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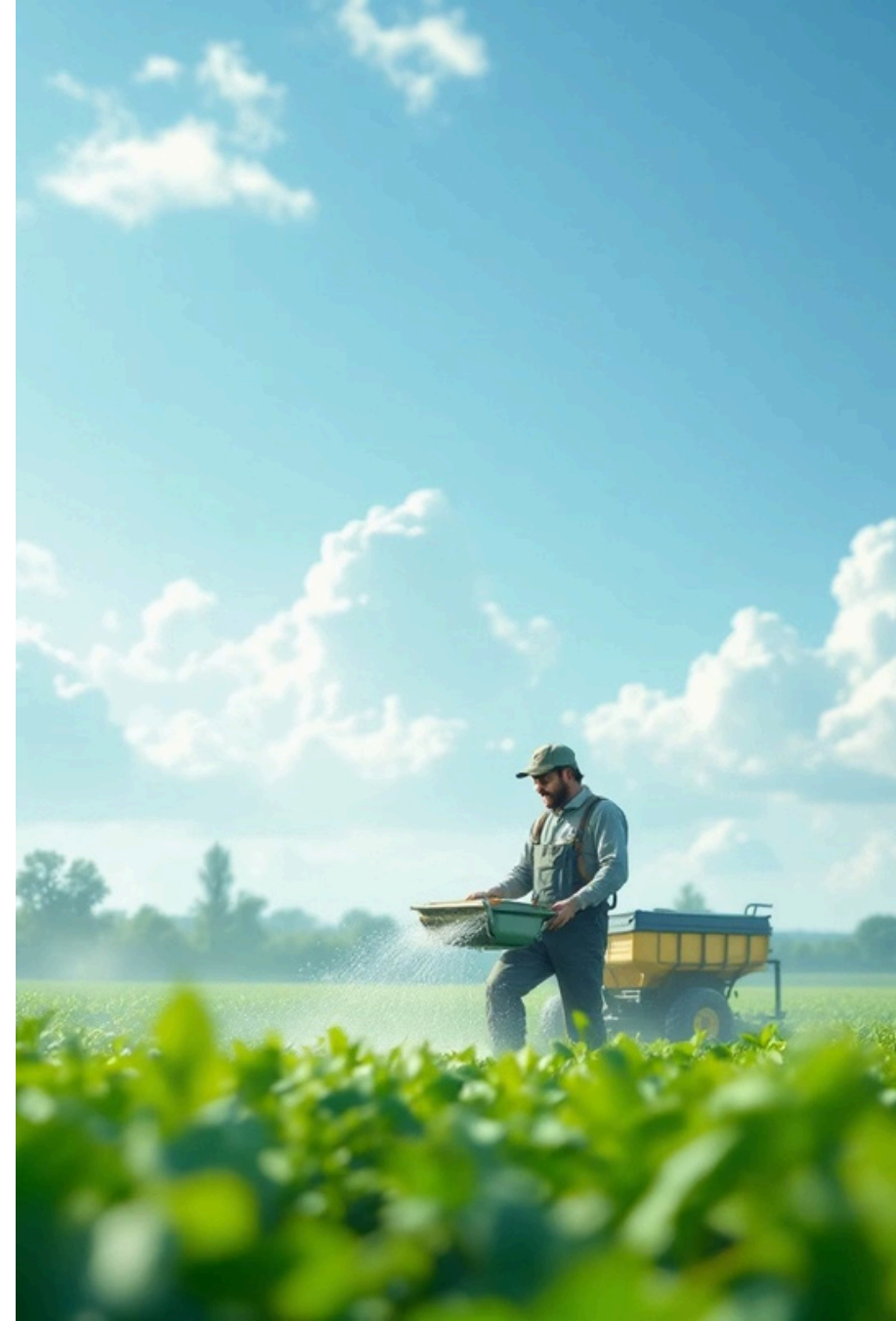
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Fertilizers: Production, Markets, and Export Potential

Fertilizers are substances that provide nutrients to soil and improve plant growth. They can be organic (natural) or chemical (inorganic/synthetic) in form.



Uses of Fertilizers



Soil Enrichment

Addresses nutrient deficiencies in soil



Increased Production

Enhances crop yield and overall production



Plant Health

Improves overall plant health and resilience

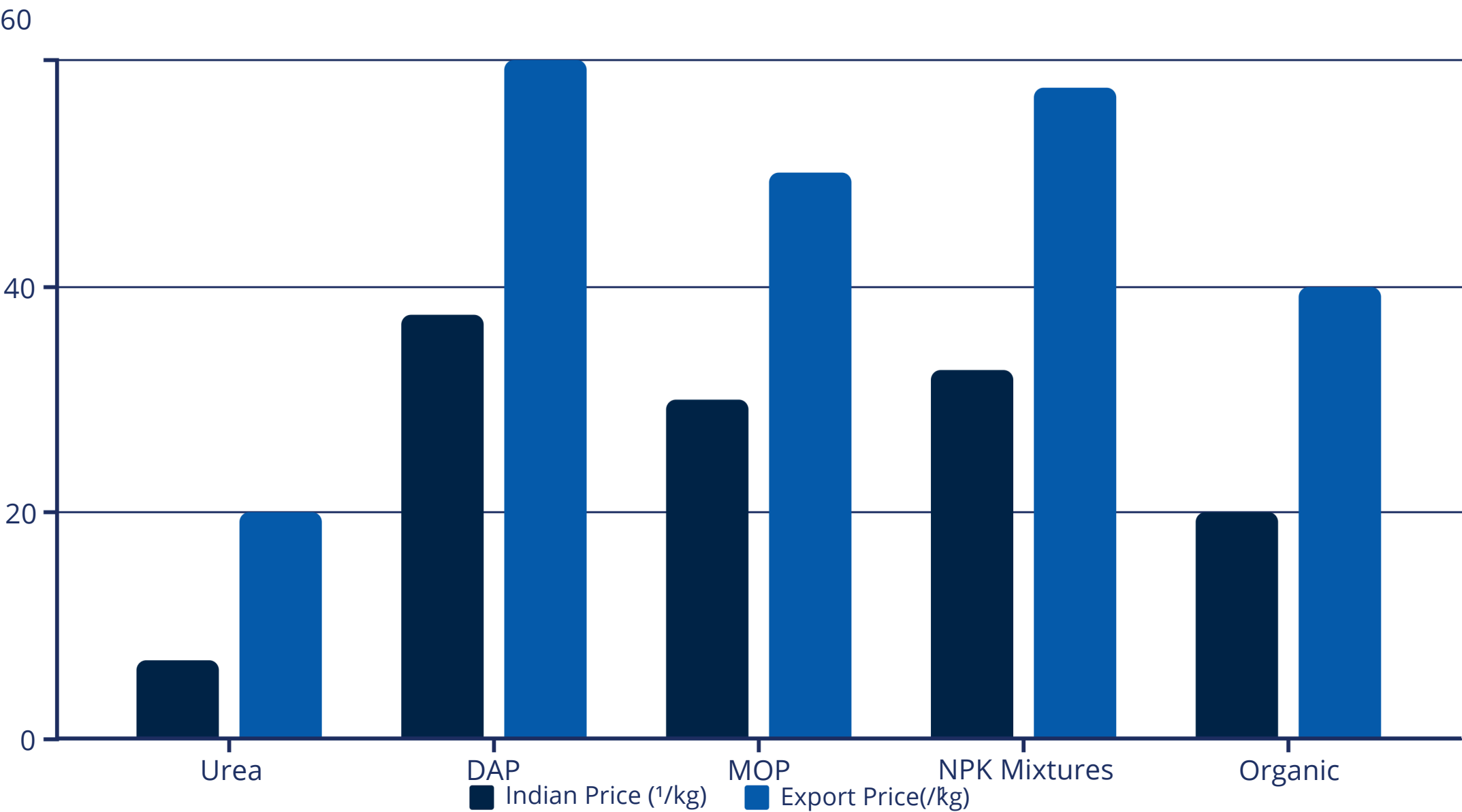


Quality Enhancement

Enhances quality of fruits, vegetables, and grains

Different crops require specific nutrients: Nitrogen for leafy growth, Potash for fruits, and Phosphorus for root development.

Indian Price vs Export Price Comparison



Note: Prices vary based on subsidies, raw material costs, global demand, and shipping expenses.

Fertilizer Product Categories



Nitrogenous Fertilizers

Urea, Ammonium Sulphate

Phosphatic Fertilizers

DAP, Single Super Phosphate (SSP)

Potassic Fertilizers

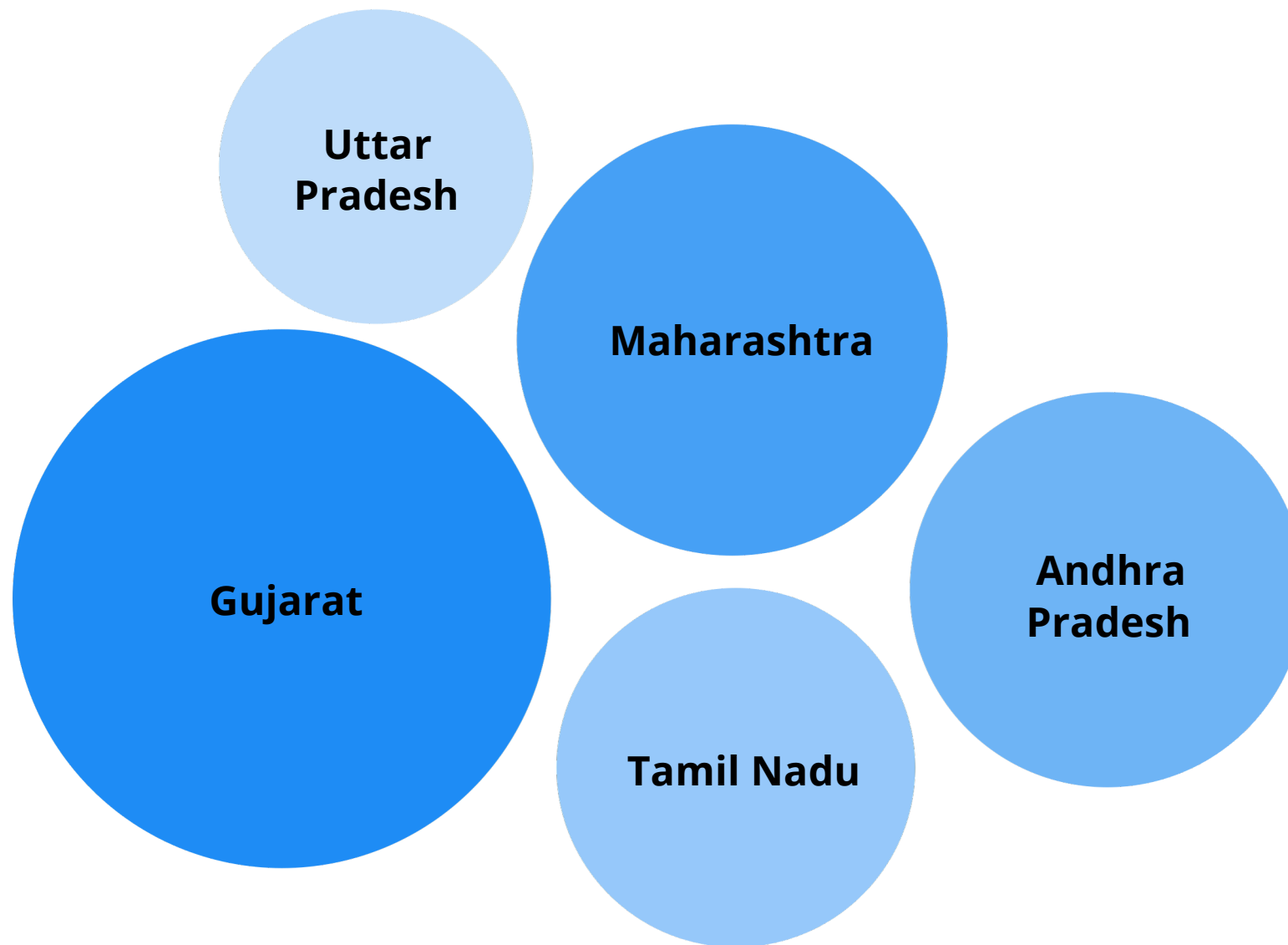
MOP, Sulphate of Potash (SOP)

Others

Complex NPK blends, Organic fertilizers,

Micronutrient fertilizers (Zinc, Boron, Iron, Magnesium)

Main Production States & Districts in India



Western India

Gujarat(Kalol, Bharuch, Kandla, Vadodara), Maharashtra (RCF-Trombay, Pune, Raigad)

Southern India

Andhra Pradesh (Vishakhapatnam, Kakinada), Tamil Nadu (Tuticorin, Neyveli, Tiruchirappalli)

Northern & Eastern

UttarPradesh(Kanpur,Gorakhpur), Odisha (Paradeep), Assam (Namrup)

Machinery Required for Fertilizer Manufacturing



- Rawmaterialcrushers &grinders
- Granulator machines (Drum/Disc Granulator)
- Blending & Mixing units
- Dryers & Coolers
- Coating drum (anti-caking coating)
- Packaging machines (bagging units)
- Pollution control equipment (scrubbers, dust collectors)
- Laboratory equipment (chemical analysis, nutrient testing)

Manufacturing Hubs of Fertilizers in India

Gujarat

IFFCO, GNFC, KRIBHCO plants

Maharashtra

RCFTrombay, Rashtriya Chemicals

Andhra Pradesh

Coromandel International, NFCL

Tamil Nadu

SPIC, Madras Fertilizers Ltd.

Odisha

IFFCO Paradeep

Uttar Pradesh

NFL, IFFCO Aonla & Phulpur

Wholesale Markets of Fertilizers in India



North India

BhagirathPalace (Delhi)



West India

VashiAPMCMarket (Mumbai), Ahmedabad Agricultural Market (Gujarat)



South India

Kothapet(Hyderabad), Gulbarga & Hubli Fertilizer mandi (Karnataka)



Central India

Barabanki&Kanpur mandi (UP)



Types of Qualities / Grades in Fertilizers



Quality Inspections & Test Reports Required



Content Analysis

NutrientContentAnalysis (NPK % exact value)

Physical Tests

Moisture%test, Particle size analysis (granular fertilizers)

Safety Tests

Heavymetalcontent test (Cd, Pb, Hg)

Cer tifications

Organiccertification, SGS/Intertek third-party inspection report, FCO compliance certificate