

# Sustainable Development Goals – IFFCO Initiatives



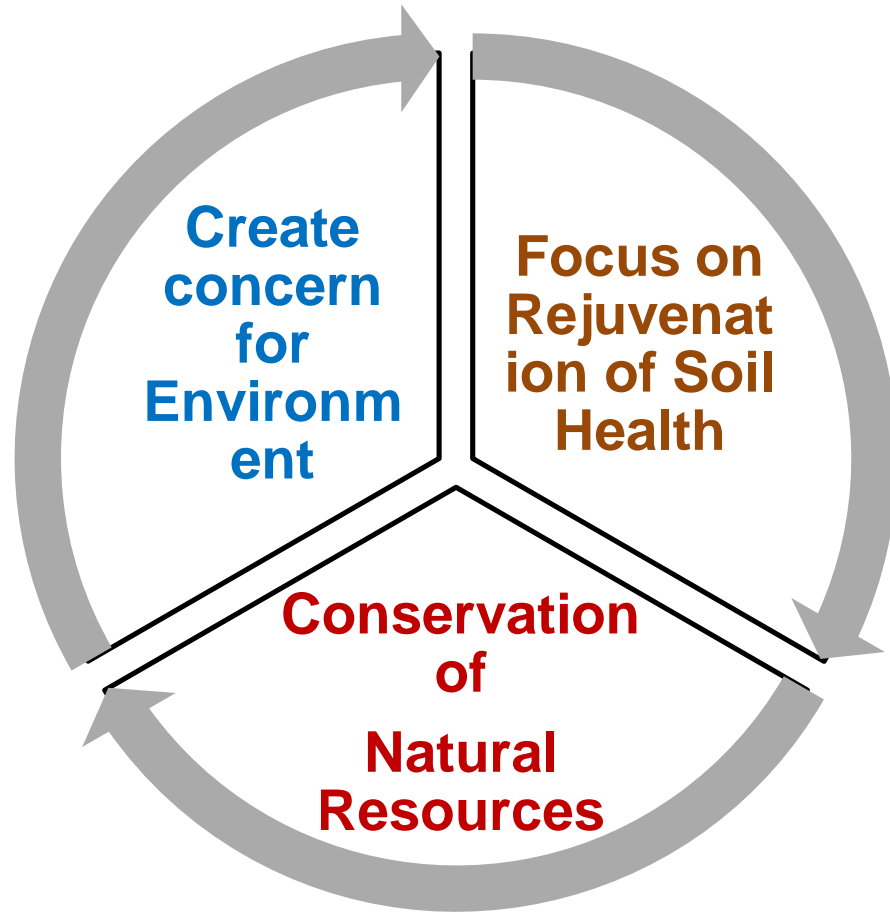
International Co-operative Alliance  
**Global Conference  
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Co-operatives: Putting People at the Centre Of Development

Presented by **Aditya Yadav**

# IFFCO's approach – Concern for Environment and Sustainable Agriculture



# IFFCO Initiative



Bringing in Sustainability and Strategies to prevent Climate Change by reducing Energy Consumption, better Resources Management and promoting Renewable Energy sources.

Energy Saving Projects to reduce Energy Use & Carbon footprint at cost of US\$300 Million.

Installation of Roof Top Solar Panels and Solar Projects.

Mfg. Neem Coated Urea for improving Nutrient Use Efficiency by 12-14%; reduce Env. Degradation.

Promoting Integrated Nutrient Management to improve efficiency of Fertilizer use and promoting location specific research on efficient fertilizer practices.

ON FARM demonstrations / Trials on Nutrient mgmt. through various approaches are conducted, their impact in enhancing crop productivity is convincing.

Agro technological Interventions- Reclamation of problem soils, Systems of Rice Intensification (SRI); Sustainable Sugarcane Initiative (SSI), Agriculture Implements and Machinery and other interventions.

# Farmers service center for providing inputs and knowledge at one place



Seeds



Fertilizers & Specialty fertilizers



Vermicompost



Biofertilizers



Machinery & Tools



Pesticides



Soil testing



Literature



# Diversification of Agriculture

Promotion of Hybrid rice, HY Basmati rice, Pulses, oilseeds, Fruits, vegetables, Seed Spices.

On-farm demonstrations with HY Hybrid seeds and INM

Initiated “NUTRI-GARDENING” for Food and nutrition



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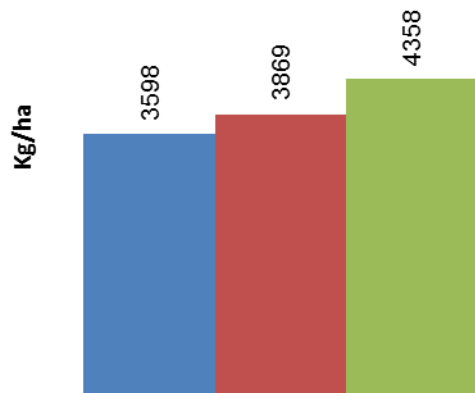


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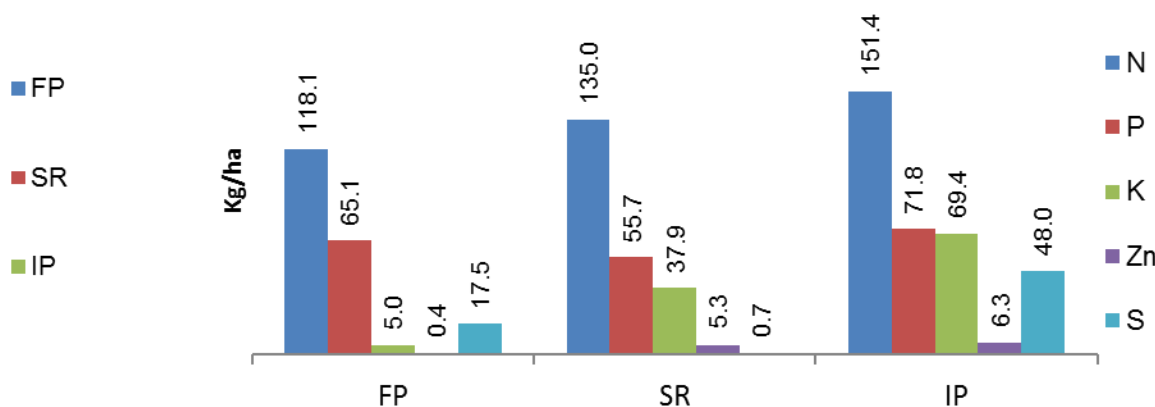


## Nutrient Management Options for Improving Crop Productivity, Unnao, Uttar Pradesh

Conducted 410 demonstrations in 10 crops (224 Wheat, 36 Rice, 12 Maize, 39 Black gram, 14 Chickpea, 5 Pigeonpea, 32 rapeseed, 27 sesamum and 21 potato) with 3 treatments. Application of fertiliser on soil test basis with technological interventions viz. HYVs and balanced use .



Nutrient Management Options: Wheat (224 nos.), Yield (Kg /ha)



Nutrient Management Options in Wheat (224 nos.) – NPK (Kg /ha)

## Soil Reclamation



Alkali Soils, Unnao, Uttar Pradesh : An area of 10 ha ( 42 farmers) with soil pH of 9.0 to 10.4 was treated with gypsum with average rate of 6 MT / ha. Gave 3.6 MT /ha paddy and 2.8 MT / ha wheat after reclamation as against 1.2 MT paddy /ha and 1.3 MT wheat /ha before reclamation.

Acid Soils, Rajgarh, Jashpur, Sarguja and Koriya districts, Chhattisgarh: An Area of 35 ha ( 165 farmers) with soil pH of 3.7 to 6.4 treated with 2.5 MT /ha lime gave 5.5 MT/ha paddy, as against 4.7 MT /ha in unlimed plots during *Kharif* 2010. Wheat yield also increased from 3.6 MT /ha in unlimed plots over 3.89 MT /ha in lime treated plots.

# Green Manuring



Since 2010-11, IFFCO has been extensively promoting green manuring throughout the country and covered 37695 ha area. An estimated 16-20 MT /ha biomass was added which is equivalent to 50 -60 Kg N/ha ( 110-125 Kg Urea /ha).

Based on area of 20 ha (25 farmers), Green manure treated plots gave 3.5 to 3.75 MT paddy /ha as compared to 3.0 MT paddy /ha without green manure in Amritsar district of Punjab. Farmers have applied about 10 % less Urea in succeeding Wheat crop.



# Road Ahead

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IFFCO is receiving High response from Farmers and Cooperatives in villages to promote Sustainable Agriculture Development initiatives.

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Healthy participation of Women and Youth in these programs, which encourages Women empowerment and Youth employment.

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The seed sown by IFFCO has grown into a tree.

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Need to scale it up and catalyze to make it a mass movement.

