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# India's Fertilizer Crisis: 70% Import Dependence and the Reform Imperative

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**ECONOMY****ENVIRONMENT****SOCIAL ISSUES**

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# India's Fertilizer Crisis: 70% Import Dependence and the Reform Imperative

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## WHY IN NEWS

Agricultural economist **Ashok Gulati** (ICRIER) called for urgent fertilizer policy reform, highlighting that India's **~70% fertilizer import dependence** and ₹1.95–2 lakh crore annual subsidy burden represent a structural vulnerability in India's food security system. The 2026 West Asia conflict (Iran-Israel tensions disrupting Gulf supply chains) caused global urea prices to spike **65% in 40 days** — exposing how fragile India's farm input security truly is.

## INDIA'S FERTILIZER SECTOR — THE BASICS

### India's Fertilizer Consumption

India is the **world's second-largest consumer of fertilizers** after China:

METRIC	FIGURE
Annual fertilizer consumption	<b>~40 million tonnes</b>
Urea consumption	~35 million tonnes (largest single fertilizer)
DAP (Di-ammonium Phosphate) consumption	~11–12 million tonnes
MOP (Muriate of Potash) consumption	~4–5 million tonnes
Domestic urea production capacity	~26 million tonnes
Domestic DAP + MOP production	Very limited — heavily imported
Overall import dependence	<b>~70%</b>

### India's Fertilizer Subsidy Architecture

India operates a **dual subsidy system**:

- Urea subsidy (MRP-fixed):** Urea retail price is fixed by the government (currently ~₹5,360/bag of 45 kg — among the lowest in the world). The difference between cost-of-production/import and MRP is paid by the government directly to manufacturers/importers.

- 2 **NBS (Nutrient-Based Subsidy):** For P&K (phosphorus and potassium) fertilizers — fixed subsidy per kg of nutrient. Retail prices are market-determined (with NBS reducing the gap).

YEAR	FERTILIZER SUBSIDY (₹ CRORE)
2020–21	~1,27,922 crore
2021–22	~1,53,658 crore (Russia-Ukraine spike)
2022–23	~2,25,220 crore (peak year)
2024–25	~1,95,000 crore
2025–26 (estimated)	~₹2 lakh crore

## THE IMPORT DEPENDENCE PROBLEM

### Why India Imports So Much

FERTILIZER	IMPORT SHARE	REASON
<b>Urea</b>	~25–30%	Domestic capacity insufficient; high energy cost for gas-based production
<b>DAP</b>	~60–65%	India lacks phosphate rock reserves; imports from Morocco, Jordan, Saudi Arabia
<b>MOP (Potash)</b>	~100%**	India has zero domestic potash reserves
<b>Ammonia</b>	~40%	Gas feedstock dependency
<b>Sulphur</b>	~100%	No domestic production

### Key supplier countries for India:

- Urea: **Saudi Arabia, Qatar, UAE, Oman, China, Russia**
- DAP: **Saudi Arabia, Morocco, China**
- Potash: **Canada, Belarus, Russia**
- All heavily concentrated in geopolitically sensitive regions

### The 2026 Supply Shock

The Iran-Israel conflict in West Asia (March 2026):

- Disrupted Gulf shipping lanes; insurance premiums spiked
- **Global urea prices rose 65% in 40 days**
- India's existing buffer stocks cushioned immediate impact — but exposed long-term vulnerability
- Fertilizer prices feed directly into farm input costs → food prices → inflation

## NUTRIENT USE EFFICIENCY — THE WASTE PROBLEM

Beyond import dependence, India faces a **Nutrient Use Efficiency (NUE) crisis**:

FERTILIZER	NUE IN INDIA	WORLD AVERAGE	LOSS MODE
<b>Urea (nitrogen)</b>	<b>35–40%</b>	50–60%	Volatilisation (ammonia), leaching, denitrification
<b>DAP (phosphorus)</b>	~20–25%	30–40%	Soil fixation, runoff
<b>Potash (K)</b>	~50–60%	60–70%	Leaching in sandy soils

**What does 35–40% NUE for urea mean?** India uses ~35 million tonnes of urea annually. Only ~**12–14 million tonnes** actually benefits crops — the rest:

- **Volatilises as ammonia** (air pollution; acidification)
- **Leaches into groundwater** (nitrate contamination of drinking water)
- **Runs off into water bodies** (eutrophication; algal blooms)

At ₹5,360/bag at retail price (and actual cost ~₹17,000–20,000/bag), the waste of 60–65% urea represents **₹1+ lakh crore in wasted subsidy resources annually**.

## DISTORTIONS CREATED BY THE CURRENT POLICY

### 1. Urea Overuse

Because urea is priced at ~30% of its market cost, farmers over-apply it:

- Distorts NPK ratio: India's actual use ratio is ~8:3:1 (nitrogen: phosphorus: potash); ideal is 4:2:1
- Excess nitrogen damages soil health, reduces yield over time
- Green Revolution-era yield gains are stagnating partly due to soil degradation from fertilizer misuse

## 2. *Neem-Coating Partial Fix*

India mandated **100% neem-coating of urea** (2015) to slow nitrogen release and reduce diversion to industry (urea was being illegally used in chemicals, melamine manufacturing). Neem-coating improved NUE marginally but didn't fix the fundamental price incentive problem.

## 3. *Industrial Diversion*

Cheap urea has historically been diverted for industrial uses (melamine, animal feed adulteration). Neem-coating + PAHAL (direct subsidy to manufacturers) reduced diversion.

## 4. *Import Bill Vulnerability*

India's annual fertilizer import bill: **\$8–10 billion** (normal year); can spike to \$14+ billion during price shocks. Paid in dollars — adds to current account deficit and currency pressure.

# ASHOK GULATI'S REFORM PROPOSALS

**Ashok Gulati** (Distinguished Fellow, ICRIER — Indian Council for Research on International Economic Relations) has proposed a two-part reform:

## 1. *Direct Benefit Transfer (DBT) for Fertilizers*

- Replace the current producer/importer subsidy with **direct cash transfer to verified farmers** (linked to land records + Aadhaar)
- Farmer buys fertilizer at market price; government transfers subsidy directly to their account
- Advantage: Eliminates leakage, industrial diversion; government pays only for actual farming use
- Precedent: **PAHAL scheme** (LPG DBT) transferred ₹97,000+ crore, saved ~₹50,000 crore in leakages

## 2. *Crop-Neutral Quantitative Rationing*

- Currently, urea subsidies benefit paddy + wheat farmers disproportionately (they are intensive urea users)
- Proposed: Subsidy per acre (regardless of crop) — incentivises shift to less nitrogen-intensive crops (pulses, oilseeds)
- Helps address India's edible oil and pulse import dependence simultaneously

## *Challenges to Reform*

- **Political sensitivity:** Fertilizer prices are a third rail in Indian politics; any price increase triggers farmer protests
- **Database gaps:** Land records not fully digitised in all states; multiple landholdings create targeting challenges
- **MSP linkage:** Farmers argue if fertilizer prices rise, MSP must rise — creating a fiscal spiral

## INDIA'S FERTILIZER SELF-SUFFICIENCY INITIATIVES

INITIATIVE	DETAILS
<b>Nano Urea</b> (IFFCO)	Liquid urea: 500 ml bottle replaces one 45 kg bag; NUE claim: 85–90%; launched 2021; scale-up ongoing
<b>Nano DAP</b> (IFFCO)	Liquid DAP substitute; launched 2023
<b>GOBARdhan</b>	Organic fertilizer from cattle waste → biogas + slurry (organic manure)
<b>Paramparagat Krishi Vikas Yojana</b> (PKVY)	Organic farming cluster development
<b>Soil Health Card</b>	Soil testing + customised nutrient recommendations → reduce over-fertilization
<b>PM PRANAM</b>	States that reduce fertilizer consumption get rebate from subsidy savings
<b>New fertilizer plants</b>	Revival of Gorakhpur, Barauni, Sindri, Talcher urea plants (closed since 1990s–2000s)

## UPSC RELEVANCE

PAPER	ANGLE
GS3 — Economy/Agriculture	Fertilizer subsidy; NUE; DBT for fertilizers; Nano Urea; import dependence
GS3 — Environment	Nutrient pollution; groundwater nitrate contamination; soil degradation; eutrophication
GS2 — Governance	PAHAL scheme; DBT in agriculture; PM PRANAM; Soil Health Card
GS3 — Food Security	Fertilizer-food nexus; supply chain vulnerability; MSP distortions
Prelims	Gulati/ICRIER; India imports ~70%; Urea NUE 35–40%; Nano Urea (IFFCO 2021); PM PRANAM; GOBARdhan
Interview	“India’s fertilizer subsidy saves farmers today but makes agriculture fragile tomorrow — how would you redesign it?”
Mains Keywords	Nutrient Use Efficiency, DBT for fertilizers, Nano Urea, PM PRANAM, GOBARdhan, IFFCO, fertilizer import dependence, Ashok Gulati, ICRIER

Import dependence: ~70% | Annual consumption: ~40 million tonnes | Annual subsidy: ~₹1.95–2 lakh crore | Urea NUE: 35–40% | Urea global price spike: +65% in 40 days (2026 West Asia conflict) | Expert: Ashok Gulati, ICRIER | Reform: DBT for fertilizers + crop-neutral quantitative rationing | Nano Urea (IFFCO, 2021): 500 ml = 1 bag of urea | PM PRANAM: states incentivised to reduce fertilizer use | Neem-coating (mandated 2015): slows release, reduces diversion | MOP: 100% imported (India has zero potash reserves) | GS3: Agriculture, Economy, Environment

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