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Sustainability Certifications in India: Impacts on Farmers, Manufacturers, and Urban Consumer Behavior

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Abstract:

In India, sustainability certificates are seen as essential instruments for encouraging socially conscious, ecologically friendly, and commercially successful agricultural and food processing methods. These certifications offer a reliable way to indicate adherence to accepted sustainability guidelines, empowering producers, consumers, and farmers to make well-informed choices about their output and consumption. Producers can increase product quality, expand their market reach, and win over customers by following these guidelines, and consumers can select goods that are consistent with their moral and environmental beliefs. The Rainforest Alliance, Fruit Products Order (FPO) mark, Rainforest Alliance, Organic Certification (NPOP/India Organic), and Ecomark are among the important sustainability certifications in India that are reviewed in this study. It looks at issues including high prices, complicated compliance, technological limitations, and market restrictions that farmers and processed food producers must deal with. The study also looks at the buying desires of urban consumers and how the government may help with adoption, advertising, and compliance. There includes discussion on the implications for researchers, marketers, and policymakers.

Keywords: Sustainability certifications, India, consumer purchase intention, farmers' challenges, government role

Introduction

In India, sustainability certifications for processed foods and agricultural products are becoming more widely acknowledged as essential tools for guaranteeing socially and environmentally responsible, profitable manufacturing methods. These certifications provide reliable proof that goods adhere to social and environmental norms, empowering producers, suppliers, and consumers to make well-informed choices regarding sourcing, manufacturing, and consumption. As environmental issues including pollution, water scarcity, soil degradation, and climate change increase, customers are become increasingly aware of how their purchases affect the environment and society. The demand for certified products that ensure ethical and sustainable supply chain procedures has surged due to this increasing awareness.



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In India, sustainability certifications like Rainforest Alliance Certification, Fruit Products Order (FPO) mark, Rainforest Alliance Organic (NPOP/India Organic), Organic Certification (NPOP/India Organic), and Ecomark are essential for encouraging adherence to moral and environmental norms. These certifications give producers the chance to increase the quality of their products, gain access to both home and foreign markets, and win over customers. They serve as trustworthy indicators of product quality, authenticity, and ethical manufacture for customers, promoting responsible consumption.

The growing significance of environmental stewardship and corporate social responsibility in India's food business is also reflected in the rising number of sustainability certifications. In addition to guaranteeing adherence to moral manufacturing standards, certifications also support sustainable farming and processing methods, assist distinguish goods in cutthroat urban marketplaces, and improve brand recognition.

In addition, institutional support, legal frameworks, and government policies are crucial in encouraging uptake, keeping an eye on compliance, and opening up markets for certified goods.

These initiatives are essential in tackling issues that farmers and processed food producers confront, including high certification prices, intricate compliance requirements, technical constraints, and a lack of market incentives. With an emphasis on certification kinds, producer challenges, urban consumers' buying intentions, and the function of government legislation.

Overview of Major Sustainability Certifications in India

India provides a number of sustainability certifications for processed foods and agricultural goods that are intended to guarantee production that is socially, ecologically, and economically responsible. These certifications give consumers a way to find reliable, certified items and give businesses a systematic framework for adhering to sustainable practices.

Organic Certification (NPOP / India Organic)

- ➤ **Authority:** APEDA (Agricultural and Processed Food Products Export Development Authority)
- > **Scope:** Covers organic farming practices without synthetic fertilizers, pesticides, or GMOs; applicable to crops, processed foods, and export products.
- ➤ Certification Process: Selection of an accredited Certification Body (CB), submission of farm/production records, on-site inspection, corrective actions for non-conformities, and issuance of certification valid for one year with annual renewal.
- **Benefits:** International recognition, compliance for exports, enhanced consumer trust.

2. Rainforest Alliance Certification

- > **Authority:** Rainforest Alliance (Global)
- > **Scope:** Promotes sustainable agriculture, ecosystem conservation, fair labor practices, and economic viability; applicable to coffee, tea, cocoa, spices, fruits, and processed foods.
- ➤ Certification Process: Align practices with standards, choose accredited CB, submit documents and management plans, undergo on-site audit, correct non-conformities, and maintain certification with annual audits.
- > **Benefits:** Global recognition, market access, potential premium pricing, and improved consumer trust.



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3. Participatory Guarantee System (PGS)

> **Authority:** PGS India

- > **Scope:** Community-driven certification for small and marginal farmers; emphasizes local recognition and cost-effectiveness.
- > Certification Process: Register with PGS group, follow organic standards, participate in peer reviews and inspections, certification issued if standards are met.
- ➤ **Benefits:** Affordable certification, promotes sustainable local farming, encourages community engagement.

4. Fruit Products Order (FPO) Mark

- > Authority: Ministry of Food Processing Industries (MoFPI)
- > Scope: Mandatory for processed fruit products such as juices, jams, squashes, and pickles.
- > Certification Process: Apply to MoFPI with product and facility details, undergo facility inspection for hygiene and safety compliance, certification granted.
- > **Benefits:** Ensures product quality, safety compliance, and consumer protection in domestic markets.

5. Ecomark

- > Authority: Bureau of Indian Standards (BIS)
- > **Scope:** Applicable to environmentally friendly products, including certain food items, minimizing environmental impact.
- **Benefits:** Promotes environmental awareness, responsible production, and consumer trust.

Challenges Faced by Farmers and Processed Food Manufacturers

While sustainability certifications offer significant benefits for producers and consumers, their adoption in India is hindered by a variety of challenges. Farmers and processed food manufacturers face structural, financial, and technical barriers that make certification difficult to obtain and maintain.

Challenges Faced by Farmers

A number of obstacles stand in the way of Indian farmers seeking sustainability certificates. The following issues frequently prevent these certificates from being widely adopted, despite the fact that they offer chances for improved market access, increased consumer trust, and ecologically conscious farming.

High Certification Costs

Significant financial outlays are necessary for certification in the form of audit fees, inspection fees, and compliance expenses. These costs can be prohibitive for India's small and marginal farmers, who comprise the majority.

Complicated Documentation and Compliance Need

Certifications for sustainability need thorough documentation of farming methods, input use, and traceability. Many farmers lack the literacy or administrative abilities necessary to keep up with this kind of paperwork.

Limited Knowledge and Awareness

The availability of certifications and their advantages are still unknown to many farmers. Even if they are aware, they might not have access to the technical advice or training required for compliance.



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Limitations in Infrastructure and Technology

Modern methods, organic inputs, effective irrigation, waste management, and suitable storage facilities are frequently needed for the adoption of sustainable farming. Such infrastructure is frequently unavailable to farmers in rural areas.

Time-consuming Procedure

Several phases of inspection, audits, and remedial measures are required for certification. Farmers that have to manage certification with their regular farming operations may become discouraged by this drawn-out procedure.

Uncertainty in Pricing and Market Access

Farmers may still have trouble locating markets that appreciate and reward certified goods even after they have earned their certification. The financial incentive to seek certification declines in the absence of premium pricing or guaranteed buyers.

Resistance in Behaviour and Culture

Change may be resisted by farmers used to traditional or conventional farming methods because they worry about decreased yields, higher risk, or delayed rewards.

Disjointed Institutional Assistance

Financial assistance, training, and monitoring support are limited by a lack of coordination between government agencies, cooperatives, and non-governmental organisations. Farmers are consequently frequently left to handle the certification procedure alone.

Together, these obstacles prevent many Indian farmers from obtaining sustainability certificates, underscoring the need for focused government assistance, educational programs, and reasonably priced certification schemes.

Challenges Faced by Processed Food Manufacturers

India's processed food producers face several obstacles in their efforts to meet sustainability certification standards. Their capacity to implement and uphold sustainable practices is hampered by operational, technological, and budgetary limitations.

High Costs of Implementation

Making the transition to sustainable production frequently necessitates significant expenditures on cleaner production technology, waste treatment systems, eco-friendly packaging materials, and energy-efficient gear. For small and medium-sized businesses (SMEs), these expenses may be too high.

Complicated requirements for compliance and regulations

Manufacturers must meet strict environmental, social, and safety requirements in order to receive sustainability certificates. It takes a lot of resources to maintain thorough documentation, carry out frequent audits, and guarantee complete traceability throughout the supply chain.

Coordination of the Supply Chain

For raw materials, manufacturers frequently depend on a number of sources. Making sure all suppliers follow sustainability standards increases complexity and raises the possibility of non-compliance.



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Lack of Technical Knowledge

Specialised expertise is needed to implement sustainable practices, such as cutting carbon emissions, adopting green technologies, and managing waste responsibly. Many businesses do not have access to qualified advisors or professionals.

Time-consuming Procedure for Certification

Multiple inspections, third-party audits, and remedial actions are all part of the certification process, which can cause delays in product launches and production schedules.

Uncertain Demand and Returns in the Market

Although certificates lend legitimacy to processed foods, consumers are not necessarily prepared to pay more for them. The return on investment becomes questionable as a result.

Continuous Observation and Adherence

Continuous adherence to standards is necessary for certifications, and audits and re-certifications are required on a regular basis. It takes a lot of resources and sustained dedication to maintain compliance.

Limitations of Technology

Many smaller enterprises do not have access to the cutting-edge waste management technologies or biodegradable packaging options that are required to achieve sustainability standards.

These difficulties highlight the necessity of more robust government backing, monetary rewards, and technology aid to increase the accessibility and viability of sustainability certifications for Indian processed food producers.

Urban Consumers' Purchase Intention

The demand for agricultural and processed food products with sustainability certification is largely driven by urban customers. Economic, social, and psychological considerations all play a role in their purchase intentions.

Believe in Certifications

Certifications serve as a mark of quality and authenticity. Products with reputable certification labels are more likely to be trusted and bought by urban consumers, who are frequently dubious about food safety and adulteration.

Awareness of the Environment

Many urban consumers are choosing eco-friendly and ethically manufactured items as a result of growing awareness of climate change, pollution, and the loss of natural resources. Certifications are a trustworthy resource for choosing ecologically friendly products.

Social Impact and Trends in Lifestyle

Purchase decisions in metropolitan regions are also influenced by social trends, media, and peer pressure. Products with sustainability certification are becoming more widely accepted as components of a socially conscious and health-conscious way of living.

Sensitivity to Price

Even with favourable opinions, some urban consumers are unwilling to spend more for certified goods. Affordability may limit purchase intentions, particularly for middle-class consumers.



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Recognition of Brands and Labels

Consumer confidence is increased when they are familiar with certification emblems like Rainforest Alliance, FSSAI, or India Organic. Confusion or ignorance of many brands, however, may reduce the desire to buy.

Safety and Health Issues

Urban customers are increasingly choosing certified items that ensure safety and authenticity due to growing concerns about pesticide residues, food adulteration, and lifestyle disorders.

Government Role in Sustainability Certification

Sustainability certificates for agricultural and processed food products are developed, regulated, and promoted in large part by the Indian government. Government engagement guarantees that certification systems are reliable, uniform, and available to producers and consumers alike as sustainability issues acquire international attention.

Regulation and Policy Development

The government creates institutional and legal structures that specify labelling specifications, inspection protocols, and certification criteria. For instance, the Food Safety and Standards Authority of India (FSSAI) oversees food safety certifications, while the National Programme for Organic Production (NPOP) establishes rules for organic cultivation.

Monitoring and Accreditation

Governmental organisations approve certification organisations, monitor their operations, and guarantee adherence to global standards. Consistent audits and monitoring contribute to the credibility of certification procedures.

Technical and Financial Assistance

The government offers farmers and industry financial incentives, subsidies, and training programs to promote adoption. By providing farmers with direct assistance, programs like the Paramparagat Krishi Vikas Yojana (PKVY) encourage organic farming and certification.

Promotion and Awareness of Consumers

To inform consumers about the benefits of approved products, the government launches awareness programs. Consumer trust and buying intention are increased when certification brands like India Organic or Ecomark are promoted.

Recognition on a Global Scale and Facilitation of Trade

Government-supported certification programs make it easier for Indian goods to reach export markets by assisting them in meeting international sustainability criteria. For example, certified Indian products can be sold overseas thanks to NPOP's equivalency agreements with the USDA and the EU.

Discussion and Implications

The results of this study show how sustainability certificates have a variety of uses in India and how they affect consumers, manufacturers, and legislators. Certifications open doors to increased legitimacy, better market access, and maybe premium pricing for farmers and processed food producers. However, obstacles frequently arise, especially for small-scale producers, due to the high costs of



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certification, intricate compliance requirements, and inadequate infrastructure. Simplified certification processes, technical support, and targeted financial aid are needed to address these issues.

Sustainability certifications have a major impact on urban customers' purchasing intents because they foster confidence, improve product quality perceptions, and correspond with rising environmental consciousness. Price sensitivity and the scarcity of authorised products, however, continue to be obstacles. Therefore, more focus needs to be put on lowering the cost of certified products and making them available in urban areas, backed by successful marketing initiatives that emphasise the importance of sustainability.

The government plays a crucial role in bolstering certification frameworks, guaranteeing legitimacy, and encouraging uptake, according to policymakers. Initiatives like worldwide recognition agreements, awareness campaigns, and subsidies can foster an atmosphere that supports the expansion of certification. Furthermore, fostering innovation in environmentally friendly technologies and public-private collaborations will increase the efficacy of certifications.

The need for policymakers to establish supportive ecosystems, for marketers to position sustainability certifications as value-driven differentiators, and for scholars to investigate consumer behaviour, certification adoption dynamics, and long-term market outcomes are some of the implications for practice and research. Sustainability certificates can change from being legal mandates to strategic instruments that promote ethical consumerism and sustainable development in India by incorporating these viewpoints.

Conclusion

In India, sustainability certificates have become essential tools for encouraging socially conscious, ecologically friendly, and financially sustainable agricultural and food processing methods. These certificates boost urban consumers' trust, increase product quality, and open up new domestic and international market expansion options by offering a reliable guarantee of adherence to established standards. Nonetheless, there are difficulties in the certification procedure. While businesses deal with supply chain coordination, technology restrictions, and the strain of ongoing compliance, farmers deal with high expenses, complicated compliance requirements, and infrastructure limits.

Urban customers are becoming more receptive to certified products in spite of these obstacles, as a result of rising environmental consciousness, confidence in certified claims, and the sense of additional value. Through laws, subsidies, oversight systems, and public awareness initiatives, the government simultaneously plays a crucial role in regulating, facilitating, and promoting sustainability certifications.

In the future, cooperation between policymakers, producers, manufacturers, and marketers will be necessary to ensure that sustainability certifications are successful. Certifications have the potential to revolutionise sustainable consumption and production practices in India by removing systemic obstacles, increasing the price and accessibility of certified items, and raising consumer awareness. In order to contribute to a more sustainable and responsible future, this study emphasises how crucial it is to match economic, social, and environmental concerns.



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