AGRICULTURAL POLICIES IN INDIA: ADAPTABLE TO SUSTAINABILITY CHALLENGES



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BASIC FACTS ABOUT INDIAN AGRICULTURE

INDIAN AGRICULTURE - BASIC FACTS

Total Geographical Area 329 million hectares

Net Area sown
 141 million hectares

Gross cropped area
 195 million hectares

• Cropping Intensity 138 %

Percentage area
 under Irrigation
 45 %

Rainfall

- Average 1100 mm

- Range 300 – 3000 mm

Operational holdings 129 million

- Small & marginal 83%

(< 2 hectares)



INDIAN AGRICULTURE - BASIC FACTS

- 2nd largest producer of rice, wheat, groundnut, sugarcane, tea, fruits
 & vegetables and seed cotton
- Largest producer of pulses, jute & fibre, mango, banana, spices, cashew, arecanut, papaya, sapota, milk, etc.

Agriculture contributes:

- 19% to GDP (At current prices)
- 11% of total exports
- More than half of India's workforce is employed in its agriculture sector
- Growth of other sectors and overall economy depends on performance of agriculture to a considerable extent.



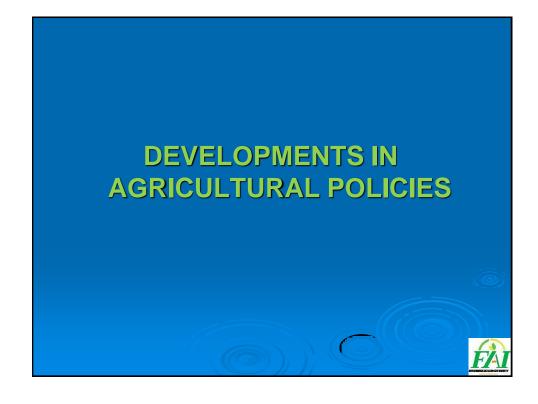
STRENGTHS > Rich Bio-diversity > Large arable land > Variety climate > Strong research infrastructure > Vast knowledge pool

WEAKNESSES Fragmented land Low productivity Low capital formation Low technology inputs Inefficient water management Inadequate infrastructure Inadequate credit from formal sources Inadequate risk management

OPPORTUNITIES / GROWTH DRIVERS

- Bridgeable yield gaps in food crops
- Vast potential for:
 - Cash crops
 - Horticultural crops
 - Allied agriculture (fisheries, livestock, poultry, piggery, etc.)
- > Huge potential for value addition and agro- processing
- Building infrastructure for marketing
- > Export opportunities
- Organic farming for domestic and exports
- Risk mitigation





AGRICULTURAL POLICIES

- Pre-Green Revolution period (1950/51 to mid 1960s) institutional changes and development of major irrigation projects
- The intermediary landlordism was abolished, tenant operations were given security of farming and ownership of land.
- Expansion of area was the main source of growth
- New Agricultural strategy (Green revolution technology) (from 1965-66) Spread of HYV of wheat and rice which involved use of fertilizers and irrigation.
- > The biggest achievement attainment of self sufficiency in food grains.



CHALLENGES IN POST REFORM PERIOD

- Green revolution has been widely diffused in irrigated areas, throughout the country, the dry land areas have not seen the benefit of technology
- Government initiated process of economic reforms in 1991, which involved deregulation, reduced government participation in economic activities, and liberalization new international trade accord, requiring opening up of domestic market
- To provide new direction to agriculture, GOI announced National Agricultural Policy in July 2000.



NATIONAL AGRICULTURAL POLICY

- > The National Agriculture Policy was announced on 28th July, 2000.
- > Seeks to:
 - (i) tap the vast untapped growth potential of Indian agriculture,
 - (ii) strengthen rural infrastructure,
 - (iii) promote value addition
 - (iv) accelerate the growth of agro business,
 - (v) create employment in rural areas,
 - (vi) secure a fair standard of living for the farmers and agricultural workers and their families,
 - (vii) discourage migration to urban areas and face the challenges arising out of economic liberalization and globalization.



AIMS OF NATIONAL AGRICULTURAL POLICY (NAP)

Over the next two decades, NAP aims to attain:

- A growth rate in excess of 4 per cent per annum in the agriculture sector;
- efficient use of resources and conserve our soil, water and bio-diversity;
- Widespread growth across regions and farmers;
- Growth that is demand driven and caters to domestic markets and maximizes benefits from exports of agricultural products
- Growth that is sustainable technologically, environmentally and economically

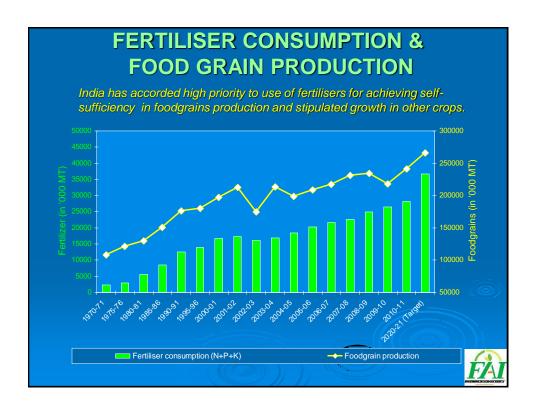




FUTURE CHALLENGES

- > Limited land area
- > Shrinkage in water resources
- Growing population
 - Projected population (2020) 1.4 billion
- > Ensuring food security
 - Estimated food-grain requirement 266 million tonnes in 2020
- Ensuring adequate nutrient availability
 - Estimated fertilizer nutrient requirement 37 million tonnes (N+P+K)
- Climate change





TASKS AHEAD

- To achieve higher agricultural productivity
- > To ensure food security
- > Efficient use of water resources
- > Balanced and efficient use of nutrients
- Measures to mitigate impact of climate change



RECENT INITIATIVES BY G.O.I AGRICULTURE

- National Food Security Mission launched with an outlay of over one billion dollar for XI Plan to increase the production of rice by 10 million te, wheat by 8 million te and pulses by 2 million te by 2011-12
- National Agriculture Development Programme with an outlay over 5 billion dollar for holistic development of agriculture sector
- National Horticulture Mission, Cotton Mission, Oilseeds and Pulses Mission
- Increase in agricultural credit through formal sources
- Steep increase in the minimum support prices
- Additional area of 10 million hectares under assured irrigation
- Infrastructure for soil and fertilizer testing
- Infrastructure for marketing and agro-processing.



RECENT INITIATIVES BY G.O.I - FERTILIZER

- Policy for encouraging production and availability of fortified and coated fertilizers
- Guidelines for production of Customized fertilizers
- Implementation of Nutrient Based Subsidy (NBS) on P & K fertilizers w. e .f. 1st April, 2010
- Policy for uniform freight subsidy on all fertilizers
- Extension of NBS for urea and New Investment Policy are under active consideration of the G.O.I.



NATIONAL MISSION FOR SUSTAINABLE AGRICULTURE (NMSA)

NMSA is envisaged as one of the eight Missions under the National Action Plan on Climate Change with the Objective of promoting Sustainable Agriculture.

Thrust areas:

- · Dry land Agriculture
- Access to Information
- Bio-Technology
- Risk Management

The Vision of NMSA:

- Transform Agriculture into Climate Resilient Production system
- Grow and Ecologically Sustain agricultural production to its Fullest Potential
- Ensure Food Security and Equitable Access to Food Resources,
- Enhance Livelihood Opportunities,
- Contribute to Economic Stability at the National Level

FAI

NMSA - KEY FOCUS AREA

- Strategic Planning at Agro Climatic Zone Level
- Customized interventions to enhance productivity
- Easy access to Information and institutional Support
- Linking Laboratory to Land
- Dry land Farming

