division. The city of Dausa is situated in the North eastern region of Rajasthan, a region widely known as dundhar. Dausa city is also known as dev-nagri. District has five blocks which are lalsot, mahua,bandikui,sikrai. Dausa district is located in 25°•33 to 27°•33 latitude and 76°•50 to 76°•90 longitude. The geographical area of district is 3404.67 square metre.

Concept of agro based industry:

Agro based industry is broad concept. It includes all manufacturing & processing activity and services which dependent on agriculture protection .agro based industry gives inputs to agriculture.

The National council of applied economic research (1965)defined, "the agro based industries use agricultural raw materials for their industrial needs including seeds, fertilizer ,implements, plant protective chemicals etc . including not only items, but also repair and servicing of farm implements and machinery".

UNIDO (United Nations industrial development organization) defined, "agro industry as those industries which use raw materials from agriculture as main material from which manufactured goods are produced on a commercial scale".

According to R. P. Kachru (2010), agro based industry convert agriculture raw material into final products and increase the value added.

According to the International Standard Industrial Classification (ISIC) agro based industry consists of:

1. Food and beverage industry
2. Tobacco products
3. Paper and wood products
4. Textiles, footwear and apparel industry
5. Leather products and
6. Rubber products

A general definition of agro based industry indicates the agro based industry is a part of manufacture which converts to agriculture raw material into final goods by processing method. They convert forestry, fisheries, fruits and vegetable product also. These industry direct and indirect dependent on agriculture. Those industry support agriculture like that pump set, fertilizer, pesticides includes in agro based industry.

Agro based industries in Dausa district:

Rajasthan is India's largest state by area (342,239 square) kilometers and 10.4% of India's total area. Rajasthan, with its diverse agro-climatic conditions is richly endowed in the cultivation of variety of crops. Rajasthan is the largest producer of spices oil seeds, pulses. Agriculture and allied activities make up for 24% of the states GDP with 62% of total working population of the state dependent on this for livelihood. Together Rajasthan has good scope for agro based industry. Agro based industries are include industries related to textile, sugar, paper, leather, edible oil, dairy and forest based industry. These industries use agricultural products as their raw materials. In Rajasthan about 10,000 units are operational in the micro and small scale sector. Agro based industry provide employment of both farmers and farm

labours as well as small and medium sized business. In business state have a share of about 40% of total agro based industry in India. It contributes 39% of the value of goods and services and employs 24% of the total work force. Agriculture and it's related activities is the main occupation of working population in Dausa. Total working force in district is 5.44 lacs. The Principal crop of the district in Kharif is Bajra and Rabi is wheat. Other major crops are maize, cotton, barley etc. In district Major pulses are chana, toor, moong and moth. Oil seed production capacity of the district per hectare are 2.25 MT. Rape seed & mustard, taramira, linseed, groundnut and sesame are major oil seeds produce in district. Due to production of major oil seeds, District has good scope for edible oil industry.

Dausa, bapi, jeerota, lalsot, mahwa, mandawar, kolana (bandikui), garh, sikrai these are major industrial area in district. Total number of small scale and MSME unit in district are 3507.

Finally district has good opportunities for the development of agro based livestock based and demand based industries.

Agriculture and animal husbandry sectors play a salient part role in district economy for developing the rural economy. These sector are interdependent on one another. Animal husbandry is the backbone of rural area for agriculture labours in district. A wide variety of livestock is available herein 2013 total livestock population was 10,50,958. It has the largest livestock of cattle, cows, goats, buffaloes, sheep. Animal and poultry based industries use animal products as its raw material. Example of such industry can be dairy, meeti, leather industry etc. Leather base industries are located in district bhandarej, bishanpura, aluda, Lawan, Gurlia. The district is well connected with cooperative societies of Jaipur zila dugadh utpadak Sangh and other milk production centres. Due to large livestock, animal husbandry and dairy industry could also be establish in rural and semi urban area of the district. The District therefore, has a good potential for dairy and

animal husbandry industry. A part from agriculture and animal husbandry, horticulture activity has a very good potential for development. The horticulture crops suitable for district are guavas, citrus lime, mango, berry, papaya etc.

In district textile based industry is the largest industry. These are total number of 367(2010-11). It includes cotton garments, woolen garments, Darry, knitting, and carpet. These industries are located in Lawan, baniyana, aluda, dausa, thumri, Vishnupura, sikrai, Lalsot, bandikui, baswa, and mahua.

In district food processing industry is the second largest agro based industry. These are 183 in total number. It includes bakery, oil Mills, dal mill, pickles, jam and tomato paste, patashamishri and murabba industry.

Forest based industries obtain its raw material from forest and its various products. It includes wooden furniture, wooden toys and blocks, moonj ban, cotton ropes, honey, herbs. Forests cover 22.47% of total geographical area of the district.

Geographical factors for the development of agro based industries in Dausa district:

Agro based industries mainly depends on agricultural products as raw materials. Raw material is the backbone for the establishment of agro based industry. High growth rate of agriculture production effects multiply growth in industrial production. High growth rate of industrial production help to develop a region. Some factors are responsible for development of agro based industries in Dausa district are as follows:

1. Average rainfall: in the state average rainfall is 748 mm' which is enough for crop of mustard. Thus district is a good location for mustard oil industry.
2. Availability of land: land is a basic input for establish a industry. The prominent stands of the district are availability of land in industrial areas at cheaper rates.
3. Availability of labour: human resources are the backbone for the industrial development. Total population of district are 16.34 lacs, in which work force is

5.44lacs. District has adequate supply of cheap and skilled labour, thus district has good opportunity for it workforce by establishment of agro based industries.

4. Livestock: district are risky rainfed area. Risky rainfed agriculture is the main reason of growth in livestock. Due to large livestock, milk and mutton are abundant in quantity. Large amount of milk production, leads to the development various dairy industries and facilities production of ghee, khoya and various other milk products.
5. Infrastructure: infrastructure facilities like power, communication, transport health, banking, education etc play a vital role in the promotion and development of industries in a district .such facilities available in Dausa district. Agro food parks developed by RIICO in Alwar district, which has nearby Dausa, its provide infrastructure facility for agro based industries.
6. Availability of water: banganga and morale are flowing of the district. Rivers water level depends on monsoon. Main sources of water supply in district are Wells and tube Wells. Due to wells and tubewells industrialist can choice individually place of establish a industry.
7. Large consumer market: district has proximity to large consumer market. The district is well connected to the nation capital Delhi, nearby state capital of Jaipur and Agra. Which provide a large share of consumer market. Market for industrial production is easily available.
8. Transportation: transport is an important component for collecting raw material and easy market access for large consumer market. District is well connected with rail and road networks. Total road length is 350 4.37 kms. India's biggest infrastructure transformation project Delhi Mumbai industrial corridor DMIC, passes through the district of Dausa. Road and railway connectivity makes district excellent location for setting up many industries. Due to proper connectivity, industries are

market oriented and not depend on the resource available in the surrounding area. It makes to good situation for industrialist to established industry on personal choice and facilities. They can develop demand based and footloose industries anywhere in district.

9. Forest: the forests cover an area of 123019 hectare, which is 22.47% of total geographical area of the district. Lalsot, bandikui, dausa are the major forest area of district. Babool, kumta, dhok, khejadi are major trees which provide raw material for wooden based and furniture industry.

Problems of agro based industries:

1. Problem of water and power: water and power have been the major constraints in industrial development of Dausa district.
2. Guidance and training for modern and sophisticated agro industries are not available.
3. Dependence of these industries on weather condition. Dearth of monsoon main affect the raw material supply. Raw material is only available for a short period and the cost is quite high compared to the quality.
4. Lack of demand for processed packed food products as they are considered luxury items.
5. Agro based industries situated in the sectors that are not organized and have low level of science and technology, with almost no standardization and grading.
6. Good quality of fruits and vegetables are not available for processing.
7. Products quality in low in compare to multinational products.
8. There is a lack of basic infrastructure, information, modern technology, good management and capital.
9. High taxation rates and too many regulations affect the growth.

Conclusion and suggestion:

Agro based industry has a very important role in perspective of overall development in state and district. Development of agro based industry increases agriculture production and also reduce unemployment

and hunger problem. Dausa district is known as agriculture based district. In district agro based industry includes food and beverage, tobacco, furniture, textile, leather dairy, edible oil, bakery, and cattle feed. The geographical factors like rainfall, human resources, raw material, forest, livestock, connectivity of market these factors play a vital role to establishment of agro based industry in district Dausa.

For development of agro based industries following suggestion should be include by policy makers:

1. Agro based industry plays an important role in the industrialization process of the developing country to increase industries growth in district would be worth to explore the land use pattern ,irrigation facilities, crops, livestock, dairy and cattle development .which will be provide a base for development of agro based industries.
2. To increase the industrial development in district, it is necessary to remove the constraints of water and power by augmenting the water supply through irrigation project and by commissioning grid substations.
3. Development of some more industrial areas in new location.
4. Setting up of few large and medium scale industries material to set up the district which provide the industrial climate and would also help in the development of MSME units.
5. The new institutional framework must enable a large number of small farmers to participate in and benefit from agro processing. This emphasizes the need to develop a cooperative network with a view to harmonize the interest of the producers, processors and consumers and to avoiding excessive depends on private corporation and multinationals.
6. To cater the export demand more advanced management and marketing method should be introduced.
7. Tax rebate and medical facilities also provided to in new industrialists.

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