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Q4

## **Elaborate the scope and significance of supply chain management of agricultural commodities in India.**

UPSC Civil Services Mains 2025 · GS III · 10 marks · Indian Economy

Indian Economy and issues relating to planning, mobilization of resources, growth, development and employment.

### **Core demand of the question**

- Define agricultural supply-chain management from farm to fork
- **Show scope:** storage, logistics, processing, retail, information
- Show significance for farmer price, food inflation, waste, exports

### **Revision summary**

Supply-chain management covers grading, storage, transport, processing, retail and information from farm to fork.

India still loses a large share of fruit and vegetable value to weak cold chains.

A working chain raises farm-gate share, cuts waste, and can ease food inflation.

It is also the backbone of agri-exports and of jobs in packing and mills.

Without it a bumper crop becomes a price crash.

### **Introduction**

A crop is not income until it **reaches a mouth or a mill** at a price that leaves something for the grower. **Supply chain management** of farm goods is the craft of that journey: harvest, grade, store, move, process, sell - with information running the other way. In India the chain is still leaky. That leak is both a farmer's wound and a consumer's inflation.

### **Body**

#### **Scope**

The chain starts with **seed and advice**, but the question's usual core is **post-harvest**. **Storage** (warehouse, cold store, silo) decides whether a tomato is a vegetable or waste. **Transport** - village road, rail, reefer truck - decides whether a grape still looks like a grape in Mumbai. **Processing** turns cane to sugar and milk to powder. **Retail and e-commerce** set the last price. **Standards and traceability** decide export. **Information** (e-NAM, boards, WhatsApp prices) is the nervous system. FPOs and aggregators sit in the middle so a smallholder is not alone against a mandi cartel.

India's cold-chain capacity has grown but remains **short and uneven**. Food-loss studies still put **high waste** on fruits and vegetables. Cereals now have more silo and FCI cover, yet quality and local leakages remain.

### **Significance**

For the **farmer**, a managed chain can cut the **gap between farm-gate and retail**. For the **consumer**, it can blunt seasonal **food inflation** that still dominates the poor's CPI basket. For the **country**, it supports **exports** (marine, spices, rice, buffalo meat, grapes) and **jobs** in packing and processing. For **nutrition**, a cold chain can carry milk and vegetables, not only wheat.

Without management, a bumper harvest is a **price crash**, which is the cruel Indian joke. Operation Greens, mega food parks, and PMKSY logistics are attempts to write a less cruel joke. Significance is therefore not a corporate buzzword. It is **whether a surplus feeds people or rot**.

### Flow diagram

Farm -> Store grade  
Store grade -> Transport  
Transport -> Process  
Process -> Retail export  
Information e-NAM -> Farm  
Information e-NAM -> Retail export

### Conclusion

- **Agricultural supply-chain management is the path from field to plate:** store, move, process, inform. Its scope is the whole post-harvest system. Its significance is farmer income, less waste, steadier food prices and export quality.

### Facts & figures

#### e-NAM

The electronic national agriculture market, meant to share price information and, in theory, buyers across mandis.

#### Cold chain gap

India has expanded cold stores, but capacity is still thin relative to horticulture output and is uneven by State.

#### Food inflation weight

Food still carries a large weight in the CPI of the poor, so a broken vegetable chain is a macro problem.