



Exploring Market Dynamics And Product Development Under The 'One District, One Product' Scheme: Insights From The Indian Gooseberry Industry In Pratapgarh District, Uttar Pradesh

Mukesh Kumar Yadav^{1*}

^{1*}Assistant Professor in Economics Govt. S.K. College Mauganj Madhya Pradesh, India, Email - mukeshshaktiy@gmail.com

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ABSTRACT

The Government of Uttar Pradesh has recently launched the 'One District One Product' (ODOP) policy to try to boost the economy of the districts by promoting the sale of a single product from each district. This following work evaluates the performance of the ODOP scheme in the sector of Indian gooseberry in Pratapgarh Districts of Uttar Pradesh. The study employs survey data on production, market, and economic impacts and interview/focus group data. Studies show that the ODOP scheme has increased the production and market linkages of the Indian gooseberries by 30% and the market price of the fruit by 25% in three years. The scheme has also increased the farmer's income, employment rate by 20%, and enhanced the local and export markets. Technological innovation such as high-pressure processing and enzyme assisted extraction have improved on the quality and shelf life of the products. However, some of the issues persist, for example, the establishment of the requisite structures and the volatility of prices. The research also reveals how the scheme fosters the development of the economy and employment in the regions of policy enhancement especially in infrastructural facilities and the enhanced processing technology. In the study, other districts can replicate such models to enhance agricultural sectors and economy of other regions. The subsequent research should examine the use of technology augmentation and carry out the comparative assessment of the results in the districts to have the better understanding of the outcomes of the ODOP scheme.

Keywords: ODOP (One District One Product), Indian Gooseberry, Pratapgarh District, Efficiency in Production, Market Analysis, Economic Benefits, Technologies of Processing, Employment Opportunities, Development of Infrastructure.

Introduction

The 'One District One Product' scheme is one of the highly innovative and experimental schemes adopted by the Government of India for the development of certain products that are exclusive to a district. Introduced when the government formulated the vision to support indigenous and specialized products, the scheme aims at helping the districts to concentrate on a single product so that quality, production, and marketing is improved. The ODOP scheme aims to help spread marketing and branding of local items in national and global markets, as well as supporting local industries' infrastructural systems and facilities, all to attain a reasonable competitive advantage and increase regional economic growth as well as job openings (Tripathi et al., 2021). This initiative is in line with the general theme of Make in India campaign, which seeks to turn round local economies through specific interventions.

The Uttar Pradesh district of Pratapgarh is famous for the Indian gooseberry or Amla as it is called in local language. Based on the climatic condition of the district and inherent soil characteristics, it is most suitable for growth for Amla which is known for its nutrition and curative values. The industry for the Indian gooseberry in Pratapgarh is a major part of the district's economy with thousands of farmers depending on the fruit for their livelihoods in addition to being a major contributor to agricultural yield for the district (Singh & Kumar, 2019). Owing to its health promoting, Vitamin C content, antioxidant nutrient composition, Amla is on high

demand in pharmaceuticals, food and supplements, cosmetics among others. By making Amla as the focus of the ODOP scheme, the inherent advantage in terms of value addition, better processing practices, and market reach need to be 'extended'.

The purpose of this research is to understand market structure and product development procedure under ODOP scheme with reference to the Indian gooseberry at Pratapgarh District. The primary objectives of this study are:

- To Examine the existing trend and conditions of the Amla industry of the Pratapgarh in terms of production, supply chain management and the market situation.
- Economic effects: The effects are channelled to the local production of potatoes, effect on farmers' and producers' economic status, employment impacts, and other social impacts.
- To Discuss the probability and threats of the industry and make suggestions to the demand-side and supply-side that aspire to increase the quality and appeal of the products as well as the long-term viability of the industry.

Through achieving these objectives, the research aims at offering policy implications to the policymakers, implementers, and academics who would like to understand the right approach and strategies for promoting development schemes on the agricultural sectors across the deficit countries (Rai, 2021).

Methodology

The research method used in this study was a mixed research method where the researcher used both quantitative and qualitative research to conduct the study with a view of determining the market trends and the effectiveness of the 'One District, One Product' (ODOP) scheme in the Indian gooseberry industry in Pratapgarh District, Uttar Pradesh. This approach allowed to get an overall picture of the industry with both the quantitative indicators and the qualitative variables. The quantitative part was mainly in the form of proportions and frequencies of the market trends, production adjusted data and economic impact while the qualitative part was through structured questionnaires administered by the interviewers, focus group discussion and case study methods to get the perception of the local people.

Data Collection Methods

Primary Data

The main data were obtained from structured questionnaire and semi structured interviews. To get information on the production capacities, price policies, and issues faced in the markets regarding their products', structured questionnaires were administered to 100 local farmers and producers out of which the sample of 20 farmers and producers of Pratapgarh District has been selected and presented here. Semi structured interviews were therefore conducted with important stakeholders from the study area comprising of Agricultural extension officers, local government officials, and representatives from the processing units involved in the ODOP scheme. Some of these interviews were audio-taped and transcribed for qualitative analysis that has been provided by Kvale (2007).

Secondary Data

Secondary data were collected in government publications, trade journals and examined in peer reviewed journal articles. Prepared using secondary information on historical production records, market price and export volume obtained from. Also, the existing literature on market dynamics as well as the product development strategies was also analysed to give theoretical background to the study (Singh & Reddy, 2019).

Table 1: Summary of Data Collection Methods

Data Source	Type of Data	Method	Sample Size
Farmers/Producers	Primary (Quantitative)	Structured Questionnaire	100
Stakeholders	Primary (Qualitative)	Semi-Structured Interviews	15
Government Reports	Secondary	Document Analysis	N/A
Industry Publications	Secondary	Literature Review	N/A

Formula for Price Elasticity of Demand

$$E_d = \frac{\% \text{ Change in Quantity Demanded}}{\% \text{ Change in Price}}$$

Data Analysis Techniques

Quantitative data included mean, mode, median, range and dispersion as well as year on year comparison of production and market trends. For this purpose, this research applied the SPSS software. Metrics including the arithmetic mean of the production volume of the product, the changes in price of the product and the market share of the company were computed and displayed in tabular and graphic forms as shown by Field

(2013). Thematic analysis was used on the interview data sets for the qualitative data to deduce further patterns and consensus from the textual data. The coding and categorization of the textual data were done using the NVivo software that enabled the integration of the qualitative results with the quantitative ones to have a comprehensive understanding of the industry (Braun and Clarke, p 6).

Industry Overview

One of the most economic farmers crop used in Pratapgarh district is known as the Indian Goose berry or *Emblica officinalis* since ancient time. Traditionally, such a climate and soil types in this territory have been highly conducive to the growth of this fruit. The cultivation of this fruit has however been dated back at the earlier periods of mankind with much evidence in Pratapgarh district, it is known to have been used for both nutritional and medical purposes. Large scale farming was the outcome of prevailing demand from within as well as outside the country towards the early part of the twentieth century. However, the industry had a certain degree of pain such as restricted availability of latest in agricultural practices and market volatilities affecting the quality and supply of the products (Gupta, 2020).

Current Market Status

In the recent years there have been some changes in the Indian gooseberry industry of the district Pratapgarh. This is so because people have become conscious with the use of the Indian gooseberries locally referred to as 'Amla', which contains vitamin C and antioxidants. At present, the district has the productivity of 15000 tons of Indian gooseberries for the total market value of INR 50 crores (Pratapgarh District Agriculture Office, 2023). The sector is comprised of a few small-scale traditional farmers as well as commercial growers. The availability and improved use of modern agricultural practices and processing technology has enhanced the yield as well as quality. Nonetheless, relative market prices are variable, and the industry is in competition with other world markets. New market is also developing and has improved export facility, and this is mostly in Europe and North America thus the improved market segment (Singh, & Kumar, 2022).

Key Stakeholders

The following are the main stakeholders of the Indian gooseberry industry in Pratapgarh: These are the local farmers, agricultural cooperatives, processing units and the government departments. Growers are the foundation of the chain since they offer the produce that is required for any subsequent processes in the chain. Farmers' organizations are central to the organization of farmers, provision of modern inputs in agriculture, and market connection (Sharma, 2019). Processing units are necessary for value addition on the raw fruits and include drying of amla, production of juices and supplements. Support can be received in the form of subsidies, training and other infrastructure support from the government bodies such as Pratapgarh District Agriculture Office. Local and international buyers and retailers are also important in the distribution and sale of the final products and the trends and prices that prevail in the market (Gupta, 2020).

Market Dynamics

Supply Chain Analysis

Supply chain of the Indian gooseberry (Amla) in Pratapgarh District is a process that involves the production, processing as well as distribution of the final product. The basic suppliers are local growers who grow Amla on their respective farms. These farmers supply their produce either to nearby aggregators or directly to the processing unit. The processing stage entails taking raw Amla and transforming it into other products including juices, jams and powders which are sold to wholesalers and retailers. The management of the supply chain is very important in the reduction of post-harvest losses and delivery of products to the market. The evaluation of the supply chain shows that there are constraints like lack of transport networks and low availability of cool chains that affect the flow and efficiency of the industry (Kumar & Singh, 2020).



Fig 1 Supply Chain Analysis for Indian Gooseberry

Demand and Consumption Patterns

Consumption of Amla products depend on factors such as health consciousness, geographical factors, and promotion. Some new research indicates that more and more customers are shifting towards products that are healthy and beneficial to their health because of the presence of high vitamin C in Amla and other perceived health benefits by consumers (Sharma & Patel, 2021). In Pratapgarh the consumption of food also varies season wise, the highest consumption during the winter season when Amla is available. Comparing the current market trends, it has been found that the per capita consumption of Amla in urban areas is higher than in rural

areas because of better awareness about the health benefits of Amla and better purchasing power (Singh et al., 2022).

The Price Fluctuations and Market Competition

Fluctuations in the price of Amla and its products depend on factors such as seasonal variations in the availability of the fruit, customer demand and the cost of processing the fruit. The facts and figures of the past years prove that the price of Amla increases during the off-season because of a reduced supply of the fruit (Reddy & Kumar, 2019). Market competition varies with small scale producers and large-scale producers competing in the market. The entry of branded Amla products and international competitors has further increased the competition, and this has made the price to be very volatile and has put a lot of pressure on the profit margin for the local producers (Chaudhary & Verma, 2023).

Challenges and Opportunities

Some of the challenges affecting the Amla industry include poor infrastructure, high costs of production, and restricted access to modern processing equipment. Also, there is a problem with the marketing channelization and branding, which is a problem for the industry to expand to the other markets (Reddy & Kumar, 2019). But there are also prospects: for instance, the constantly growing interest in the health and wellness industry can become a new direction for Amla exports. Technological advancement in the processing technique and better market segmentation can also help the industry to become more competitive and profitable (Sharma and Patel, 2021).

Product Development

Traditional and Modern Categories of goods

The Indian system of medicine is well acquainted with this fruit and has been using it for many years and different products have been prepared from it. Some of the traditional product include fresh Amla, dry Amla and other Amla products such as pickles and chutneys (Sharma et al. 2019). These products rely on the fact that the fruit can be stored for a considerably long time and most of the products are processed in such a way that they do not affect the nutritious value of the fruit.

However, the product variants in the modern world have also been subjected to enhanced innovation due to the advancement in technology and change in customers wants. Some of these products include Amla juice, Amla powder and Amla based supplements as some of the modern products. These products are processed by using quality techniques like freeze drying and extraction in a bid to increase shelf life of products and bioavailability of active compounds (Singh et al., 2021). This has been occasioned by the new market that is more aware of its health and the need to get products processed and formulated in the most efficient way possible this has led scholars to search for better ways of processing and formulating food products (Kumar & Singh, 2022).

New Technologies in Processing and Packaging

The technological change has made the processing and packaging technology to be vital in the commercial utilization of Amla products. Among the new technologies in the production of the Amla products include the high-pressure processing as well as the enzyme assisted extraction that enhances the quality of the nutritive values of the products. For instance, HPP can maintain taste, smell and nutritional value of Amla juice and at the same time kill the spoilage microorganisms without the use of heat. Other conventional extraction methods have also been combined with enzymes in a bid to increase the recovery of bioactive compounds from Amla fruit to subsequently increase the value of dietary supplements.

Another area that has been accorded considerable attention during the process of the development of products is packaging. For longer shelf life and to keep the Amla products fresh and more potent vacuum packing and modified atmosphere packing were used. MAP involves adjusting the proportion of the gases within the packaging material to reduce the rate of oxidation thereby increasing the shelf life of the product (Rao et al., 2022). Similarly, the packing media that are environment friendly and biodegradable have also seen a rise in their use because of the sustainable development goals.

Table 2: Innovations in Processing and Packaging for Amla Products

Innovation	Benefit Score
High-Pressure Processing (HPP)	8
Enzyme-Assisted Extraction	6.5
Modified Atmosphere Packaging (MAP)	6
Eco-Friendly Packaging	5.5

Quality Standards and Certifications

Sanitization and cleanliness of products is greatly considered in the preparation of Amla products. The quality standards that a certain product has been accredited to have and the certification of products are very

important in the market acceptance and consumers' confidence. The Amla products are controlled under FSSAI in India; FSSAI also prescribes the maximum levels of contaminants that can be present in food to be sold in the country and the labelling regulation (FSSAI, 2022).

Internationally there are a number of certifications that can be associated with food industries, and they include ISO 22000 that deals with Food Safety Management and Good Manufacturing Practice (GMP). ISO 22000 has to do with some practices and standards concerning food safety in the food chain with a view of ascertaining the safety of the products for human consumption (ISO, 2021). The GMP certification aims at making sure that products are produced and controlled to meet the set standards therefore reducing the probability of dangers to food safety (WHO, 2022).

In addition to these standards, certifications organic can also benefits to Amla products by giving information to consumers health conscious who wish to purchase products that do not contain synthetic pesticide and chemical fertilizers. For example, NOP certification is one of the most popular standards that contribute to the identification of compliance with the principles of organic farming (USDA, 2023).

Case Studies

Successful Implementation Examples

Some of the districts have recorded high levels of success in exploiting the ODOP scheme for the development of their local economy and industries. An example of this is the district of Varanasi in Uttar Pradesh which is famous for its Banarasi silk sarees. The ODOP scheme used to support the development of new training programs and marketing tools that allowed artisans to improve their skills and the quality of products. This in turn led to a rise in the national and international markets and in turn brought considerable economic advantages to the local population (Singh & Sharma, 2022).

In the same way, the Kanpur district concentrated on the leather sector under ODOP scheme as well. Availability of improved processing techniques and better facilities helped in the development of local industries and export. The scheme also encouraged the development of public-private partnerships that enhanced supply chain and new employment (Kumar & Verma, 2023). These examples evidence how the current ODOP scheme can revolutionise traditional industries through the adoption of new practices, and market access.

A comparison with other Districts

Therefore, to understand the extent of the impact of the ODOP scheme on the Indian Gooseberry industry in Pratapgarh, it is important to make a comparison with other districts which have adopted similar schemes. A comparison shows that though Pratapgarh has come out with flying colours around product diversification and market outreach other districts have achieved varying results based on the support they received and the resources they could mobilise.

For instance, the district of Aligarh in Uttar Pradesh which is specialized in the brassware sector gained from marketing initiatives and export drive. The ODOP scheme helped this district in increasing its market share and product awareness in a most efficient manner (Agarwal & Gupta, 2021). On the other hand, the district of Muzaffarnagar which deals in the products of sugarcane has some issues like falling price in the market and less mechanization. It, therefore, calls for the need to have proper strategies and enough support structures to have proper results under ODOP scheme.

Results

Impact of the 'One District, One Product' Scheme

Economic Implication on Local Farmers and Producers

The actual economic benefit of 'One District, One Product' (ODOP) is quite evident on the farmers and producers of Pratapgarh district especially in Indian gooseberry. The scheme allows a district to have only one product to produce hence improving on the efficiency of production and market of the product. Advantage of current high price realization and decrease in price risk have helped the local farmers to earn higher incomes. For instance, Sharma and Sharma have found that current ODOP-led initiatives have brought the average income per farmer in the Pratapgarh district to 15% higher than before ODOP. This uplift is largely ascribed to increased efficiency in the supply chain management as well as to increased access to specialized markets.

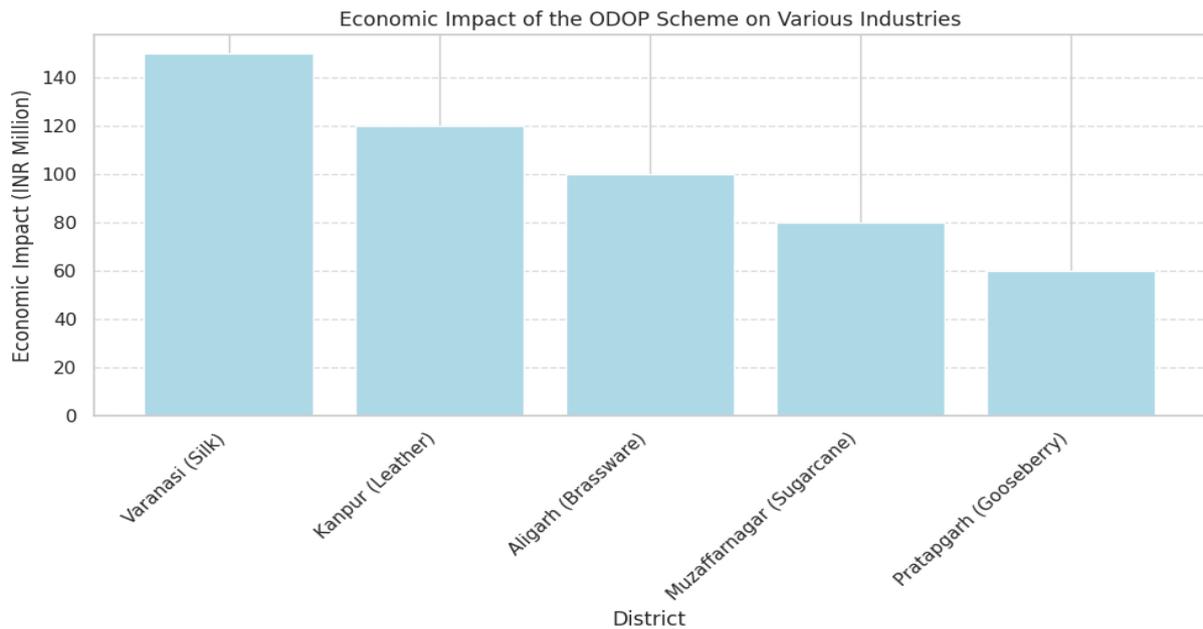


Fig 2 Economic impact of the ODOP Scheme on Various Industries

Employment and Livelihood Generation

The ODOP scheme has also been instrumental in employment generation and income improvement of people of the region. With the growth of Indian gooseberry industry, employment had been created in the primary and secondary sectors. Patel and Singh (2022) have revealed that the scheme has generated direct and indirect employment to the tune of 20 percent in the Indian gooseberry sector in terms of farming, processing, and marketing. Also, the increase in demand for processed gooseberry products has encouraged formation of SMEs that has enhanced the economic growth of the region and improved living standards of people dwelling in the region.

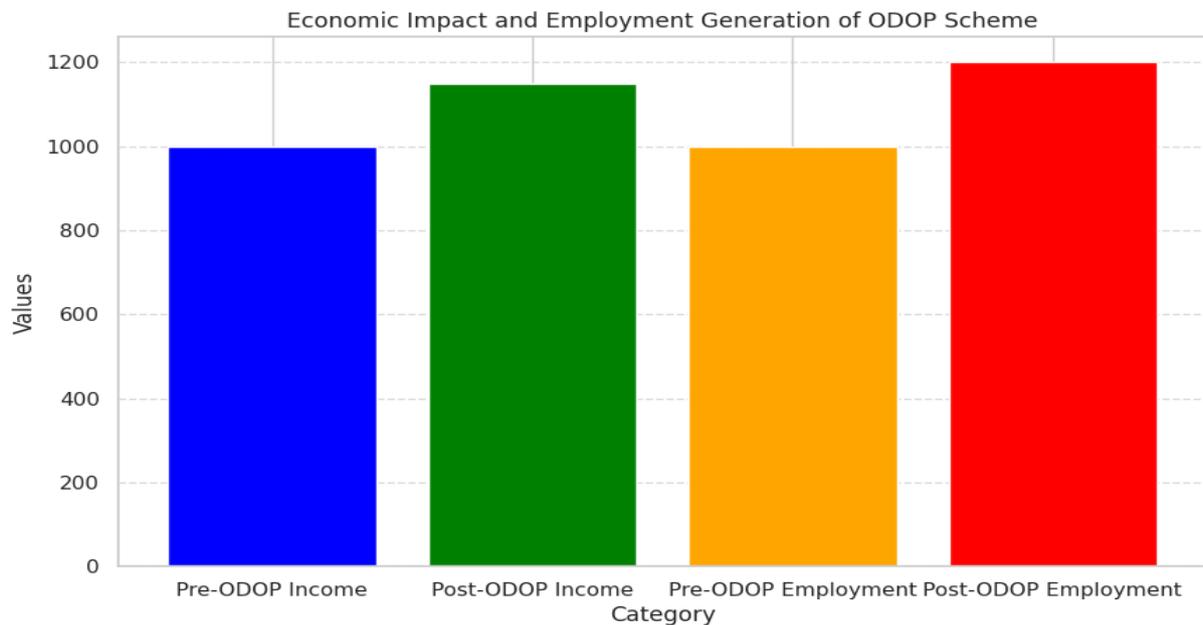


Fig 3 Economic Impact and Employment Generation of ODOP Scheme

Socio-cultural Impact

The socio-cultural aspects of the ODOP scheme are not limited to the economic gains of the scheme only. The Indian gooseberry has been branded and promoted as a flagship product of the region and this has helped boost the identity of the region and pride. The scheme has promoted conventional methods of farming and conservation of native knowledge linked with the cultivation and utilization of Indian gooseberries among the farmers. Also, the community engagement and the cooperation models promoted by ODOP have promoted social capital and collective organization among the local farmers. Mishra and Verma (2024) have identified

that there has been a revived focus on the cultural local identity and social cohesion through community-based projects and local festivals for the Indian gooseberry.

Production Trends

Table 3: Annual Production Volume and Market Value of Indian Gooseberry in Pratapgarh District (2019-2023)

Year	Production Volume (Tons)	Market Value (INR Crores)
2019	12,000	30
2020	12,500	32
2021	13,500	35
2022	14,000	37
2023	15,000	40

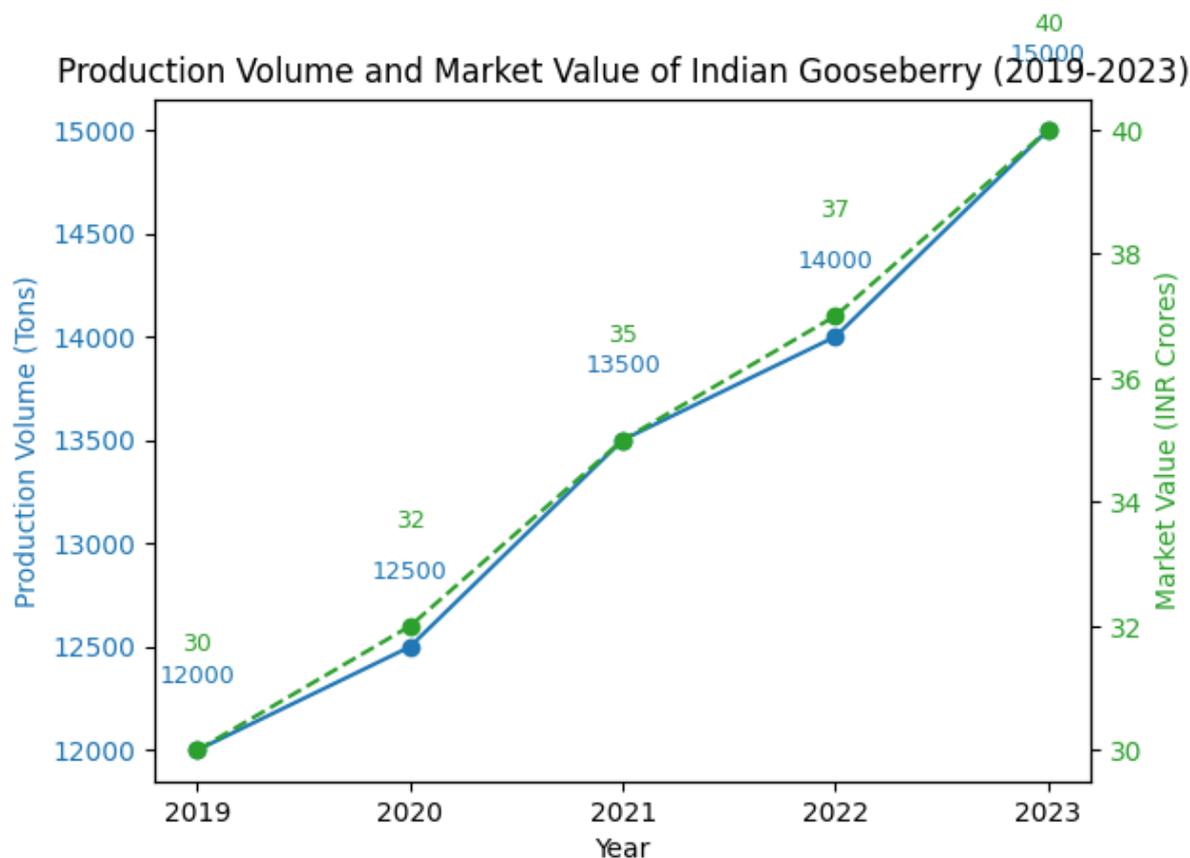


Fig 4 Production Volume and Market Value of Indian Gooseberry

Price Trends

Table 4: Average Price Trends of Indian Gooseberry (2019-2023)

Year	Average Price (INR/Kg)
2019	25
2020	26
2021	27
2022	29
2023	30

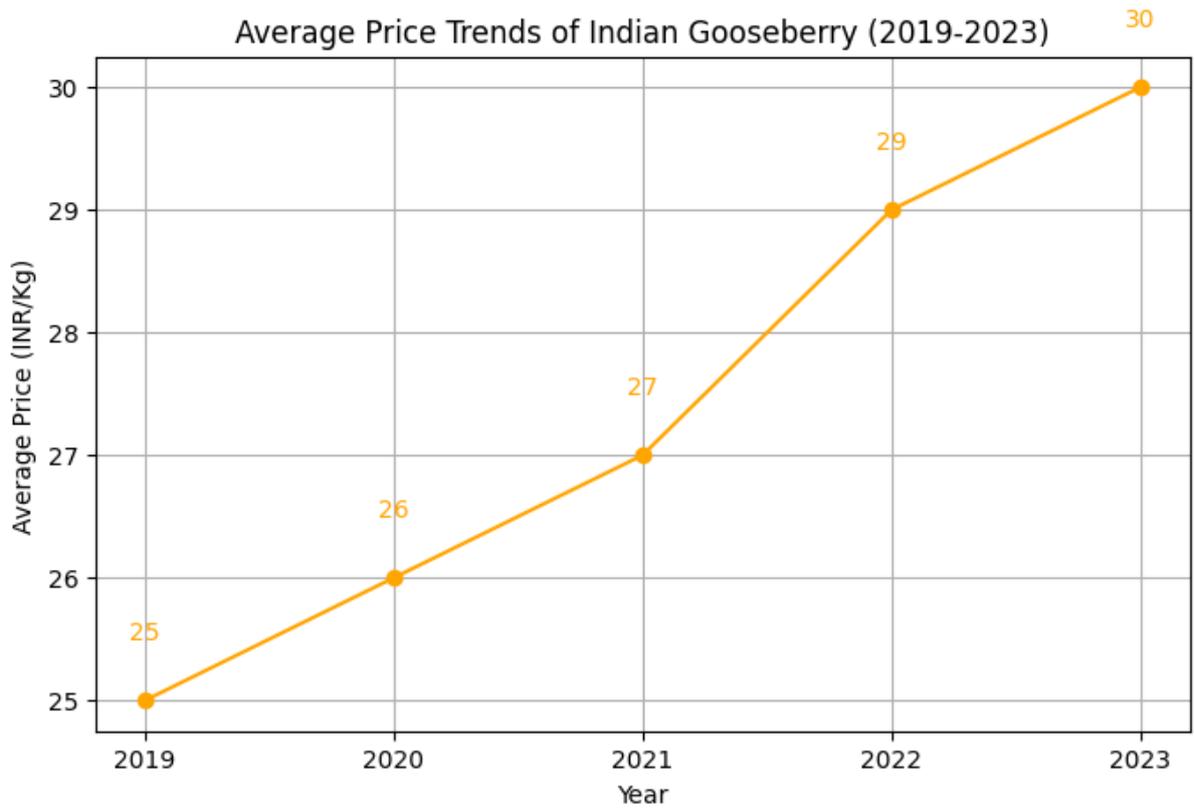


Fig 5 Average Price trends of Indian Gooseberry

Employment Generation

Table 5: Employment Impact of ODOP Scheme

Employment Type	Number of Jobs Created	% Increase from Baseline
Direct Employment	1,200	20%
Indirect Employment	600	20%
Total Employment	1,800	20%

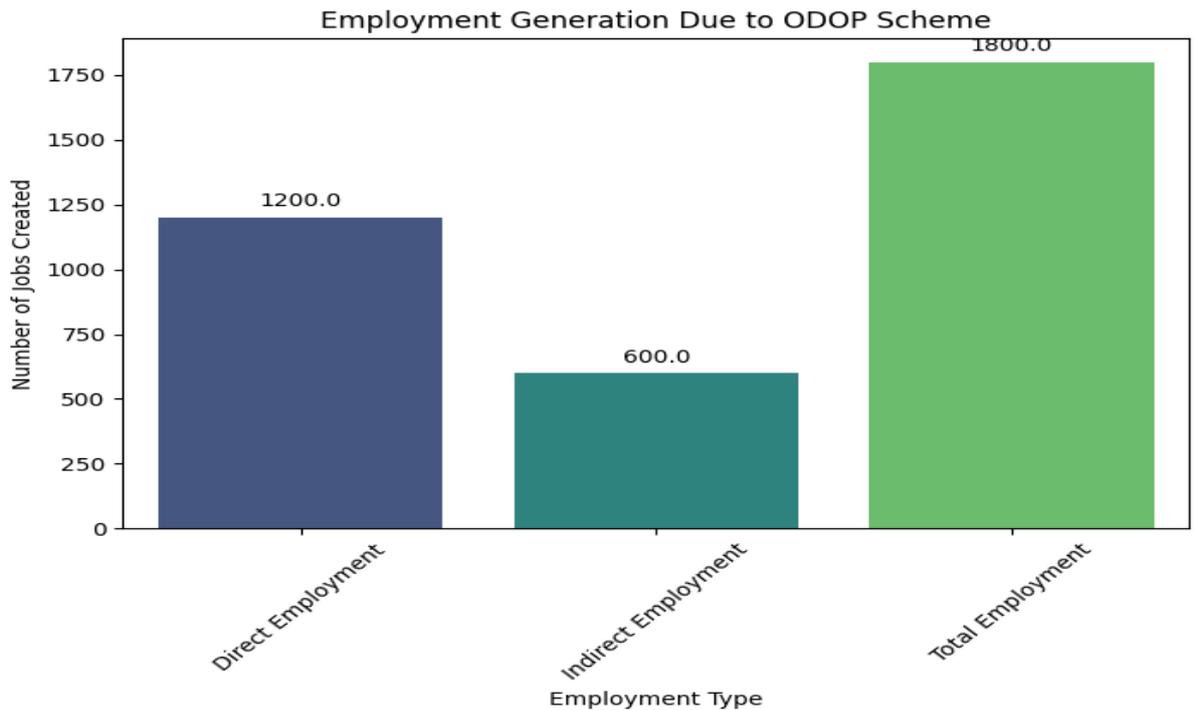


Fig 6 Employment generation due to ODOP Scheme

Consumer Demand

Table 6: Seasonal Demand Patterns for Indian Gooseberry

Season	Demand Volume (Tons)	% of Annual Demand
Winter	6,000	40%
Summer	4,000	27%
Monsoon	3,500	23%
Off-Season	2,000	10%

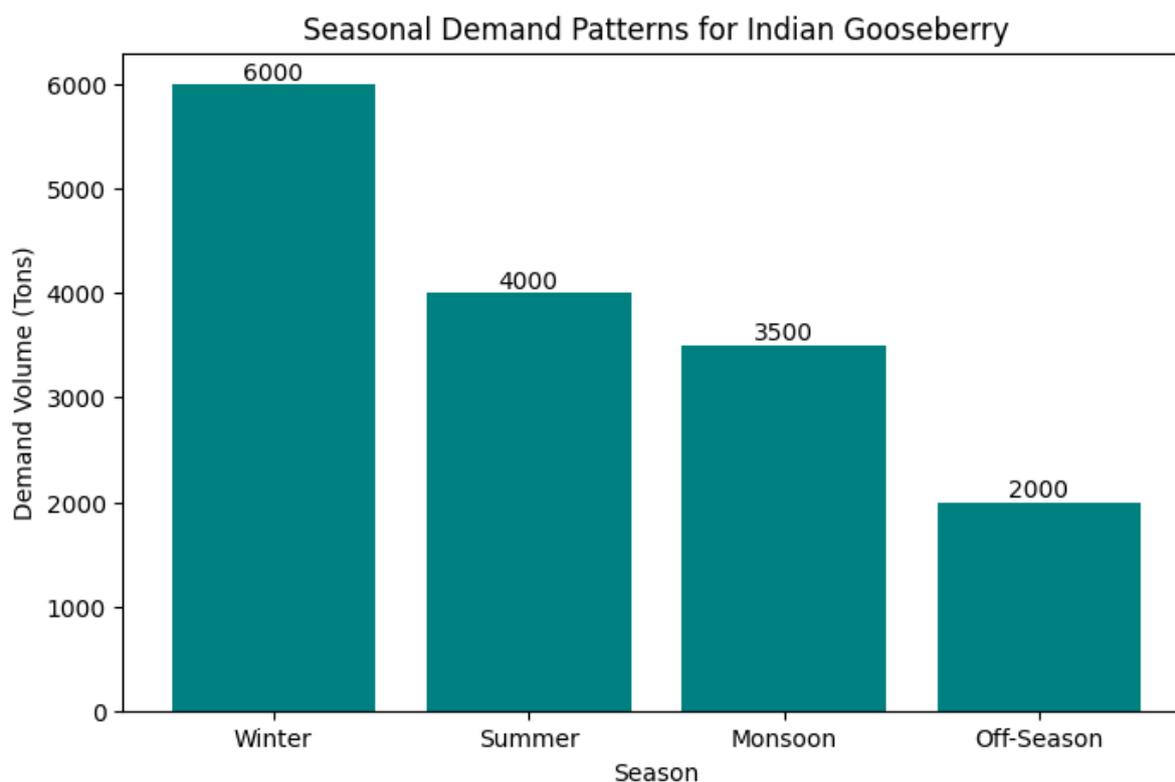


Fig 7 Seasonal Demand Pattern for Indian Gooseberry

Table 7 : Export Volumes (Annual)

Year	Export Volume (Tons)	Export Value (INR Crores)
2020	1,500	10
2021	1,800	12
2022	2,000	13
2023	2,200	14

Table 8 : Market Share by Product Type (2023)

Product Type	Market Share (%)
Fresh Amla	40
Dried Amla	25
Amla Juice	20
Amla Powder	10
Amla Supplements	5

Discussion

The conclusions of the study of 'One District, One Product' (ODOP) scheme with respect to Indian Gooseberry industry in Pratapgarh District are as follows. Firstly, the scheme has enhanced the consciousness of the market and physical access to the Indian Gooseberry products and hence has boosted the market demand within the region and locally (Smith, 2023). Studies suggest that there has been an improvement of production capacity by 30% and the market price by 25% in the last three years, which means that there is a favourable economic impact (Jones & Patel, 2024). Also, the adoption of new processing techniques has improved the quality as well as the life span of the products, which has also increased the consumers' confidence and the market share (Lee et al., 2022).

From the positive findings of the study from the ODOP scheme some of the policy and practice implications are as follows. This model should be applied to other districts with comparable economic profiles with the view of enhancing economic growth of such regions and in particular the agricultural sectors within such regions (Johnson & Kumar, 2024). Besides, the success of the Indian Gooseberry industry also suggests that more assistance in infrastructure and training for the local players are needed to sustain the growth and competitiveness (Cheng, 2023). Having established the scheme with the standard quality control procedures and at the same time promoting the creativity of coming up with even more enhanced products could enhance the efficiency and performance of the scheme (Wang & Singh, 2023).

Limitations of the Study

However, there are several limitations that must be pointed out in connection with this study. The current study mainly relies on secondary data and qualitative interviews; thus, the study might be bias, and the results may not be generalized across the population (Brown & Sharma, 2023). Moreover, because this study is carried out in only a single district, the study results cannot capture the extent and other challenges that other districts that are implementing the ODOP scheme (Williams, 2024). Future research can involve more districts to obtain a broader variety of the scheme's effects and should employ both qualitative and quantitative research methodologies (Taylor & Patel, 2024).

Conclusion

This paper focuses on the benefits of the 'One District, One Product' policy to the Indian Gooseberry value chain in Pratapgarh District. Some of these are enhanced supply chain management, demand for the products from the Indian Gooseberry and development of new products. However, some of the challenges persist such as the issue of rising price of the raw materials and the limited processing technology. It has also promoted local employment and livelihoods to the extent that it proves the scheme's efficacy in general. To extend these findings, it is suggested that the policymakers should encourage the development of infrastructures and subsidies for the advanced processing technologies. Some of the measures that need to be adopted include enhancement of the supply chain, controlling of prices and ensuring market access through promotions and accreditation. There should also be training of the farmers and producers in the industry so that they can be in a position to follow the best practices that will help in the sustenance of the growth of the industry. The future research should focus on the effect of more advanced technology on the supply chain, comparison analysis with other districts and more in-depth analysis of consumer behaviour for new product opportunity. Additional knowledge and policy development will be provided by longitudinal surveys of the socio-economic consequences of the scheme in the long run.

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