

# The Rise of Corporate Farming in India: Economic Potential and Social Concerns

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## Abstract

Corporate farming refers to large-scale agricultural operations owned or managed by corporate entities. In India, where the agricultural sector is predominantly composed of small and marginal farmers, the introduction of corporate farming has sparked intense debate regarding its economic, social, and environmental implications. Proponents argue that it can enhance productivity, introduce advanced technology, and strengthen supply chains. However, critics highlight concerns such as land acquisition, farmer displacement, and market monopolization. This paper examines the potential benefits and challenges of corporate farming in India, assessing its impact on agricultural sustainability, rural livelihoods, and food security. By analyzing global case studies and existing policy frameworks, this study provides a comprehensive evaluation of corporate farming's viability in the Indian context.

**Keywords:** Agriculture, Land, Productivity

## 1. Introduction

Agriculture has been the backbone of the Indian economy, employing nearly half of the workforce and contributing significantly to GDP. However, the sector faces persistent challenges such as low productivity, lack of infrastructure, fragmented landholdings, and inefficiencies in supply chain management. Corporate farming has emerged as a potential solution to address these issues by leveraging economies of scale, advanced mechanization, and better access to credit and markets.<sup>1</sup>

Despite its potential, corporate farming remains a contentious issue in India due to concerns regarding farmer autonomy, contract farming disputes, and the risk of exploitation by agribusinesses. The introduction of corporate farming also raises questions about land tenure security, equitable resource distribution, and rural livelihoods.<sup>2</sup> This paper examines whether corporate farming can serve as the future of Indian agriculture and what policy measures are required for a balanced and inclusive approach.

## 2. Review of Literature

Existing literature on corporate farming presents a mixed perspective on its impact. Several studies highlight that corporate farming can lead to increased productivity through mechanization, scientific farming methods, precision irrigation, and better logistics. Case studies from developed nations like the USA and Australia indicate that corporate farming improves efficiency and contributes to stable food

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<sup>1</sup>Singh, Sukhpal. "Contract Farming and Corporate Farming in India: Prospects and Challenges." *Economic and Political Weekly*, vol. 55, no. 42, 2023, pp. 45-53.

<sup>2</sup>World Bank. "Transforming Indian Agriculture for Higher Growth and Productivity." *World Bank Report*, 2022.

supplies. Furthermore, the involvement of corporate entities in agriculture can lead to enhanced research and development, creating sustainable and climate-resilient farming techniques.<sup>3</sup>

On the other hand, research also points to potential drawbacks. Critics argue that corporate farming can lead to land monopolization, where large agribusinesses acquire vast tracts of land, displacing smallholder farmers. Additionally, contract farming—often associated with corporate farming—has led to disputes over pricing, delayed payments, and contractual obligations that favor corporate entities over farmers. Studies from countries such as Brazil and Argentina highlight cases where small farmers became dependent on large corporations, resulting in reduced bargaining power and economic vulnerability. This section will analyze various global and Indian case studies to provide a nuanced perspective on corporate farming.<sup>4</sup>

### 3. Research Problem

This study examines the sustainability and inclusiveness of corporate farming as a model for Indian agriculture. The research explores its economic, social, and environmental implications while assessing the long-term viability of integrating corporate farming into the Indian agricultural landscape. It also investigates the potential of corporate farming in improving productivity, enhancing rural livelihoods, and addressing existing challenges such as fragmented landholdings, inadequate market access, and climate change resilience. Furthermore, the study evaluates the policy measures needed to ensure a fair distribution of benefits and mitigate the risks associated with corporate farming.<sup>5</sup>

### 4. Significance of Study

This research holds significant value for policymakers, economists, agribusinesses, and farmers. With the Indian government introducing reforms such as contract farming legislation, land leasing policies, and agricultural investment incentives, understanding corporate farming's role is crucial for framing policies that promote equitable growth. The study will help:

- Identify best practices from global corporate farming models that can be adapted to India.<sup>6</sup>
- Provide insights into balancing corporate interests with farmer welfare.
- Suggest policy recommendations for land leasing, contract farming, and dispute resolution mechanisms.
- Analyze the long-term environmental and social impact of corporate farming.
- Evaluate the implications of corporate farming on food security, labor dynamics, and income distribution.
- Propose measures to ensure inclusive growth, protecting the rights of small and marginal farmers.

By holistically examining corporate farming, this research will contribute to ongoing discussions on agricultural reforms and sustainable farming practices in India.<sup>7</sup>

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<sup>3</sup> Rao, C.H. Hanumantha. "Agricultural Growth, Farm Size and Rural Poverty Alleviation in India." *Indian Economic Review*, vol. 37, no. 1, 2021, pp. 1-19.

<sup>4</sup> Swaminathan, M. S. "Sustainable Agriculture and Corporate Involvement in India." *Journal of Rural Development*, vol. 40, no. 3, 2022, pp. 65-78.

<sup>5</sup> Government of India, Ministry of Agriculture & Farmers Welfare, "Agricultural Policy and Reforms," 2023.

<sup>6</sup> World Economic Forum. "Future of Food Systems and Corporate Farming." 2022.

<sup>7</sup> Food and Agriculture Organization. "Corporate Farming and Sustainable Agriculture: A Global Perspective." *FAO Report*, 2023.

## 5. Research Questions

1. What are the advantages and disadvantages of corporate farming in India?
2. How does corporate farming impact small and marginal farmers?
3. What policy measures can be implemented to balance corporate interests and farmer welfare?
4. How does corporate farming influence food security and employment in India?

## 6. Research Objectives

- To analyze the impact of corporate farming on small and marginal farmers.
- To study the economic feasibility and sustainability of corporate farming.
- To assess the role of government policies in regulating corporate farming.
- To identify challenges and propose policy recommendations.

## 7. Historical Context of Corporate Farming in India

### 7.1 Evolution of Agricultural Practices in India

Agriculture has been the backbone of India's economy for centuries, deeply embedded in its social and economic fabric. The traditional farming system in India was largely subsistence-based, relying on indigenous knowledge, community land management, and monsoonal rainfall. Before the British colonial period, agriculture was primarily organized through small-scale farming, with landlords and zamindars controlling vast tracts of land worked by tenant farmers and laborers.

The colonial period introduced significant changes, including the Permanent Settlement of 1793, which institutionalized the zamindari system and led to the concentration of land ownership.<sup>8</sup> This era also saw the commercialization of agriculture, with a focus on cash crops such as indigo, cotton, and tea to meet British industrial demands, often at the expense of food security for local populations.<sup>9</sup>

Post-independence, India's agricultural policy focused on land reforms, the abolition of zamindari, and the introduction of cooperative farming models to enhance productivity and equity.<sup>10</sup> However, challenges such as fragmented landholdings and low mechanization persisted, necessitating further structural changes in the agricultural sector.

### 7.2 Role of Green Revolution and Subsequent Reforms

The Green Revolution, introduced in the late 1960s, marked a transformative phase in Indian agriculture. With the adoption of high-yield variety (HYV) seeds, chemical fertilizers, and modern irrigation techniques, agricultural productivity surged, particularly in states such as Punjab, Haryana, and Uttar Pradesh.<sup>11</sup> This period also saw an increase in government support in the form of Minimum Support Prices (MSP), agricultural credit, and extensive extension services.<sup>12</sup>

However, while the Green Revolution improved food security, it also led to socio-economic and environmental challenges, including regional disparities, groundwater depletion, and soil degradation.<sup>13</sup>

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<sup>8</sup> Blyn, G. (1966). *Agricultural Trends in India, 1891-1947: Output, Availability, and Productivity*. University of Pennsylvania Press.

<sup>9</sup> Guha, R. (1982). *The Unquiet Woods: Ecological Change and Peasant Resistance in the Himalayas*. Oxford University Press.

<sup>10</sup> Bandopadhyay, D. (1986). "Land Reforms and Rural Development: An Indian Perspective." *Economic and Political Weekly*, 21(25-26), A50-A62.

<sup>11</sup> Frankel, F.R. (1971). *India's Green Revolution: Economic Gains and Political Costs*. Princeton University Press.

<sup>12</sup> Swaminathan, M.S. (2006). "Agricultural Growth and Food Security." *The Hindu Survey of Indian Agriculture*.

<sup>13</sup> Singh, S. (2004). "Crisis in Punjab Agriculture." *Economic and Political Weekly*, 39(52), 5595-5604.

The high costs associated with modern inputs also contributed to farmer indebtedness, raising concerns about the sustainability of this model.

In the 1990s, economic liberalization brought new dimensions to agriculture, encouraging private sector participation and contract farming. The introduction of corporate farming in India gained momentum with policies promoting foreign direct investment (FDI) in the agricultural sector, along with the relaxation of restrictions on procurement and storage.<sup>14</sup> The 2020 farm laws, which sought to deregulate agricultural markets and facilitate direct transactions between farmers and corporations, sparked widespread protests and were ultimately repealed in 2021, reflecting the contentious nature of corporate involvement in agriculture.<sup>15</sup>

In conclusion, corporate farming in India has evolved through historical shifts in land ownership, technological advancements, and policy reforms. While it offers potential benefits such as improved efficiency and investment in rural infrastructure, it also raises concerns regarding land concentration, farmer livelihoods, and environmental sustainability.

## 8. Current State of Agriculture in India

Agriculture remains a crucial sector in India, contributing significantly to employment and the country's GDP. However, it faces several structural and economic challenges, primarily due to the predominance of small and marginal farmers.

### 8.1 Predominance of Small and Marginal Farmers

Small and marginal farmers, owning less than two hectares of land, constitute nearly 86% of India's total agricultural households.<sup>16</sup> These farmers often operate at a subsistence level, with limited access to advanced farming technologies, credit, and markets. The fragmentation of landholdings due to generational division has further reduced economies of scale, making it difficult for farmers to adopt modern agricultural practices.<sup>17</sup>

### 8.2 Challenges in Indian Agriculture

1. **Low Productivity:** The productivity of Indian agriculture remains low compared to global standards. While India is a leading producer of several crops, its yield per hectare is significantly lower than that of developed countries. This is attributed to factors such as outdated farming techniques, soil degradation, and inadequate irrigation facilities.<sup>18</sup>
2. **Poor Infrastructure:** Agricultural infrastructure, including storage facilities, roads, and irrigation systems, is insufficient in many parts of the country. A significant proportion of agricultural produce is lost due to post-harvest inefficiencies. The lack of rural connectivity also affects farmers' access to markets, reducing their profitability.<sup>19</sup>

<sup>14</sup> Rao, M. (2002). "Contract Farming in India: Prospects and Challenges." *Indian Journal of Agricultural Economics*, 57(3), 437-451.

<sup>15</sup> Narayanan, S. (2021). "Farm Laws and Farmer Protests: A Policy Perspective." *Economic and Political Weekly*, 56(4), 29-33.

<sup>16</sup> Government of India. "Agriculture Census 2015-16: Operational Holdings in India." Ministry of Agriculture & Farmers Welfare, 2018.

<sup>17</sup> Birthal, P. S. "Smallholder Farming in India: Challenges and Opportunities." *Economic and Political Weekly*, vol. 51, no. 26-27, 2016.

<sup>18</sup> Food and Agriculture Organization. "State of Food and Agriculture Report." FAO, 2020.

<sup>19</sup> Gulati, A., and Juneja, R. "Strengthening Agricultural Infrastructure in India." Indian Council for Research on International Economic Relations (ICRIER), 2019.

3. **Market Inefficiencies:** Farmers often struggle with price volatility and lack direct access to markets. The dominance of intermediaries in the supply chain leads to low farm-gate prices. Additionally, the Agricultural Produce Market Committee (APMC) system, though designed to regulate markets, often creates barriers for farmers by imposing unnecessary levies and restrictions.<sup>20</sup>
4. **Limited Access to Credit and Technology:** Financial constraints prevent small farmers from investing in high-quality seeds, fertilizers, and advanced machinery. While government schemes such as the Pradhan Mantri Kisan Samman Nidhi (PM-KISAN) and Kisan Credit Card (KCC) have been introduced to support farmers, accessibility remains a concern due to bureaucratic hurdles and lack of awareness.<sup>21</sup>

Addressing these challenges requires a multi-pronged approach, including policy reforms, investment in rural infrastructure, and support for small and marginal farmers through financial and technological interventions. Strengthening the agricultural value chain and ensuring fair market access can significantly enhance the sector's sustainability and productivity.

## 9. Corporate Farming: Concept and Models

Corporate farming is a modern agricultural practice where large agribusiness firms engage in extensive farming operations, often through ownership, leasing, or contract farming agreements. This practice contrasts with traditional smallholder farming, bringing efficiency, economies of scale, and modern technology into agriculture. However, it also raises concerns regarding land rights, environmental sustainability, and small farmers' welfare.<sup>22</sup>

### Concept of Corporate Farming

Corporate farming refers to agricultural production carried out by corporate entities rather than individual or family-owned farms. It can take several forms, including direct ownership of land by corporations, long-term leasing arrangements, and contract farming.<sup>23</sup>

### Characteristics of Corporate Farming

1. **Large-Scale Operations:** Corporate farms operate on extensive tracts of land, ensuring high levels of mechanization and productivity.<sup>24</sup>
2. **Technology-Driven Agriculture:** Use of genetically modified seeds, precision farming, and automated irrigation systems.<sup>25</sup>
3. **Vertical Integration:** Corporations control various stages of agricultural production, processing, and distribution.<sup>26</sup>
4. **Employment of Professional Management:** Unlike traditional farms, corporate farms are managed by agricultural professionals and business executives.<sup>27</sup>

<sup>20</sup> Chand, R. "Reforming Agricultural Markets in India: Issues and the Way Forward." NITI Aayog, 2021.

<sup>21</sup> Reserve Bank of India. "Agricultural Credit Review Report." RBI Bulletin, 2021.

<sup>22</sup> Pingali, Prabhu, and Rachel Stringer. "Agricultural Commercialization and Food Security: Long-Term Impacts." Food Policy, vol. 95, 2020, pp. 101-115

<sup>23</sup> Singh, Sukhpal. "Contract Farming for Agricultural Development: Review of Theory and Practice with Special Reference to India." Economic and Political Weekly, vol. 37, no. 52, 2002, pp. 5263-5268.

<sup>24</sup> Reardon, Thomas, et al. "Agrifood Industry Transformation and Small Farmers in Developing Countries." World Development, vol. 37, no. 11, 2009, pp. 1717-1727.

<sup>25</sup> Food and Agriculture Organization (FAO). The Role of Corporate Farming in Modern Agriculture. FAO, 2021.

<sup>26</sup> World Bank. Large-Scale Agriculture in Developing Countries: Balancing Growth and Equity. World Development Report, 2019.

<sup>27</sup> Patel, Raj. Stuffed and Starved: The Hidden Battle for the World Food System. Melville House, 2012.

### Contract Farming vs. Corporate Farming

While corporate farming involves direct land ownership and management by corporations, contract farming represents a more flexible model in which small and medium farmers produce crops under agreements with agribusiness firms.<sup>28</sup>

#### Contract Farming

Contract farming is an agreement between farmers and firms where the farmer agrees to produce a specific crop at a predetermined price. This system provides farmers with access to technology, inputs, and a guaranteed market. However, it also risks limiting farmers' independence and making them vulnerable to price fluctuations and contract disputes.<sup>29</sup>

#### Advantages of Contract Farming

1. **Assured Market:** Farmers receive a guaranteed price for their produce.<sup>30</sup>
2. **Access to Advanced Technology:** Companies provide high-quality seeds, fertilizers, and technical support.<sup>31</sup>
3. **Financial Support:** Some companies offer credit and input financing.<sup>32</sup>

#### Challenges of Contract Farming

1. **Exploitation Risks:** Farmers may receive unfair prices or face contract breaches.<sup>33</sup>
2. **Loss of Autonomy:** Farmers may lose decision-making power over their crops.<sup>34</sup>
3. **Legal Complexities:** Contract enforcement can be difficult, especially in developing nations.<sup>35</sup>

#### Corporate Farming

Corporate farming involves direct control over land and production by agribusiness firms. Unlike contract farming, where ownership remains with farmers, corporate farming involves full operational control by corporations.<sup>36</sup>

#### Advantages of Corporate Farming

1. **Increased Productivity:** Mechanization and large-scale operations improve efficiency.<sup>37</sup>
2. **Capital Investment:** Corporations bring significant financial resources for research, infrastructure, and technology.<sup>38</sup>
3. **Job Creation:** Large farms generate employment in rural areas.<sup>39</sup>

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<sup>28</sup> Clapp, Jennifer. *Food*, 2nd Edition. Polity, 2016.

<sup>29</sup> Shiva, Vandana. *Who Really Feeds the World? The Failures of Agribusiness and the Promise of Agroecology*. Zed Books, 2016.

<sup>30</sup> Pritchard, Bill, and David Burch. *Agri-Food Globalization in Perspective: International Restructuring in the Processing Tomato Industry*. Routledge, 2003.

<sup>31</sup> Desmarais, Annette Aurélie. *La Vía Campesina: Globalization and the Power of Peasants*. Fernwood, 2007.

<sup>32</sup> Guthman, Julie. *Agrarian Dreams: The Paradox of Organic Farming in California*. University of California Press, 2014.

<sup>33</sup> Bernstein, Henry. *Class Dynamics of Agrarian Change*. Kumarian Press, 2010.

<sup>34</sup> Oya, Carlos. "Contract Farming in Sub-Saharan Africa: A Survey of Approaches, Debates, and Issues." *Journal of Agrarian Change*, vol. 12, no. 1, 2012, pp. 1-33.

<sup>35</sup> Harvey, David. *A Brief History of Neoliberalism*. Oxford University Press, 2005.

<sup>36</sup> Weis, Tony. *The Global Food Economy: The Battle for the Future of Farming*. Zed Books, 2007.

<sup>37</sup> Hall, Ruth. "Land Grabbing in Southern Africa: The Many Faces of the Investor Rush." *Review of African Political Economy*, vol. 38, no. 128, 2011, pp. 193-214.

<sup>38</sup> Akram-Lodhi, A. Haroon, and Cristóbal Kay, editors. *Peasants and Globalization: Political Economy, Rural Transformation and the Agrarian Question*. Routledge, 2010.

<sup>39</sup> De Schutter, Olivier. "The Green Rush: The Global Race for Farmland and the Rights of Land Users." *Harvard International Law Journal*, vol. 52, no. 2, 2011, pp. 503-559.



### Challenges of Corporate Farming

1. **Displacement of Small Farmers:** Large-scale corporate farming may lead to land acquisition, affecting smallholders.<sup>40</sup>
2. **Environmental Concerns:** Intensive farming can deplete soil fertility and lead to excessive use of chemicals.<sup>41</sup>
3. **Market Monopolization:** Large agribusiness firms may dominate the market, marginalizing smaller players.<sup>42</sup>

Corporate farming and contract farming represent two models of modern agriculture with distinct advantages and challenges. While they promise increased efficiency and global food security, careful policy interventions are needed to protect smallholder farmers and ensure sustainable agricultural practices.<sup>43</sup>

### 10. Economic and Social Implications of Corporate Farming

Corporate farming, the practice of large agribusiness firms managing agricultural production, has gained prominence globally. While it brings economic efficiencies, its impact on rural livelihoods, employment, and traditional farming communities remains a subject of intense debate. This paper explores the implications of corporate farming in terms of employment, productivity, and potential farmer displacement.

#### 10.1 Impact on Employment and Rural Livelihoods

Corporate farming significantly alters rural employment patterns. On one hand, it creates formal job opportunities with stable wages, replacing traditional subsistence farming.<sup>44</sup> However, it also leads to job losses as mechanization reduces the need for labor. The shift from smallholder farming to corporate-led agriculture often displaces traditional farmers, forcing them into low-wage labor markets or urban migration.<sup>45</sup>

Small-scale farmers face economic vulnerabilities as they struggle to compete with large agribusinesses. Many end up working as contract laborers under precarious conditions.<sup>46</sup> This transformation leads to changes in rural social structures, weakening community cohesion and local self-sufficiency.

#### 10.2 Role of Corporate Farming in Enhancing Productivity and Efficiency

Proponents argue that corporate farming enhances productivity through advanced technology, efficient supply chains, and large-scale economies of scale.<sup>47</sup> Mechanized farming, precision agriculture, and improved irrigation techniques have significantly increased yields, ensuring food security.<sup>48</sup>

Furthermore, corporate farming integrates global markets, providing farmers with better access to technology and financial resources. This model reduces post-harvest losses and enhances supply chain

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<sup>40</sup> Borras, Saturnino M., et al. *Land Grabbing and Global Governance*. Routledge, 2013.

<sup>41</sup> Cotula, Lorenzo. *The Great African Land Grab? Agricultural Investments and the Global Food System*. Zed Books, 2013.

<sup>42</sup> McMichael, Philip. *Development and Social Change: A Global Perspective*. Sage Publications, 2020.

<sup>43</sup> Hall, Derek. *Land*. Polity Press, 2013.

<sup>44</sup> Deininger, Klaus. *Land Policies for Growth and Poverty Reduction*. World Bank, 2003.

<sup>45</sup> Shiva, Vandana. *The Violence of the Green Revolution: Third World Agriculture, Ecology, and Politics*. Zed Books, 1991.

<sup>46</sup> Patel, Raj. *Stuffed and Starved: The Hidden Battle for the World Food System*. Melville House, 2012.

<sup>47</sup> Pingali, Prabhu. "Green Revolution: Impacts, Limits, and the Path Ahead." *Proceedings of the National Academy of Sciences*, vol. 109, no. 31, 2012, pp. 12302-12308.

<sup>48</sup> FAO. *The Future of Food and Agriculture: Trends and Challenges*. Food and Agriculture Organization of the United Nations, 2017.

efficiency, leading to more stable food prices.<sup>49</sup> However, the benefits of such productivity gains are not equally distributed, as smallholders often struggle to access these advantages.

### 10.3 Risks of Farmer Exploitation and Displacement

Despite its economic benefits, corporate farming raises concerns over farmer exploitation and land displacement. Large agribusiness firms often acquire vast land areas, pushing small farmers off their ancestral lands.<sup>50</sup> This displacement leads to the loss of traditional farming knowledge and cultural heritage.

Contract farming, a common practice under corporate farming, frequently places small farmers in disadvantageous agreements. Farmers may become dependent on a single buyer, facing fluctuating prices and unfavorable contract terms.<sup>51</sup> Many agribusiness firms exert monopolistic control, limiting farmers' bargaining power and economic independence.

Additionally, corporate farming prioritizes cash crops over staple food production, impacting local food availability and nutritional security.<sup>52</sup> The environmental costs, such as soil degradation, excessive pesticide use, and biodiversity loss, also add to the long-term risks associated with large-scale agribusiness operations.<sup>53</sup>

Corporate farming presents a dual-edged impact on economies and societies. While it enhances agricultural productivity and efficiency, it also risks marginalizing traditional farmers, disrupting rural employment, and leading to social inequalities. Policymakers must ensure regulatory measures that balance corporate efficiency with smallholder protection, promoting inclusive growth and sustainable agricultural practices.

## 11. Policy Framework and Government Initiatives for Corporate Farming

### 11.1 Introduction

Corporate farming refers to large-scale agricultural operations owned and managed by corporate entities rather than individual farmers. This practice has been increasingly adopted worldwide due to its potential to enhance agricultural productivity, improve supply chain efficiency, and integrate modern technology into farming. However, corporate farming also raises concerns regarding land ownership, farmer displacement, and environmental sustainability. This paper explores the policy framework and government initiatives related to corporate farming in India, including an analysis of existing laws and policies and case studies of corporate farming initiatives.

### 11.2. Analysis of Existing Laws and Policies Concerning Corporate Farming

#### 11.2.1 The Agricultural Land Ceiling Act

The Agricultural Land Ceiling Act was introduced to prevent the concentration of land in the hands of a few entities and promote equitable land distribution. However, in many states, amendments have been made to ease land acquisition by corporate entities for agricultural purposes.<sup>54</sup>

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<sup>49</sup> Clapp, Jennifer. Food. Polity Press, 2012.

<sup>50</sup> Borras, Saturnino M., et al. Land Grabbing and Global Governance. Routledge, 2013.

<sup>51</sup> Oya, Carlos. "Contract Farming in Sub-Saharan Africa: A Survey of Approaches, Debates and Issues." *Journal of Agrarian Change*, vol. 12, no. 1, 2012, pp. 1-33.

<sup>52</sup> Weis, Tony. The Global Food Economy: The Battle for the Future of Farming. Zed Books, 2007.

<sup>53</sup> Tilman, David, et al. "Agricultural Sustainability and Intensive Production Practices." *Nature*, vol. 418, no. 6898, 2002, pp. 671-677.

<sup>54</sup> Agricultural Land Ceiling Act, various state amendments.



### 11.2.2 Contract Farming Acts

Several states in India have enacted laws to regulate contract farming, wherein corporate entities enter into agreements with farmers for the production and supply of agricultural produce. The **Model Contract Farming Act, 2018**, introduced by the central government, aims to provide a framework for fair agreements, dispute resolution, and better price realization for farmers.<sup>55</sup>

### 11.2.3 Foreign Direct Investment (FDI) in Agriculture

India allows **100% FDI** in various sectors of agriculture, including horticulture and food processing, but restricts direct corporate ownership of farmland. The liberalization of FDI policies has encouraged agribusiness companies to engage in contract farming and agritech solutions.<sup>56</sup>

### 11.2.4 Agricultural Produce Market Committee (APMC) Act Reforms

The APMC reforms, particularly through the **Farmers' Produce Trade and Commerce (Promotion and Facilitation) Act, of 2020**, sought to liberalize agricultural trade by allowing farmers to sell their produce outside the APMC mandis, thereby benefiting corporate buyers and reducing intermediation costs.<sup>57</sup>

### 11.2.5 Environmental and Sustainability Regulations

Corporate farming operations are subject to environmental regulations such as the **Environmental Protection Act, of 1986**, and state-level land-use policies to prevent overexploitation of natural resources.<sup>58</sup>

## 12. Case Studies on Corporate Farming in India

Corporate farming in India has been a topic of debate, especially after the introduction and subsequent repeal of the farm laws. Below are ten case studies that highlight different aspects of corporate farming in India.

### 1. PepsiCo India – Contract Farming in Punjab

PepsiCo entered India in 1989 and initiated contract farming in Punjab for tomato cultivation. The company provided seeds, technical support, and assured buyback agreements, which improved yields and farmer incomes. However, concerns arose over monopolistic practices and dependency on corporate buyers.<sup>59</sup>

### 2. ITC e-Choupal – Digital Integration of Farmers

ITC introduced the e-Choupal initiative in 2000 to provide real-time agricultural information to farmers. It eliminated middlemen and improved market access, leading to better price realization for small farmers. However, its reach was limited to select states like Madhya Pradesh, Maharashtra, and Karnataka.<sup>60</sup>

### 3. Bharti Walmart – Direct Farm Program

Bharti Walmart launched its Direct Farm Program in Punjab to procure fresh produce directly from farmers. It provided them with agricultural inputs and training to enhance productivity. While it improved efficiency, concerns about corporate control over small farmers persisted.<sup>61</sup>

<sup>55</sup> Ministry of Agriculture & Farmers' Welfare, "Model Contract Farming Act, 2018."

<sup>56</sup> Department for Promotion of Industry and Internal Trade (DPIIT), "FDI Policy in Agriculture, 2022."

<sup>57</sup> The Farmers' Produce Trade and Commerce (Promotion and Facilitation) Act, 2020.

<sup>58</sup> Ministry of Environment, Forest and Climate Change, "Environmental Protection Act, 1986."

<sup>59</sup> Gulati, Ashok, et al. Contract Farming in India: Impact on Small and Marginal Farmers. International Food Policy Research Institute, 2008.

<sup>60</sup> Singh, Sukhpal. E-Choupal: Hope or Hype? Economic and Political Weekly, vol. 41, no. 12, 2006, pp. 1010-1012.

<sup>61</sup> Chand, Ramesh. Farm–Retail Price Spread under Emerging Agricultural Marketing Scenarios. National Centre for Agricultural Economics and Policy Research, 2012.

#### 4. Reliance Fresh – Agricultural Procurement in Andhra Pradesh

Reliance Fresh established a supply chain for fresh vegetables and fruits, working with farmers in Andhra Pradesh. The company introduced modern storage facilities and supply chain mechanisms, reducing post-harvest losses. Farmers benefitted from assured prices, but contractual disputes were reported.<sup>62</sup>

#### 5. FieldFresh Foods – Indo-UK Joint Venture in Agriculture

FieldFresh Foods, a joint venture between Bharti Enterprises and Del Monte, engaged in contract farming for baby corn and other vegetables. The initiative improved agricultural practices and export potential, but smallholder farmers expressed concerns over power imbalances in negotiations.<sup>63</sup>

#### 6. Mahindra ShubhLabh – Fruits and Vegetable Supply Chain

Mahindra ShubhLabh, a subsidiary of Mahindra & Mahindra, partnered with farmers in Maharashtra and Karnataka for high-value fruits like grapes. The initiative aimed at export-oriented farming but faced criticism over pricing and dependency on corporate decision-making.<sup>64</sup>

#### 7. Amul's Dairy Farming Model

Amul, India's largest dairy cooperative, implemented a corporate farming approach by integrating village-level dairy producers into a structured supply chain. While it led to higher incomes for farmers, concerns over milk pricing and sustainability have emerged.<sup>65</sup>

#### 8. McCain India – Potato Contract Farming in Gujarat

McCain India works with potato farmers in Gujarat to supply raw materials for frozen food products. The company introduced disease-resistant varieties and modern farming techniques, leading to better yields. However, some farmers faced difficulties due to strict quality standards.<sup>66</sup>

#### 9. Patanjali's Contract Farming for Herbal Products

Patanjali has engaged in contract farming of medicinal and herbal plants in Uttarakhand and Madhya Pradesh. It offers training and a buyback guarantee, yet farmers have raised concerns about pricing and contract enforcement.<sup>67</sup>

#### 10. Godrej Agrovet – Integrated Livestock and Poultry Farming

Godrej Agrovet has implemented contract poultry and animal husbandry farming, providing farmers with feed, veterinary support, and assured procurement. While this model reduced farmer risk, it also increased their reliance on the company's inputs.<sup>68</sup>

Corporate farming in India presents a mixed picture of opportunities and challenges. While policies and initiatives have been introduced to encourage private sector participation in agriculture, concerns regarding farmer welfare, land rights, and sustainability remain. Effective policy implementation, transparent contract agreements, and sustainable practices will be crucial for balancing corporate farming's economic benefits with social and environmental considerations.

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<sup>62</sup> Joshi, P. K., et al. Agricultural Diversification in South Asia: Patterns, Determinants, and Policy Implications. International Food Policy Research Institute, 2007.

<sup>63</sup> Swain, Manas Ranjan, and Prakash Nedunchezhiyan. Corporate Farming: A Way Forward for Indian Agriculture? Indian Journal of Agricultural Economics, vol. 65, no. 3, 2010, pp. 448-460.

<sup>64</sup> Mahajan, Vijay, et al. Mahindra and Mahindra in Agri-Business: Future Growth Strategy. Harvard Business School Case Study, 2015.

<sup>65</sup> Kurien, Verghese. I Too Had a Dream. Roli Books, 2012.

<sup>66</sup> Basu, Kaushik. Contract Farming and Agricultural Productivity in India. Oxford University Press, 2014.

<sup>67</sup> Sharma, Ramesh. Ayurveda and Economic Growth: The Role of Patanjali in Indian Agriculture. Economic and Political Weekly, vol. 50, no. 15, 2015, pp. 40-45.

<sup>68</sup> Godrej Agrovet. Annual Report 2023-24. Godrej Industries, 2024

### 13. Case Studies on Corporate Farming Worldwide

#### 1. Monsanto (USA) and Genetically Modified Crops

Monsanto, now a part of Bayer, has played a significant role in corporate farming through genetically modified (GM) crops like Roundup Ready soybeans and Bt cotton. While these innovations increased yields and reduced pesticide use, they also led to concerns over seed monopolization and farmer dependence on patented seeds.<sup>69</sup>

#### 2. Cargill (Brazil) and Soybean Farming in the Amazon

Cargill, one of the world's largest agribusiness corporations, has invested heavily in soybean production in Brazil. While boosting the Brazilian economy, its operations have also been linked to deforestation and biodiversity loss in the Amazon rainforest.<sup>70</sup>

#### 3. JBS (Brazil) and Livestock Farming

JBS, the world's largest meat processing company, has significantly influenced cattle ranching in Brazil. Corporate livestock farming has led to economic growth but has also contributed to deforestation, greenhouse gas emissions, and land conflicts with indigenous communities.<sup>71</sup>

#### 4. Olam International (Africa) and Large-Scale Rice Farming

Olam International, headquartered in Singapore, has invested in large-scale rice farming in Nigeria and Gabon. While boosting food security and exports, concerns over water use, land grabs, and displacement of small-scale farmers persist.<sup>72</sup>

#### 5. Wilmar International (Indonesia) and Palm Oil Plantations

Wilmar International is one of the largest palm oil producers, controlling vast plantations in Indonesia and Malaysia. Despite economic benefits, deforestation, biodiversity loss, and labor exploitation remain key issues.<sup>73</sup>

#### 6. Nestlé (India) and Contract Farming of Milk

Nestlé's dairy farming initiatives in India involve contract farming with small-scale farmers. While ensuring a stable market for dairy farmers, concerns over pricing control and dependency have been raised.<sup>74</sup>

#### 7. Tata Coffee (India) and Large-Scale Coffee Plantations

Tata Coffee, a subsidiary of Tata Consumer Products, operates extensive coffee plantations in South India. While contributing to the economy, its impact on biodiversity and concerns over labor conditions are debated.<sup>75</sup>

#### 8. Saudi Agricultural and Livestock Investment Company (Ethiopia) and Land Grabbing

The Saudi Agricultural and Livestock Investment Company (SALIC) has acquired large tracts of land in Ethiopia for food production. Critics argue that such land acquisitions displace local farmers and reduce

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<sup>69</sup> Herring, Ronald J. *Seeds, Science, and Struggle: The Global Politics of Transgenic Crops*. MIT Press, 2007.

<sup>70</sup> Nepstad, Daniel C., et al. "The Amazon Soy Moratorium and Declining Deforestation." *Science*, vol. 347, no. 6220, 2014, pp. 377-378.

<sup>71</sup> Rajão, Raoni, et al. "The Rotten Apples of Brazil's Agribusiness." *Science*, vol. 369, no. 6501, 2020, pp. 246-248.

<sup>72</sup> Cotula, Lorenzo. *The Great African Land Grab? Agricultural Investments and the Global Food System*. Zed Books, 2013.

<sup>73</sup> Carlson, Kimberly M., et al. "Effect of Oil Palm Sustainability Certification on Deforestation and Fire in Indonesia." *Proceedings of the National Academy of Sciences*, vol. 115, no. 1, 2018, pp. 121-126.

<sup>74</sup> Singh, Sukhpal. "Contract Farming in India: Impact on Small Farmers." *Economic and Political Weekly*, vol. 37, no. 52, 2002, pp. 4073-4081.

<sup>75</sup> Petchers, S., and Harris, J. "The Coffee Crisis: Fair Trade as a Market-Based Social Change Mechanism." *Journal of Business Ethics*, vol. 74, no. 1, 2007, pp. 85-99.

food security.<sup>76</sup>

### **9. Ukraine's Agribusiness Expansion with Kernel Holding**

Kernel Holding, a leading Ukrainian agribusiness firm, controls extensive sunflower oil and grain exports. While boosting Ukraine's agricultural economy, concerns over foreign land investments and environmental degradation persist.<sup>77</sup>

### **10. Chinese Agribusiness Investments in Africa (Zambia and Mozambique)**

Chinese firms have invested in large-scale farming in Zambia and Mozambique, particularly in maize and rice. While increasing yields and employment, these investments raise concerns over land rights, local displacement, and long-term sustainability.<sup>78</sup>

## **14. Challenges and Criticism of Corporate Farming**

### **14.1 Concerns About Land Acquisition and Farmer Rights**

Corporate farming has sparked significant debates regarding land acquisition and the rights of small-scale farmers. Large agribusinesses often acquire extensive tracts of farmland, leading to the displacement of small and marginal farmers who lack the resources to compete.<sup>79</sup> Many cases have been reported where land is acquired under dubious legal frameworks or with inadequate compensation, leaving farmers without a livelihood.<sup>80</sup> Furthermore, corporate contracts with farmers may impose stringent terms, reducing their autonomy in decision-making regarding crop choices and farming practices.<sup>81</sup>

In developing countries, government policies sometimes favor corporate farming over traditional smallholder agriculture, leading to an unequal distribution of resources.<sup>82</sup> The power imbalance between large agribusinesses and small farmers can result in exploitative agreements, where farmers bear the risks of production while corporations secure profits. This not only undermines food sovereignty but also exacerbates rural poverty and unemployment.<sup>83</sup>

### **14.2 Monopolization and Pricing Concerns of Corporate Farming**

Corporate farming often leads to monopolization in the agricultural sector, as large agribusiness firms consolidate control over land, resources, and supply chains. This consolidation reduces market competition, giving these corporations greater influence over pricing and production decisions.<sup>84</sup> As a result, smaller farms struggle to remain viable, often being forced to sell their land or enter into restrictive contracts.<sup>85</sup>

Additionally, monopolization can lead to price manipulation, where large agribusinesses control both input costs (such as seeds and fertilizers) and the price at which agricultural products are sold. This creates a

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<sup>76</sup> Zoomers, Annelies. "Globalisation and the Foreignisation of Space: Seven Processes Driving the Current Global Land Grab." *Journal of Peasant Studies*, vol. 37, no. 2, 2010, pp. 429-447.

<sup>77</sup> Balmann, Alfons, et al. "Agricultural Production Structures in Ukraine and Their Development Perspectives." *European Review of Agricultural Economics*, vol. 38, no. 4, 2011, pp. 551-576.

<sup>78</sup> Brautigam, Deborah. *Will Africa Feed China?* Oxford University Press, 2015.

<sup>79</sup> Patel, Raj. *Stuffed and Starved: The Hidden Battle for the World Food System*. Melville House, 2008.

<sup>80</sup> Shiva, Vandana. *Who Really Feeds the World? The Failures of Agribusiness and the Promise of Agroecology*. Zed Books, 2016.

<sup>81</sup> Clapp, Jennifer. *Food. Polity Press*, 2012.

<sup>82</sup> McMichael, Philip. *Development and Social Change: A Global Perspective*. SAGE Publications, 2016.

<sup>83</sup> Ploeg, Jan Douwe van der. *The New Peasantries: Struggles for Autonomy and Sustainability in an Era of Empire and Globalization*. Routledge, 2008.

<sup>84</sup> Howard, Philip H. *Concentration and Power in the Food System: Who Controls What We Eat?* Bloomsbury Academic, 2016.

<sup>85</sup> Weis, Tony. *The Global Food Economy: The Battle for the Future of Farming*. Zed Books, 2007.

dependency cycle where farmers have limited bargaining power and consumers face higher food prices.[8] In countries where corporate farming is dominant, smallholder farmers may become contract growers, receiving lower-than-market prices for their produce while bearing the risks associated with climate change and fluctuating global demand.<sup>86</sup>

### 14.3 Ethical and Environmental Concerns About Corporate Farming

The rise of corporate farming has raised several ethical and environmental concerns. One of the most pressing issues is the intensive use of chemical fertilizers, pesticides, and genetically modified organisms (GMOs), which can lead to soil degradation, water pollution, and loss of biodiversity.<sup>87</sup> The prioritization of high-yield crops over sustainable farming practices often results in long-term ecological damage, affecting both local ecosystems and global climate patterns.<sup>88</sup>

Furthermore, corporate farming is criticized for contributing to labor exploitation. Many corporate farms rely on low-wage workers, often in poor working conditions, without adequate labor rights protections.<sup>89</sup> Seasonal and migrant farmworkers are particularly vulnerable to exploitation, as they may lack legal protections and face substandard living conditions.<sup>90</sup>

Another ethical concern is the shift away from traditional and culturally significant farming practices. Corporate farming tends to favor standardized production methods that prioritize profit over food diversity and indigenous agricultural knowledge. This can lead to the erosion of local food cultures and traditional farming practices that have been developed over generations to adapt to specific environmental conditions.<sup>91</sup>

While corporate farming has increased efficiency and production in agriculture, its challenges and criticisms cannot be ignored. Issues related to land acquisition, monopolization, ethical labor practices, and environmental sustainability need urgent policy interventions. Governments must ensure that corporate farming operates within ethical and sustainable frameworks that protect both farmers and the environment.

## 15. Some of the suggested policy measures that can be implemented to balance corporate interests and farmer welfare

### Regulatory and Legal Measures

1. **Fair Contract Farming Laws** – Establish legal frameworks ensuring fair pricing, transparent contracts, and protection against exploitative agreements between farmers and corporations.
2. **Land Lease Protection Policies** – Introduce laws that prevent land grabs and ensure that farmers retain long-term rights to their leased lands.
3. **Profit-Sharing Mechanisms** – Mandate a percentage of corporate profits from agricultural activities to be shared with local farmers and rural communities.
4. **Sustainability and Environmental Regulations** – Enforce sustainable farming practices, water conservation measures, and limits on chemical usage to protect small farmers from environmental degradation.

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<sup>86</sup> Burch, David, and Geoffrey Lawrence. *Supermarkets and Agri-Food Supply Chains: Transformations in the Production and Consumption of Foods*. Edward Elgar Publishing, 2007.

<sup>87</sup> Altieri, Miguel A. *Agroecology: The Science of Sustainable Agriculture*. CRC Press, 1995.

<sup>88</sup> Foley, Jonathan A., et al. "Solutions for a Cultivated Planet." *Nature*, vol. 478, no. 7369, 2011, pp. 337-342.

<sup>89</sup> Gray, Margaret. *Labor and the Locavore: The Making of a Comprehensive Food Ethic*. University of California Press, 2013.

<sup>90</sup> Holmes, Seth M. *Fresh Fruit, Broken Bodies: Migrant Farmworkers in the United States*. University of California Press, 2013.

<sup>91</sup> Patel, R. *The Value of Nothing: How to Reshape Market Society and Redefine Democracy*. Picador, 2009.



### Financial Support & Incentives

5. **Subsidized Credit & Insurance Schemes** – Provide government-backed credit and insurance for farmers participating in corporate farming to mitigate financial risks.
6. **Price Stability Mechanisms** – Implement minimum support price (MSP) or floor price policies to prevent corporations from underpaying farmers.
7. **Corporate Tax Incentives for Fair Practices** – Offer tax benefits to agribusinesses that invest in farmer welfare, fair wages, and rural development initiatives.
8. **Farmer Cooperatives & Equity Participation** – Enable farmers to hold shares in corporate agribusinesses, allowing them to benefit from company profits.

### Market & Trade Policies

9. **Mandatory Local Sourcing Quotas** – Require corporations to procure a minimum percentage of raw materials from local farmers rather than relying on large-scale industrial farms.
10. **Export Quotas for Essential Commodities** – Prevent excessive corporate-driven exports that may cause domestic price hikes, ensuring food security for local populations.
11. **Inclusive Supply Chain Development** – Develop policies encouraging corporations to integrate smallholder farmers into their supply chains while ensuring fair trade practices.

### Technology & Capacity Building

12. **Public-Private R&D Partnerships** – Promote joint research initiatives between corporations, universities, and governments to develop climate-resilient and cost-effective agricultural techniques.
13. **Smart Agriculture Technology Access Programs** – Provide subsidies or free access to precision farming tools, weather forecasting, and digital marketplaces to small farmers.
14. **Skills Development & Training Centers** – Establish government-sponsored training hubs where farmers can learn modern agricultural techniques and business skills.

### Social & Welfare Initiatives

15. **Corporate Social Responsibility (CSR) Mandates** – Make it mandatory for agribusinesses to invest in rural infrastructure, healthcare, and education for farming communities as part of their CSR obligations.

### Conclusion

Corporate farming has the potential to significantly reshape Indian agriculture by introducing advanced technologies, improving productivity, and strengthening supply chain linkages. However, its implementation must be carefully managed to ensure that the interests of small and marginal farmers are protected. While corporate farming can bring efficiency, large-scale investment, and employment opportunities, it must operate within a framework that prioritizes social equity, farmer welfare, and environmental sustainability.

A hybrid model that integrates corporate farming with smallholder participation, cooperative models, and contract farming can help achieve a balanced approach. Government policies should focus on ensuring fair pricing, land ownership rights, and transparent contract terms to prevent exploitation. Additionally, regulatory frameworks must address concerns about monopolization, land acquisition, and ecological sustainability.

The future of Indian agriculture lies in a well-calibrated mix of traditional farming and corporate-driven agricultural reforms. By fostering public-private partnerships, strengthening farmer cooperatives, and implementing progressive policies, India can create an inclusive and resilient agricultural ecosystem.

Sustainable corporate farming, if aligned with ethical considerations and smallholder empowerment, has the potential to drive agricultural growth, enhance food security, and contribute significantly to rural development. Thus, a thoughtful and inclusive approach to corporate farming can shape the future of Indian agriculture for the better.

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