



## RESEARCH PROJECT / SCHEME DETAILS

### **I. AICRP on Fruit (Banana, Sapota and Papaya) (B. H. 2014-5):**

1. Collection, characterization, conservation, evaluation and utilization of germplasm of banana
2. Clonal selection in banana
3. Evaluation of new introduction of banana (MLT-5) (b) NRCB selection 14
4. Assessment of phenology, productivity and incidence of insect pests and diseases in banana grown under varying climate conditions
5. Multilocation testing of new papaya selection (MLT-I)
6. Multilocation testing of new papaya hybrids (MLT-II)
7. Evaluation of Arka Microbial Consortium (AMC) for growth and yield of papaya
8. Grafting in papaya
9. Widening the genetic base in sapota
10. Evaluation of new clones of sapota
11. Spacing and canopy management in sapota
12. Studies on residual and cumulative effect of nutrients in sapota
13. Testing the Efficacy of micro-nutrient mixtures for better yield and quality of banana under different Agro-climatic conditions (Observational Trial)
14. Assessment of phenology, productivity and incidence of insect pests and diseases in sapota grown under varying climate conditions
15. Survey on new and emerging insect pests and plant parasitic nematodes with their natural enemies in banana
16. Management of banana weevils with Novel insecticides
17. Banana weevil killer (*Beauveria bassiana* NRCB EPF22) for management of banana weevils
18. Survey and surveillance of emerging insect pests of sapota and their natural enemies
19. Slow-release pheromone formulation for the management of fruit fly in sapota
20. Survey of emerging disease (s) of banana
21. Diagnosis of banana viruses in germplasm and planting material used in experiments
22. Artificial Intelligence (AI) powered decision support system development for leaf spot disease management in banana
23. Bio intensive management of Fusarium wilt disease in Banana
24. Bio control management of Eumusae leaf spot in banana
25. Survey on disease dynamics in papaya



## **II. Research on Fruit Crops (B. H. 5014):**

1. Validation of protocol for extending papaya seed viability in storage
2. Fertigation studies in sapota cv. Kalipatti
3. Effect of different organic inputs in banana
4. Feasibility of banana germplasm for processing
5. Effect of age of rootstock on success of approach grafting in Mango (*Mangifera indica* L.)
6. Studies of population dynamics and natural enemies of sapota midrib folder, *Banisia myrsusalis elearalis* (Walker)
7. Varietal performance of sapota against major insect pests under high density plantation
8. Evaluation of botanicals and biopesticides against thrips complex in banana
9. Evaluation of different modules against of major insect pests of sapota
10. Screening of germplasm against rhizome rot
11. New and emerging diseases in sapota

## **III. Revolving Fund (B. H. 9510-N-12)**

1. Propagation of Mango and *Khiranee* seedlings.
2. Production of Mango and sapota grafts.
3. Seedling production of other fruits crops and ornamentals plants.

## **IV. Tribal Sub-Plan (B. H. 2075):**

1. Demonstration of banana crop technologies on Scheduled Tribe (ST) farmers' field in tribal area of Dang and Valsad districts.

## **V. Mission for Integrated Development of Horticulture – MIDH (B. H. 18930-7):**

1. Seed Production of black pepper seedlings.

## **VI. Banana Biofortification project (B. H. 18225)**

1. Level of expression of PVA and Iron.
2. Agronomic performance.

## **VII. Banana Macro-propagation Technique for Production of Low Cost Planting Material (B. H. 12084)**

1. Capacity building training to the banana growers and nurseryman for production of low cost planting material.
2. Utilization of waste suckers for propagation of low cost banana planting material.

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