



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. MLT (VI) of Banana selections/ Introduced hybrid (NRCB Selection-16)
5. MLT(VI) of Banana selections/ Introduced hybrid (Anand Vaaman)
6. Testing the Efficacy of micro-nutrient mixtures for better yield and quality of banana under different Agro-climatic conditions (Observational Trial)
7. NPK transforming biofertilizer formulation for banana
8. Assessment of phenology, productivity and incidence of insect pests and diseases in banana grown under varying climate conditions
9. Survey on new and emerging insect pests and plant parasitic nematodes with their natural enemies in banana
10. Management of banana weevils with Novel insecticides
11. Banana weevil killer (*Beauveria bassiana* NRCB EPF22) for management of banana weevils
12. Survey of emerging disease (s) of banana
13. Diagnosis of banana viruses in germplasm and planting material used in experiments
14. Artificial Intelligence (AI) powered decision support system development for leaf spot disease management in banana
15. Bio intensive management of Fusarium wilt disease in Banana
16. Bio control management of Eumusae leaf spot in banana
17. Evaluation of Banana selections for disease resistance (a) NRCB Selection 20 (Observational trial)
18. Evaluation of Banana selections for disease resistance (b) Gujarat Banana 2-Prasadam (Observational trial)
19. Multilocation testing of new papaya selection (MLT-I)
20. Multilocation testing of new papaya hybrids (MLT-II)
21. Grafting in papaya
22. Arka mealy-melt technology for management of mealy bugs in papaya
23. Survey on disease dynamics in papaya
24. Widening the genetic base in sapota
25. Evaluation of new clones of sapota
26. Multilocation testing of sapota varieties (MLT)

27. Spacing and canopy management in sapota
28. Studies on residual and cumulative effect of nutrients in sapota
29. Survey and surveillance of emerging insect pests of sapota and their natural enemies
30. Multilocation testing of Kamalam (Dragon fruit) variety (MLT-1)
31. Sunburn mitigation in Kamalam (dragon fruit) through kaolin-based bio-stimulant spray technology
32. Optimization of irrigation scheduling and fertilizer doses (N:P:K) in Kamalam (dragon fruit)

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

1. Feasibility of banana germplasm for processing
2. Fertigation studies in sapota cv. Kalipatti
3. Canopy architecture of sapota orchard
4. Slow-release pheromone formulation for the management of fruit fly in sapota
5. Studies of population dynamics and natural enemies of sapota midrib folder, *Banisia myrsusalis eleoralis* (Walker)
6. Evaluation of different modules against of major insect pests of sapota
7. Screening of germplasm against rhizome rot
8. New and emerging diseases in sapota

III. 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.

IV. Mission for Integrated Development of Horticulture - MIDH (B. H. 18930-7):

1. Seed Production of black pepper seedlings.

V. 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.

VI. 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.
