

Challenges in Marketing of Cash Crops in Kinnaur and Lahaul & Spiti Districts of Himachal Pradesh

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Abstract: *The districts of Kinnaur and Lahaul & Spiti in Himachal Pradesh are renowned for their cultivation of high-value cash crops such as apples, peas, and off-season vegetables. Despite the agro-climatic advantages and the increasing demand for these crops in urban markets, farmers in these regions face a multitude of challenges in effectively marketing their produce. This paper investigates the core issues impeding agricultural marketing, including infrastructural deficiencies, geographical isolation, lack of organized market channels, and limited access to technological and institutional support. It also outlines policy recommendations and strategic interventions aimed at improving market access and ensuring better price realization for the farmers. The study is based on secondary data, government reports, and field-level insights and seeks to contribute to the ongoing discourse on sustainable agricultural development in Himalayan regions.*

Keywords: Cash Crops, Marketing, Sustainable Agriculture

1. Introduction

Agriculture in the high-altitude regions of Himachal Pradesh, particularly in Kinnaur and Lahaul & Spiti, has undergone significant transformation over the last few decades. With the adoption of horticulture and off-season vegetable cultivation, these districts have emerged as important contributors to the state's agricultural economy. Crops such as apples, green peas, cauliflower, and exotic vegetables are not only suited to the climate of these areas but also fetch premium prices in national markets.

However, the marketing of these cash crops remains a major blockage in realizing the full economic potential of the region's agricultural output. Due to harsh terrain, inadequate infrastructure, and minimal access to organized markets, farmers often receive suboptimal returns for their produce. The situation is exacerbated by climatic risks, post-harvest losses, and lack of access to timely market information.

This paper aims to explore the specific challenges that farmers in Kinnaur and Lahaul & Spiti face in the marketing of cash crops. Through an analytical perspective, it examines infrastructural, institutional, and socio-economic factors that hinder efficient market access. The paper also proposes actionable recommendations for improving the marketing ecosystem in these remote hill districts, with an emphasis on sustainability and resilience.

2. Literature Review

Marketing of agricultural produce in remote and mountainous regions has been the focus of numerous studies, especially in the context of the Himalayan states. Existing literature highlights the interplay between geography, infrastructure, policy, and socio-economic factors in shaping agricultural market systems.

1) Bhalla & Singh (2009) in their study, *"Economic liberalisation and Indian agriculture"* argue that hilly and tribal areas face unique challenges due to terrain-induced isolation and underdeveloped infrastructure. The lack of direct access to mandis (agricultural markets) and

- organized supply chains often forces farmers to depend on intermediaries, resulting in reduced price realization.
- 2) According to a study by the National Institute of Agricultural Marketing (NIAM, 2015), in *"Market Access and Value Chain Development for Horticulture Crops in Hilly Areas"* have revealed the dominance of middlemen in agricultural supply chains leads to exploitative pricing, particularly in areas where market linkages are weak. Farmers in Kinnaur and Lahaul & Spiti often lack direct access to urban markets, which results in limited negotiating power.
- 3) HPHDP and Sharma et al. (2017) in their study *"Horticultural marketing issues in Himachal Pradesh: A case study of apple growers in Kinnaur"* have highlighted that while districts like Kinnaur and Lahaul have witnessed a horticultural revolution, especially with apple cultivation, marketing remains a weak link in the value chain. Cold storage, transportation, and grading facilities are either absent or insufficiently developed.
- 4) A 2018 report *"Cold Chain: Logistics Gap Assessment in Himalayan States"* by NITI Aayog identified the absence of adequate cold storage and processing units as one of the key factors responsible for post-harvest losses in Himachal Pradesh. This issue is particularly acute in Lahaul & Spiti, where the growing season is short, and perishability of produce is high.
- 5) Government schemes like the eNAM (Electronic National Agriculture Market), formation of Farmer Producer Organizations (FPOs), and infrastructure development under Rashtriya Krishi Vikas Yojana (RKVY) aim to improve market access. However, field evaluations by local NGOs and agricultural universities (e.g., YS Parmar University) show that uptake remains low due to lack of awareness, digital illiteracy, and weak local institutional support.
- 6) Recent literature explores the potential of digital platforms, community-owned cold chains, and cooperative marketing models as possible solutions. For example, pilot projects in Uttarakhand and Sikkim show that community-based marketing initiatives have improved price realization and reduced dependence on middlemen.

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- 7) Singh (2024) in his study “**Changing and Issues of Agriculture in Himachal Pradesh**” reveal’s that, the agriculture industry in Himachal Pradesh contributes about 45% to the Gross domestic product of the state’s economy. The author focuses on Cash crops grown in Himachal Pradesh and identification of problems of agriculture in Himachal Pradesh. According to the author the major problems faced by the agriculturist includes production problem, marketing problem financial problems and institutional problems. Further, the author analyse that about 71% of the working population in Himachal Pradesh is employed in agriculture. Out of the total geographical area of 55,673 million hectares, 8.63 million farmers farm the agricultural community of 9.99 million hectares.

Small and marginal farmers of Himachal Pradesh own about 84.5% of the total land owned by agricultural community. However, only 10.4% of the total area of the state is used for agriculture, and only 8% of this is accounted for.

This review highlights that while the problems faced by Kinnaur and Lahaul & Spiti are not unique, the severity of logistical and infrastructural issues necessitates context-specific, sustainable interventions.

3. Research Gap

Despite considerable research on agricultural marketing and infrastructural challenges in Himachal Pradesh, several **research gaps** remain unaddressed. Existing studies, such as those by Bhalla & Singh (2009), NIAM (2015), and Sharma et al. (2017), have extensively discussed market access constraints, dominance of intermediaries, and inadequate cold chain infrastructure in hilly and tribal regions like Kinnaur and Lahaul & Spiti. However, there is limited empirical analysis on the **effectiveness and long-term sustainability** of recent policy interventions such as eNAM, Farmer Producer Organizations (FPOs), and schemes under RKVY in improving farmers’ market integration and income levels. While reports like the NITI Aayog (2018) assessment highlight infrastructure gaps, they do not sufficiently explore **how localized socio-economic and institutional factors** (e.g., digital literacy, cooperative strength, and terrain-specific logistics) influence the success or failure of these interventions. Furthermore, emerging literature on digital and community-based marketing models in neighbouring states offers potential solutions, yet **comparative or impact-based studies** within Himachal Pradesh remain scarce. Singh’s (2024) macro-level analysis emphasizes the economic significance of agriculture in the state but provides limited micro-level insights into the **interlinkages** between production, marketing, and institutional barriers across diverse agro-climatic zones. Thus, there is a need for **integrated, region-specific, and evidence-based research** focusing on the effectiveness of market linkages, digital interventions, and cooperative frameworks in enhancing farmers’ income and reducing post-harvest losses in Himachal Pradesh’s hilly and tribal districts.

4. Need of the Study

The need for studying the challenges in marketing of cash crops in Kinnaur and Lahaul & Spiti districts of Himachal Pradesh arises from the unique geographical, climatic, and socio-economic conditions of these regions. Both districts are located in remote, high-altitude Himalayan areas where difficult terrain, poor connectivity, and harsh winters severely limit access to markets. Over the years, farmers in these areas have shifted from traditional subsistence farming to cash crops such as apples in Kinnaur and potatoes, peas, and vegetables in Lahaul & Spiti, in search of higher income opportunities. However, despite increased production, farmers often face severe marketing constraints that prevent them from realizing fair prices for their produce. The lack of adequate infrastructure such as cold storage, transportation facilities, and organized markets, along with the perishability of crops and limited working season, result in significant post-harvest losses. Moreover, dependence on intermediaries, absence of cooperative marketing systems, and lack of timely market information further reduce farmers’ bargaining power and income. These challenges are compounded by climatic uncertainties, road blockages, and the remoteness of villages, which make marketing a risky and uncertain activity. Therefore, a systematic study on the marketing of cash crops in these districts is essential to understand existing gaps, identify constraints, and suggest practical solutions for improving marketing efficiency. Such a study would also provide valuable insights for policymakers to design region-specific interventions, enhance farmers’ income, and promote sustainable rural development in these vulnerable mountain regions.

5. Objectives of the Study

The study is designed to explore and evaluate the multifaceted challenges in the marketing of cash crops in the high-altitude districts of Himachal Pradesh. The specific objectives are:

- To identify the key challenges in marketing of cash crops in the study areas.
- To examine the impact of these marketing challenges on the incomes and livelihoods of local farmers, particularly small and marginal cultivators.
- To analyze the contribution of cash crop cultivation to the overall living standards of farmers in the region.
- To assess the adequacy and effectiveness of existing infrastructure, such as transportation and storage facilities, in supporting the marketing and distribution of cash crops.

6. Database and Methodology

The present study is based on both **primary** and **secondary data sources**, combining field-level realities with documented research and statistical insights.

Primary Data Collection:

Primary data was collected through **field surveys** conducted across selected villages in **Kinnaur** and **Lahaul & Spiti** districts during the year **2024**. The survey involved:

- **Structured interviews** with farmers engaged in the cultivation of cash crops such as apples, peas, and off-season vegetables.

- **Discussions with local traders, commission agents, and transporters** to understand the dynamics of the agricultural marketing chain.
- **Consultations with government officials and representatives from local cooperatives and FPOs** to gather institutional perspectives.

A **random sampling method** was adopted to select respondents, ensuring a diverse representation across farm size, crop types, and market participation levels. A total of **[300] respondent** were interviewed across the two districts.

Secondary Data Collection:

Secondary data was sourced from:

- Government publications such as the **Economic Survey of Himachal Pradesh**, reports from the **Department of Horticulture**, and district-level agriculture statistics.
- Academic literature including books, journals, and research papers authored by scholars specializing in hill agriculture and rural marketing.
- Reports and white papers from policy think tanks, NGOs, and international organizations working in the Himalayan region.

Analytical Tools:

The collected data was analyzed using the **percentage method** to identify trends, challenges, and commonalities. Descriptive statistics were used to interpret the responses and derive qualitative insights.

7. Analysis and Interpretations

The economy of the study area is dependent on various crops produced in the area and marketing of crops. In Himalayan ranges, marketing of crops has become the major consideration of change in cropping pattern. As the Market facility is not good in the study regions the producers compel to sell their products outside state. In order to know whether cropping pattern of the selected tribal region has been influenced due to commercialisation and preferences of marketing of crops, Focus has been drawn here to examine the marketing of crops and cropping income of the families of the households of these two districts as shown in the table 1.

Table 1: Marketing of Crops and Annual Income from Crops in Kinnaur and Lahaul & Spiti

Districts	Marketing				Annual income from crops					
	Local/within the State	Outside State	Other	Total	Up to 1lakh	1,00,001-2lakhs	2,00,001-5lakhs	5,00,001-10lakhs	Above 10lakhs	Total
Kinnaur	63 (31.5) (43.75)	136 (68) (96.45)	1 (.5) (100)	200 (100) (69.93)	66 (31.4) (57.89)	51 (24.3) (68.91)	68 (32.4) (86.07)	20 (9.5) (74.07)	5 (2.4) (83.33)	210 (100) (70)
Lahaul & Spiti	81 (94.18) (56.25)	5 (5.81) (3.54)	- (0)	86 (100) (30.06)	48 (53.3) (42.10)	23 (25.6) (31.08)	11 (12.2) (13.92)	7 (7.8) (25.92)	1 (1.1) (16.67)	90 (100) (30)
Total	144 (50.34) (100)	141 (49.30) (100)	1 (.34) (100)	286 (100) (100)	114 (38) (100)	74 (24.66) (100)	79 (26.33) (100)	27 (9) (100)	6 (2) (100)	300 (100) (100)

Source: Data collected during field investigation through interview schedule

In Kinnaur: 68% of respondents are selling their crops **outside the state**, indicating a reliance on external markets due to insufficient local or state-level market facilities. Only **31.5%** sell their crops within the state.

On the contrary, The vast majority of respondents (94.18%) of **Lahaul & Spiti:** sell their crops **within the state**, signifying better access to local markets or possibly fewer transport barriers to neighboring regions.

The above data reveals that farmers in **Kinnaur** predominantly sell their crops outside the state, while **Lahaul & Spiti** farmers have a higher percentage of sales within the state.

In **Kinnaur**, the **majority of respondents** (32.4%) report earning **Rs. 2-5 lakhs** annually from crop cultivation. This group represents those with more established crop markets, such as **apple growers**. In **Lahaul & Spiti**, most farmers earn **up to Rs. 1 lakh** (53.3%), pointing to **lower income levels** in the region, possibly due to lower market demand and smaller-scale crop production.

Further, the marketing system in both regions illustrates how **market access influences income:**

- **In Kinnaur** majority of the respondents sell their produce outside the state, which often results in higher incomes for some (32.4% of respondents earning **Rs. 2-5 lakhs**), it also points to a dependence on external markets and inadequate local infrastructure.
- **While in Lahaul & Spiti** the local market is the dominant channel, but the income remains low due to **limited market access**, with **53.3% of farmers** earning below **Rs. 1 lakh** annually. This is primarily due to **low market prices** and **lack of commercialization** of key crops.

The data concludes that marketing challenges significantly affect farmers' incomes in both **Kinnaur** and **Lahaul & Spiti**. While **Kinnaur** benefits from more external market access, the reliance on **outside states** for sales indicates weaknesses in local infrastructure and market development. In contrast, **Lahaul & Spiti** relies predominantly on **local markets**, but low incomes suggest that the lack of commercial viability is a major concern.

8. Findings of the Study

The findings of the study are organized around the four core objectives. Based on field surveys, stakeholder interviews, and secondary data analysis, the following key insights emerged from the districts of **Kinnaur** and **Lahaul & Spiti**:

Farmers in both districts reported a range of interconnected challenges, primarily logistical and infrastructural in nature:

- Poor road connectivity, especially during winters and monsoons, severely hampers the movement of produce. In Lahaul & Spiti, snowbound roads often isolate villages for months.
- The distance from markets and the cost of hiring private transport reduce farmer profits significantly.
- Absence of local cold chain infrastructure leads to post-harvest losses, especially for perishable crops like peas and apples.
- Due to the lack of organized market access, farmers often rely on commission agents or local traders, who dictate prices.
- With little access to market intelligence, farmers are unable to time their sales or negotiate better rates.

The common effect of marketing challenges is a noticeable reduction in net income for small and marginal farmers:

- Farmers earn only a fraction of the end-market value of their produce.
- Seasonal and market-related risks lead to fluctuating earnings, making livelihood planning difficult.
- In years of poor sales, many farmers resort to informal loans to meet household and farming expenses.
- Some farmers limit production intentionally due to the fear of unsold surplus or transportation hurdles.

Despite the marketing difficulties, cash crops remain a crucial source of livelihood and economic upliftment in the region:

- Families engaged in apple cultivation in Kinnaur reported improvements in housing, education, and healthcare access.
- Seasonal employment during harvesting and packaging supports not only landowners but also laborers from neighboring regions.
- The success of horticulture has shifted many farmers from subsistence to commercial farming, improving overall socio-economic conditions.

However, these benefits are **unequally distributed**, with larger orchard owners or well-connected farmers enjoying greater returns due to better market access and storage options.

Infrastructure remains the most cited constraint in scaling up and sustaining cash crop marketing:

a) Transport Infrastructure:

- Roads are narrow, landslide-prone, and often unpaved in many interior villages.
- Limited availability of transport vehicles during peak harvest season further strains farmers.

b) Storage and Handling Facilities:

- In Kinnaur, some cold stores exist but are often too far or too costly for small farmers.

- In Lahaul & Spiti, there is almost complete absence of modern storage or packaging units.

c) Market Infrastructure:

- Few regulated mandis exist locally.
- Lack of weighing, grading, and packaging facilities forces farmers to sell produce in bulk without quality-based pricing.

9. Conclusion and Suggestions

9.1 Conclusion

The study reveals that while **cash crop cultivation in Kinnaur and Lahaul & Spiti** has significantly contributed to the transformation of local agrarian economies, **marketing remains a critical bottleneck**. Farmers face a combination of **infrastructural, institutional, and market-related challenges** that prevent them from realizing the full value of their produce. Poor transportation networks, lack of cold storage, heavy dependence on intermediaries, and volatile pricing continue to impact **farmers' income stability and quality of life**.

Despite these challenges, cash crops have improved living standards for many, particularly in terms of housing, education, and employment. However, the benefits are **unevenly distributed**, and smallholders are disproportionately affected by marketing inefficiencies. Without timely interventions, the long-term sustainability and profitability of horticulture in these regions may be at risk.

9.2 Suggestions

To improve the marketing ecosystem for cash crops in the hill districts of Himachal Pradesh, the following policy and practical recommendations are proposed:

- Accelerate construction and maintenance of **all-weather roads**, particularly in snow-prone and landslide-affected areas.
- Establish **dedicated cold storage units and pre-cooling facilities** in cluster villages and block headquarters.
- Encourage the formation and capacity-building of **FPOs** to enhance farmers' collective bargaining power.
- Provide training in **post-harvest handling, grading, and packaging**, which are crucial for better market access.
- Link local produce to **regulated mandis**, online platforms (e.g., eNAM), and **urban wholesale markets**.
- Organize periodic **farmer-buyer meets**, especially during peak seasons, to eliminate middlemen.
- Improve **mobile and internet connectivity** in rural areas to help farmers access market information and pricing updates.
- Facilitate easy access to **crop insurance, institutional credit, and warehouse receipt financing** to reduce economic vulnerability.
- Provide **seasonal transport support** (especially during harvest months) to help farmers reach mandis in nearby cities.
- Encourage **public-private partnerships** to create mobile procurement vans or temporary collection centers.
- Train farmers in **crop diversification** and integrated farming systems to reduce income risks.

- Promote **value-added processing units** (like apple juice, jam, or pea freezing plants) to reduce perishability and increase value.
- Improving **cold storage, transportation facilities, and local market infrastructure** would help farmers preserve their crops and reduce dependence on external markets.
- Establishing **direct market linkages** and **Farmer Producer Organizations (FPOs)** can help farmers in both districts gain access to fairer prices and larger markets.
- Efforts to stabilize prices and **reduce volatility** through better market intelligence and government intervention are crucial to ensure farmers' incomes are protected.

- [17] Attri, Rajender, *Himachal Pradesh: A Himalayan Dreamland*, Shimla: Sarla Publications, 2015.
- [18] Bakshi, S.R. and Kiran, Bala, *Social and Economic Development of Scheduled Tribes*, New Delhi: Deep and Deep Publication Pvt. Ltd., 2000.
- [19] Dhondyal, S.P., *Problem of Indian Agriculture*, Meerut: Friends Publication, 1995.
- [20] Govind, N., *Regional Perspectives in Agricultural Development*, New Delhi: Concept Publishing Company, 1986.
- [21] Grigg, D., *The Dynamics of Agricultural Change, The Historical experience*, London: Hutchinson, 1982.
- [22] Jodha, N.S. et al. (ed.), *Sustainable Mountain Agriculture*, New Delhi: IBH Publishing Co., 1992.

References

- [1] Bhalla, G. S., & Singh, G. (2009). *Economic liberalisation and Indian agriculture: A district-level study*. Sage Publications.
- [2] Sharma, R., Thakur, N., & Negi, R. (2017). *Horticultural marketing issues in Himachal Pradesh: A case study of apple growers in Kinnaur*. Journal of Rural and Agricultural Research, 17(2), 56–61.
- [3] National Institute of Agricultural Marketing (NIAM). (2015). *Market Access and Value Chain Development for Horticulture Crops in Hilly Areas*. NIAM Research Paper Series.
- [4] NITI Aayog. (2018). *Cold Chain: Logistics Gap Assessment in Himalayan States*. Government of India.
- [5] Himachal Pradesh Horticulture Development Project (HPHDP). (2020). *Mid-term Review Report*. Department of Horticulture, Govt. of Himachal Pradesh.
- [6] YS Parmar University of Horticulture and Forestry. (2021). *Status Report on Farmer Awareness and Institutional Support in High-Altitude Agriculture*.
- [7] Government of Himachal Pradesh. (2023). *Economic Survey of Himachal Pradesh 2022-23*.
- [8] Dhanbir Singh (2024) “**Changing and Issues Of Agriculture In Himachal Pradesh**” **International Journal of Creative Research Thoughts (IJCRT)** ISSN: 2320-2882, Volume 12, May 2024, pp.418-424.
- [9] Himachal Pradesh Agriculture Department. (2020). *Annual Report 2019-20*.
- [10] Government of Himachal Pradesh. (2019). *Economic Survey of Himachal Pradesh 2018-19*.
- [11] Sharma, R. (2018). *Agricultural Marketing in Himachal Pradesh: Challenges and Opportunities*. Journal of Agricultural Marketing, 5(1), 1-12.
- [12] Kumar, S. (2020). *Crop Marketing in Himachal Pradesh: A Study of Farmers' Perception*. Journal of Agricultural Science and Technology, 20(2), 345-356.
- [13] Balokhra, Jag Mohan, *The Wonderland Himachal Pradesh*, H.G. publication New Delhi, 1995, pp396
- [14] Redepa, L., *Food Security in India*, New Delhi: Kanishka Publishers, 2011.
- [15] Pratap, Tej, “Hill Agriculture: Challenges and Opportunities”, *Agricultural Economics*, 2011.
- [16] Wani, M.H., “Hill Agriculture in India: Problems and Prospects of Mountain Agriculture”, *Agricultural Economics*, 2011.