- Identification of nutrient constraints under major cropping systems under south Gujarat
- Developing techniques for enhancing fertilizer use efficiency and reducing environmental pollution.
- Developing techniques for balanced and conjunctive use of various sources of nutrient supply including bio-fertilizers / legumes.
- Evaluation of water, nutrient and tillage interactions in important soil cropping systems for sustainable high productivity.
- Development of fertility-management strategies for specific problem soils viz. Saline and alkali soils, waterlogged, arid, hilly and coastal soils.
- Evaluation of ground water quality
- Preparation of quality manures from different crop residues.
- Pesticide residues and heavy metal status in food commodities.
- Development of fertilizer and manure use strategies to reduce nitrate leaching to ground water system.
- Development and refinement of soil-test methods to diagnose nutrient constraints for making reliable recommendations for fertility restorer to achieve sustainable high production
- Evaluation of Natural Farming System in different crops.

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