



# Future Plan

- In view of the growing concern for maintaining sustainability soil productivity, research work on the following areas needs to be attended in near future
- Identification of nutrient constraints under major cropping systems on benchmark soils (waterlogged, arid, hilly and coastal soils)
- 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.
- Characterization of fertility restorer inputs like available organic/bio-fertilizers, crop residues, city wastes etc. and their inventory at least at block level for developing IPNS modules in local/regional perspectives.
- Evaluating quality of organic carbon pool for crop productivity, modeling the turnover of organic matter in long –term experiments and establishing organic carbon threshold values for sustainability.
- Characterization and dynamics of key biotic population (N<sub>2</sub>-fixing organisms, P-solubilizers, mycorrhiza, earth worms) and improving the shelf life of inoculation.
- 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 DRIS approach in banana.
- Comparison of different method for digestion and extraction for essential elemental analysis.

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