RESEARCH PROJECTS/SCHEME DETAILS

Non-plan Scheme

Name of the Scheme	**Project for Research in Fruit Crops**
Budget Head	**5014**

Objectives/Mandate of the scheme:

1. To evolve alternate and economically viable crops and cropping systems for grassland of this region.
2. To develop agro techniques for mango fruit Crop.

Ongoing Experiments:

1. Ultra high density plantation in mango.
2. Effect of pruning on sapota cv. Kalipatti planted at normal distance.
3. Evaluation of growth, yield and quality of promising half-sib selections from Alphonso.
4. Survey and selection of plus trees for regular bearing character in mango var. Langra.
5. Canopy management in mango cv. Kesar under high density planting.
6. Canopy management in mango cv. Totapuri under high density planting.
7. Canopy management in mango cv. Alphonso under high density planting.
8. Effect of rootstocks on growth and yield of mango cv. Kesar.

Staff Position:

Name of the post	Sanctioned	Filled	Vacant	Name of employee	E-mail ID
Research Scientist (Horti.)	1	1	-	Dr. D. K. Sharma	dksharma@nau.in
Assistant Research Scientist (Horti.)	1	1	-	Dr. J. P. Makati	jp_makati@nau.in
Agriculture Officer	1	-	1	Vacant	-
Agri. Supervisor	2	-	2	Vacant	-
Agri. Assistant	6	5	1	Shri N. B. Chhaya	-
Agri. Assistant				Shri G. S. Kurkutia	-
Agri. Assistant				Shri K. P. Patel	-
Agri. Assistant				Shri K. P. Chauhan	-
Agri. Assistant				Shri P. B. Patel	-
Agri. Assistant				Vacant	
Sr. Clerk	1	1	-	Shri P. M. Patel	-
Jr. Clerk	1	1	0	Shri. V. P. Chudasma	vir@nau.in
Tractor Driver	1	0	1	Vacant	-

Name of the Scheme	**Establishment of Water Management Scheme**
Budget Head	**7027**

Objectives/Mandate of the scheme:

1. To determine the water requirements of different fruit crops grown under command area of Daman Ganga project
2. To determine the fertilizer requirement and cropping pattern of the traditional crops
3. To find out the proper method of irrigation in different soils for higher crop production and to maintain the soil fertility

Ongoing Experiments:

1. Efficacy of organic mulches on soil properties, growth and yield of mango cv. Kesar in rainfed eco-system.
2. Effect of time of irrigation on flowering and yield of cashew.
3. Effect of different sowing methods and nutrient management on Indian bean var. GNIB-21 sown after rice.
4. Effect of soil and foliar application of multi-micronutrients on yield and quality of mango cv. Kesar.
5. Effect of N, P and K fertilizer on yield and quality of mango cv. Kesar.

Staff Position:

Name of the post	Sanctioned	Filled	Vacant	Name of employee	E-mail ID
Assistant Research Scientist (Agronomy)	1	1	-	Dr. N. K. Gajre	niravgajre@nau.in
Assistant Research Scientist (Soil Science)	1	1	-	Dr. N. B. Gohil	nareshgohil@nau.in
Agri. Assistant	1	1	-	Shri H. M. Patel	-
Lab boy	1	1	-	Shri G. D. Khalifa	-

Plan Scheme

Name of the Scheme	Strengthening of Water Management Project
Budget Head	12027

Objectives/Mandate of the scheme:

1. To determine the water fertilizer requirement of different fruit crops grown under command area of Daman Ganga project
2. To develop the system of conservation for rain water.
3. To determine the cropping pattern of the command area of Daman Ganga project.

Ongoing Experiments:

1. Effect of time of irrigation on flowering and yield of mango var. Kesar.
2. Effect of foliar application of fertilizers on flowering, yield and quality of cashew (*Anacardium occidentale* L.) cv. Vengurla-4.

Staff Position:

Name of the post	Sanctioned	Filled	Vacant	Name of employee	E-mail ID
Agriculture Officer	1	-	1	Vacant	-
Agri. Assistant	1	1	-	Miss A. A. Patel	-

Name of the Scheme	National Agricultural Research Project Phase-II
Budget Head	12091-2

Objectives/Mandate of the scheme:

1. Strengthening of research work on fruit and vegetable crops of this region, including mango.
2. To conduct demonstrations of release technologies in vegetable and fruit crops and training program for tribal farmers.

Ongoing Experiments:

1. Determination of different decline syndromes in mango orchard.
2. Survey and incidence of disease in cashew.
3. Comparative assessment of some Jamun genotype under south Gujarat agro climatic condition.

Staff Position:

Name of the post	Sanctioned	Filled	Vacant	Name of employee	E-mail ID
Associate Research Scientist (Horti.)	1	1	-	Dr. S. Y. Patel	-
Lab Attendant	1	1	-	Shri L. K. Bhoye	-

ICAR Scheme

Name of the Scheme	**All India Coordinated Research Project on Fruits**
Budget Head	**2014-5**

Objectives/Mandate of the scheme:

1. Collection, evaluation, documentation and utilization of the genetic resources.
2. Improvement through breeding.
3. Standardization of propagation techniques and rootstocks.
4. Standardization of agro-techniques and use of bio-regulators.
5. Management of pests, diseases and other disorders.

Ongoing Experiments:

A. Horticulture:

1. Augmentation and evaluation of germplasm
2. MLT of mango hybrids
3. MLT (II) for mango hybrids
4. Improvement of mango through half-sibs
5. Evaluation of different rootstocks of mango for problematic soils
6. Fertilizer scheduling for High Density Planting in mango
7. Assessing the effect of climatic variability on mango flowering and yield

B. Entomology:

1. Survey and surveillance of insect-pests and natural enemies in mango
2. Evaluation of different botanical formulations for management of sucking pest complex in mango
3. Module based pest management in mango
4. Management of mango hoppers and thrips on mango by oil based formulation of Metarhizium anisopliae
5. Management of mango stem borer (*Batocera rufomaculata*) using 'Arka Borer Control'
6. Crop loss assessment by major insect-pests and diseases of mango

C. Plant Pathology:

1. New and emerging diseases of mango
2. Integrated management of post-harvest diseases (Anthracnose, Shoulder browning, Stem end rot and Aspergillus rot) of mango fruits

Staff Position:

Name of the post	Sanctioned	Filled	Vacant	Name of employee	E-mail ID
Associate Research Scientist (Horti.)	1	1	-	Dr. C. R. Patel	crphort@nau.in
Assistant Research Scientist (Ento.)	1	1	-	Dr. S. M. Chavan	smchavan@nau.in
Assistant Research Scientist (Horti.)	1	1	-	Dr. J. H. Gohil	jigar.gohil78@gmail.com
Agriculture Officer	2	1	1	Mrs. Hiral R. Patel	heerpatel918@gmail.com
				Vacant	-
Field Assistant	1	1	-	Shri V. A. Patel	-
Lab Technician	1	1	-	Mrs. Neha Patel	-
Junior Clerk	1	-	1	Vacant	-
Mali	2	2	-	Shri R. K. Patel	-
				Shri A. T. Patel	-

Name of the Scheme	**All India Coordinated Research Project on Cashew**
Budget Head	**2048**

Objectives/Mandate of the scheme:

1. Standardizing agro techniques foe cashew crop under different agro climatic situations of South Gujarat.
2. Evolving cost effective and efficient pest and disease management practices.
3. Evolving high yielding varieties with export grade kernels, tolerance/ resistance to pest and diseases.

Ongoing Experiments:

1. Germplasm collection, conservation, evaluation, characterization and cataloguing.
2. Performance of selected released varieties (Special MLT-VI).
3. Nutrient management for yield maximization in Cashew.
4. High density planting: Observational trial in Cashew.
5. Studies for inter cropping in cashew.
6. Spacing cum fertilizer trial in Cashew
7. Chemical control of pest complex in Cashew.
8. Monitoring of insects pests and their natural enemies of Cashew.
9. Mapping of natural enemy complex of TMB.

Staff Position:

Name of the post	Sanctioned	Filled	Vacant	Name of employee	E-mail ID
Assistant Research Scientist (Ento.)	1	1	-	Dr. S. G. Parmar	sgparmar@nau.in
Assistant Research Scientist (Horti.)	1	1	-	Dr. S. K. Desai	skdesai@nau.in
Technical Assistant	1	1	-	Shri V. A. Darbar	-
Supporting staff	1	-	1	Vacant	-