

**Research Review:
Plan/Non Plan/ICAR and Other Agency Project
Soil and Water Management Research Unit, NAU, Navsari**

Information of Research Station

Name of the centre	Soil and Water Management Research Unit, NAU, Navsari
Year of Establishment	May, 1970
Mandate of the centre	<ul style="list-style-type: none"> ➤ To workout the water requirement and scheduling of irrigation of mandate crops/ cropping sequences. ➤ To study and develop the design criteria of different surface irrigation methods for efficient use of water. ➤ Feasibility studies of pressurized irrigation methods along with fertigation and mulching ➤ To develop mulching technologies for different crops. ➤ Basic studies on soil-water-plant relationship. ➤ Drainage requirement studies for water logged and saline soils of command areas. ➤ Creation of data base for soils of Gujarat with special reference to water logging and salinity. ➤ Moisture retention and release characteristics of the soils command areas and state. ➤ Creation of alternative water resources. ➤ Crop suitability based land use planning. ➤ Characterization and management of salt affected soils of South Gujarat (coastal and inland). ➤ Training to the farmers, officers, VLW <i>etc.</i>

Details of land at the centre (ha)

Cultivated	Irrigated	Non-Irrigated	Area Under infrastructure	Total
19	19	-	1	20

Details of the Budget (2018-19)

Funding Agency	Title of the scheme/project	Budget Head	Grant Sanction (Rs in lakhs)	Balance Grant (1.01.19)	% Use Grant
<i>Plan</i>					
Govt. of Gujarat	Strengthening of Existing Department of Water Management	12866/00	23.10	7.2	69
Govt. of Gujarat	Centre of Excellence for Soil & Water Management Technology	12908/00	4.80	1.6	68
Govt. of Gujarat	Maximization of the total factor productivity of banana production system through value addition and by product utilization, Navsari	12026/00	38.17	9.8	74
Govt. of Gujarat	Strengthening of Soil & Water Management Training Centre	12308/00	14.87	4.7	69
Govt. of Gujarat	Research on Land Use Planning	12937/00	3.90	1.2	68
Govt. of Gujarat	Center of Excellence for Precision Agriculture at Navsari.	12037/00	17.71	5.3	70
<i>Non Plan</i>					
Govt. of Gujarat	Establishment of main irrigation research station	5023	73.02	25.9	64
Govt. of Gujarat	National agricultural research project phase-II	9091-1	13.31	3.2	76
ICAR					
ICAR	AICRP on Irrigation Water Management	2027	104.73	62.5	40
	AICRP on Irrigation Water Management, Navsari (TSP Component)	02027/0A	5.0	4.67	77
Other Agency					
	Establishment of Plasticulture Development (PFDC)	18009/84	24.13	6.5	73
	Training and Demonstration (PFDC)	18009/85	4.43	2.5	43

Details of Man Power at the centre (01.01.2019)

Funding Agency	Name of employee	Designation	Pay scale	B. H.
<i>Plan</i>	Dr. C. S. Desai	Asstt. Res. Sci.	15600-39100(AGP-7000)	12026
	Mrs.P. U. Patel	Agril. Asstt.	29900-92300	
	Mr. K. I. Patel	"	"	
	Mr. A. M. Patel	Asstt. Res. Sci.	15600-39100(AGP-6000)	12037
	Mr K. K. Patel	Asstt. Res. Sci.	"	12866
	Mr. D. A. patel	"	"	
	Mr. B. M. Solia	"	"	12308
<i>Non Plan</i>	Mr. Parth B. Patel	Asstt. Res. Sci	15600-39100(AGP-6000)	9091-1
	Mr. D. K. Dave	Driver	19900-63200	
	Mr. N. G. Savani	Asstt. Res. Sci.	15600-39100(AGP-7000)	5023
	Mr. P. B. Patel	Agril. Asstt.	29900-92300	
	Mr. P. H. Patel	"	"	
	Mr. D. D Patel	"	"	
	Mr. C. S. Chaudhari	"	"	
	Anjali J. Patel	"	"	
	Mr. B. B. Rathod	Sr. Clark	25500-81100	
	Mr. R. B. chaudhari	Tractor Driver	19900-63200	
	Mr. R. M. Patel	Valve operator	14800-47100	
<i>ICAR</i>	Dr. V. P. Usdadia	Res. Scientist	37400-6700 (AGP-10000)	2027
	Prof.. R. B. Patel	Asstt. Res. Sci.	15600-39100 (AGP- 9000)	
	Mr. M. R. Parmar	Agril. Asstt.	29900-92300	
	Mrs. B. N. Ahir	Jr. Clark	25500-81100	
	Mr. R. M. Naika	Massager	14800-47100	

Scheme wise details of the experiment (2018-19)

Kharif:

Budget Head	Res. Sub Committee	Year of Approval	PI	Title of experiment	Status
12026	12 th , NRM,	2016	Dr. V. P. Usdadiya	Survey on impact of 'NAUROJI Novel Organic Liquid Fertilizer' in different crops of South Gujarat	Progress
12937	11 th ,NRM	2015	Dr. V. P. Usdadiya	Quantify the contribution of each factor towards productivity of banana	to be conclude
12037	14 th ,NRM	2018	Dr. V. P. Usdadiya	Effect of water application through vertical inserted pipe in clay soil with different levels of irrigation and fertigation on growth and yield of sapota	Initiated

5023	11 th ,NRM	2015	Dr. V. P. Usdadiya	Effect of precise application of planting material, irrigation and fertilizer on productivity of sugarcane	Progress
9091-1	14 th ,NRM	2018	Dr. V. P. Usdadiya	Performance evaluating of different method of irrigation and tillage practices on sweet corn after <i>kharif</i> paddy	Progress

Rabi/Summer:

Budget Head	Res. Sub Committee	Year of Approval	PI	Title of experiment	Status
12908	12 th ,NRM	2016	Dr. V. P. Usdadiya	Study on drip system layout for different row spacing in vegetable Indian bean- sweet corn cropping sequence	Progress
12037	13 th ,NRM	2017	Dr. V. P. Usdadiya	Spatial distribution of moisture and nutrient under different drip design and fertigation level in cabbage (<i>Brassica oleracea L</i>) grow on clay soil of South Gujarat	Progress
5023	10 th ,NRM	2014	Dr. V. P. Usdadiya	Study on intercropping in drip irrigated bottle gourd	to be concluded
5023	14 th ,NRM	2018	Dr. V. P. Usdadiya	Effect of land leveling on crop water requirement & growth of sugarcane	Progress
2027	12 th ,NRM	2016	Dr. V. P. Usdadiya	Effect of different levels of irrigation and fertigation on rabi sorghum – vegetable cowpea cropping sequence	Progress
2027	11 th ,NRM	2015	Dr. V. P. Usdadiya	Effect of different levels of irrigation, nitrogen and foliar application of banana sap on drip irrigated sweet corn and their residual effect on succeeding summer green gram under South Gujarat conditions	Progress
2027	14 th ,NRM	2018	Dr. V. P. Usdadiya	Fertigation study in cauliflower on clay soils of South Gujarat	Progress
18009-84/85	14 th ,NRM	2018	Dr. V. P. Usdadiya	Performance of roses in coloured shade net houses with different netting under South Gujarat conditions	Progress
18009-84/85	14 th ,NRM	2018	Dr. V. P. Usdadiya	Study of inline subsurface drip system in respect to different discharge rate, spacing and lateral depth in sugarcane	Progress
5023	13 th ,NRM	2017	Dr. V. P. Usdadiya	Performance evaluation of irrigation and tillage practices on sweet corn after <i>kharif</i> paddy	Progress

Details of the seed production (2018-19)

Crop	Season	Types of Seed	Area (ha)	Production (kg)
Rice	kharif	Truthfull	4.5	18900
Turmeric	Kharif	Truthfull	0.35	6000

Year wise No. of Recommendations (Last five years)

	Year				
	2013-14	2014-15	2015-16	2016-17	2017-18
	Research Sub Committee				
Budget Head	(10 th , NRM)	(11 th , NRM)	(12 th , NRM)	(13 th , NRM)	(14 th , NRM)
12866	1				
12026	2			1	
12037			1		1
2027	2	1	1	1	2
5023	1	1	1	1	1
18009-84		1		1	1
9091-1	1		1		

Noteworthy achievement of Soil and Water Management Research Unit, NAU, Navsari

- Production and distribution of Organic liquid Nutrients (OLN): 27000 litres
- MoU for commercial production of OLN: 3
- MoU with NCPH New Delhi for plasticulture technology
- Soil Health Card ditributed to Farmers: 2450

Information on Danti Research Station

Name of centre	Coastal Soil Salinity Research Station, Danti
Year of Establishment	1966
Mandate of the centre	<ol style="list-style-type: none"> 1. Develop reclamation techniques for coastal salt affected soils 2. Identify possibilities of introduction of new crops, suitable trees and grass species for coastal salt affected soils 3. Find out optimum fertilizer schedule and their method of application, optimum seed rate, crop geometry, date of sowing, number of irrigations under coastal salt affected soil 4. Find out suitability of saline water usage for irrigation purpose and develop appropriate water management technologies 5. Breeding and screening of paddy varieties suitable for coastal salt affected soils

➤ Details of land at the centre (ha.)

Cultivated	Irrigated	Non-irrigated	Area under Infrastructure	Total
8.30	3.00	5.30	3.17	11.47

➤ **Details of Budget (2018-19) : Plan /Non Plan /ICAR/ Other Agency**

Funding Agency	Title of Scheme / project	Budget Head	Grant sanction (Rs. in Lakhs)	Balance grant (1.1.2019) (Rs. in Lakhs)	% use grant
Plan					
Govt. of Gujarat	Strengthening of Salinity Research	12027	29.44	6.78	77.0
Govt. of Gujarat	Strengthening of Research in Paddy	12003	15.56	4.41	71.6
Non plan					
Govt. of Gujarat	Project for research in Paddy	5003	10.30	2.54	75.3
Govt. of Gujarat	Project for Research in Agronomy and crop husbandry	5025	38.05	14.90	60.8

➤ **Details of manpower (as on 01/01/2019)**

Funding Agency	Name of employee	Designation	Pay scale (6th CPC)	B.H.
Non- Plan	Dr. M. M. Patel	Associate Research Scientist	37400-67000-9000	5025
	V. K. Desai	Agricultural supervisor	9300-34800 (GP 4400)	5025
	G.R. Gayakvad	Agril. Assistant	9300-34800 (GP 4400)	5025
	P. N. Gujjar	Agril. Assistant	19950 Fix	5025
	Vacant	Junior clerk	5200-20200 (GP 1900)	5025
	Vacant	Tractor driver	5200-20200 (GP 2800)	5025
	Vacant	Watchman	4440-7440	5025

			(GP 1400)	
Plan	Dr. H. K. Joshi	Assistant Research Scientist (Pl. Breeding)	15600-39100-6000	12003
Plan	Prof. V. A. Patel	Assistant Research Scientist (Soil Sci.)	15600-39100-6000	12027
	R. K. Kapadiya	Agricultural officer	9300-34800 (GP 4400)	12027
	P. B. Patel	Laboratory technician	9300-34800 (GP 4200)	12027
	B. S. Patel	Lab. Boy	4440-7440 (GP 1300)	12027
Non- Plan	Y. T. Vansiya	Agril. Assistant	9300-34800 (GP 4400)	5003
	V. S. Chaudhari	Agril. Assistant	19950 Fix	5003
	Vacant	Junior clerk	5200-20200 (GP 1900)	5003

➤ Scheme wise details of experiments (2018-19)

B.H.	Season	Res. Sub-Committee	Year of approval	Title of experiment	Status
12027 Plan	<i>Kharif</i>	12 th NRM	2015-16	Effect of gypsum and integrated nutrient management on <i>kharif</i> rice and their residual effect on succeeding onion under partially reclaimed coastal salt affected soil	2 nd season completed
		14 th NRM	2017-18	Response of different forage grasses to gypsum application under coastal salt affected soils	1 st season Progress
		--	--	AVT-2 AL & ISTVT Trail (Agronomy)	--
		--	--	AVT-2 CSTVT Trail (Agronomy)	--
5025 Non-Plan	<i>Kharif</i>	13 th NRM	2016-17	Effect of organic manure on rice based cropping system under coastal salt affected soils	2 nd season Progress
		14 th NRM	2017-18	Response of brinjal to integrated nutrient management under coastal salt affected soils of south	Progress

				Gujarat	
	<i>Rabi</i>	12 th NRM	2015-16	Effect of land configuration, gypsum and integrated nutrient management on growth and yield of radish	Progress
5003 Non-Plan	<i>Kharif</i>	Rice technical programme meeting - 2018	2018-19	Preliminary Evaluation Trial-Salt (MS)	Completed
		-,-	-,-	Preliminary Evaluation Trial-Long Slender	Completed
		-,-	-,-	Preliminary Evaluation Trial-Long Bold	Completed
		-,-	-,-	Preliminary Evaluation Trial-Salt (Short Bold)	Completed
		-,-	-,-	NGPGR CSSRS collaborated Trial	Completed
		-,-	-,-	Induction of salt tolerance in rice through mutagenesis	Completed
		-,-	-,-	Advance Breeding Materials	Completed
		-,-	-,-	Germplasm maintenance block	Completed
12003 Plan	<i>Kharif</i>	-,-	-,-	Large Scale Varietal Trial- Salt (ST-1) Ubhrat	Completed
		-,-	-,-	Small Scale Varietal Trial- Salt (Short Bold) Ubhrat	Completed
		-,-	-,-	Small Scale Varietal Trial (ML-Fine)	Completed
		-,-	-,-	Small Scale Varietal Trial (LS-I) Ubhrat	Completed
		-,-	-,-	Small Scale Varietal Trial (LS-II) Ubhrat	Completed
		-,-	-,-	AVT-1 NIL CoastaSalinity	Completed
		-,-	-,-	IVT-CSTVT	Completed
		-,-	-,-	AVT-1 CSTVT	Completed
		-,-	-,-	AVT-1 NIL YC (Coastal Location)	Completed
		-,-	-,-	AVT-1 NIL YC (Normal location)	Completed
		-,-	-,-	Large Scale Varietal Trial- Salt	Completed

				(ST-1) Danti	
		-,-	-,-	Small Scale Varietal Trial- Salt (Short Bold) Danti	Completed
		-,-	-,-	Small Scale Varietal Trial (LS-I) Danti	Completed
		-,-	-,-	Small Scale Varietal Trial (LS-II) Danti	Completed

Details of seed production (2018-19)

Crop	Season	Type of seed	Area (ha)	Production (kg)
Paddy	Kharif	Certified (Jaya)	1.20	3710
	Kharif	Certified (GNR-3)	2.00	7630
	Kharif	Foundation (GNR-5)	0.45	2520

➤ **Year wise No. of Recommendation (Last five year)**

Budget Head	Research Sub-Committee	Year				
		2013-14	2014-15	2015-16	2016-17	2017-18
12027	NRM	1	-	1	1	1
12003	Crop improvement	-	-	-	1	-
5003	Crop improvement	-	-	1	-	1
5025	NRM	1	-	2	-	1

➤ **Total Receipt (Last five year)**

Year wise achievements (Scheme wise):

1. **Office Name** : Coastal Soil Salinity Research Station, Soil and water Management Research Unit, N.A.U., Navasri
2. **Scheme name** : Strengthening of salinity research
3. **Non Plan /Plan** : Plan
4. **Budget Head** : 12027

5.	Achievement			
	Year	No. of Experiment		Achievements
		Proposed	Conducted	
	2013-14	5	5	Feasibility study on use of aquaculture effluent as irrigation water for <i>Salicornia (S. brachiata Roxb.)</i> The brackish water aquaculture farmers of South Gujarat heavy rainfall zone (AES- IV) are advised to grow salicornia on the waste land available around the ponds. Further, they are recommended to use aquaculture effluent water for irrigating salicornia along with application of fertilizer @ 250-75-50 NPK kg/ha. By adopting these practices, they can get higher fresh biomass yield and net return.
	2014-15	6	6	--
	2015-16	4	4	Study on effect of land configuration and integrated nutrient management on productivity of different

				<p>varieties of sorghum (<i>rabi</i>) in coastal area of South Gujarat</p> <p>Farmers of coastal areas (AES-IV) of South Gujarat heavy rainfall zone intended to grow sorghum during <i>rabi</i> season are advised to prefer variety GJ-38. Further, they are advised to sow their crop on raised bed (bed width- 0.6 m and furrow depth- 15-20 cm) and apply 100% RDF (80:40:00 NPK kg/ha + 10 t FYM/ha). By adopting these practices, they can get higher yield and net realization.</p>
	2016-17	5	5	<p>Effect of irrigation and variety on fodder sugar beet grown under coastal salt affected soils</p> <p>The farmers of coastal areas of south Gujarat heavy rainfall zone (AES-IV) to grow fodder sugar beet (paired row: 20 cm x 40 cm (2 row) x 60 cm, bed width: 60 cm, furrow top width: 40 cm) during <i>rabi</i> season are advised to prefer <i>var.</i> JK Kuber. Further, they are advised to apply thirteen irrigations <i>i.e.</i>, first irrigation just after sowing, second irrigation at 10 DAS and remaining 11 irrigation at an interval of 10 to 12 days. By adopting these practices, they can get higher yield and net returns.</p>
	2017-18	5	5	<p>Study the N and K requirement of beet root grown on coastal soils of South Gujarat</p> <p>The farmers of coastal areas of South Gujarat Heavy Rainfall Agro-climatic Zone growing beet root (paired row: 20 cm x 45 cm x 75 cm, bed width: 75 cm, furrow top width:45 cm) during <i>rabi</i> season are recommended to apply 150 kg N and 60 kg K₂O/ha in addition to common application of 60 kg P₂O₅ and 10 t bio compost/ha for getting higher yield and net return.</p>

6. **Scheme name** : Strengthening of paddy research

7. **Non Plan /Plan** : Plan

8.	Achievement				
	Year	No. of Experiment		Contribution for variety released	Achievements
		Proposed	Conducted		
	2013-14	5	5	--	--
	2014-15	6	6	--	--
	2015-16	7	7	--	--
	2016-17	8	8	GNR-7	--
2017-18	8	8	--	--	

9. **Budget Head** : 12003

10. **Scheme name** : Project for research in paddy

11. **Non Plan /Plan** : Non-Plan

12. **Budget Head** : 5003

14.	Achievement				
	Year	No. of Experiment		Contribution for variety released	Achievements
		Proposed	Conducted		
2013-14	4	4	--	--	

	2014-15	4	4	--	--
	2015-16	2	2	GNR-5	--
	2016-17	2	2	--	--
	2017-18	3	3	GR-15	--

13. **Scheme name** : Project for research in agronomy and crop husbandry

15. **Non Plan /Plan** : Non Plan

16. **Budget Head** : 5025

17.	Achievement			
	Year	No. of Experiment		Achievements
		Proposed	Conducted	
	2013-14	5	5	<p>Crop sequence study under raised and sunken bed configuration on coastal salt affected soils of South Gujarat</p> <p>The farmers of coastal area of South Gujarat (AES-IV) are recommended to follow raised bed (top width: 1.8m) and sunken bed (bottom width : 3.6 m) configuration and grow brinjal on raised bed (<i>kharif-rabi</i>) and paddy (<i>kharif</i>)- wheat (<i>rabi</i>) in sunken bed for realizing higher yield and net income as compared to paddy – wheat sequence. Alternatively, they are advised either to grow castor (<i>kharif-rabi</i>) and paddy (<i>kharif</i>) - wheat (<i>rabi</i>) in the same land configuration or sole brinjal during <i>kharif-rabi</i> seasons on flat bed.</p>
	2014-15	3	3	--
	2015-16	3	3	<p>Effect of manuring in organically grown garlic in coastal area of South Gujarat</p> <p>Farmers of coastal areas of south Gujarat heavy rainfall zone (AEV-IV) can grow organic garlic profitably during <i>rabi</i> season with apply 50 kg N/ha through bio-compost as basal and 50 kg N/ha through castor cake at 40 DAT. Adoption of organic nutrient management systems also improve soil properties.</p> <p>Effect of irrigation and date of sowing on seed yield and components of <i>Salicornia</i></p> <p>The farmers of coastal area of south Gujarat (AEV-IV) having waste lands adjoining sea coast are advised to sow salicornia during the 3rd week of June on coastal salt affected waste land with use of sea water for irrigation at an interval of 11 to 13 days after cessation of monsoon. By adopting these practices, they can get higher yield and net income.</p>
2016-17	4	4	--	
2017-18	4	4	<p>Response of <i>Bt.</i> cotton hybrids to integrated nutrient management under coastal salt affected soil condition</p> <p>The <i>Bt.</i> cotton (GCH-8 (BG-II)) growing farmers of coastal areas of South Gujarat Heavy Rainfall Agro-climatic Zone are recommended to apply 10 t bio compost/ha and 300 kg N/ha in</p>	

				five equal splits at 30, 60, 75, 90 and 105 DAS for getting higher seed cotton yield and net return.

Information on Research Station

Name of centre	:	Main Rice Research Centre, SWMRU, Navsari Agricultural University, Navsari
Year of Establishment	:	1982
Mandate of the centre	:	<ol style="list-style-type: none"> 1. To develop high yielding paddy varieties suitable for the region (duration, quality and resistant to biotic and abiotic stresses) 2. To develop package of practices for obtaining higher yield and more net return. 3. To identify suitable Plant protection measures for paddy. 4. To explore the Integrated Pest and Disease Management Practices for major insect pest and diseases of the area.

➤ Details of land at the centre (ha.)

Cultivated	Irrigated	Non-irrigated	Area under Infrastructure	Total
9.0	9.0	0	1.2	10.2

➤ Budget Provision (2018-19) :

Funding Agency	Title of Scheme / project	Budget Head	Grant Sanction (Rs. in Lakhs)	Balance grant (1.1.2019)	% use Grant
Plan	Genetic enhancement of niche crops of South Gujarat through conventional and biological approaches	12946-C	7.00	0.83	88.1
Non- Plan	National Agricultural Research Project	7081-A	100.44	18.31	81.8
Non- Plan	Strengthening Research in Paddy	5003	9.12	1.84	79.8

ICAR	A.I.C.R.P. on Rice for Navsari centre	2056	74.37	60.18	19.1
Other Agency	Paddy hybrids testing- Rabi-summer	18133	12.29	7.92	35.6
Other Agency	Hybrid Rice Coded SAU Trial	18147	32.04	28.32	11.6
Other Agency	To test the bio efficacy of ME 5382 2% granules against stem borer and brown plant hoppers on rice	18154	4.23	2.29	45.9
Other Agency	To test the bio efficacy of ME 5382 10% SC against stem borer and brown plant hoppers on rice	18155	5.03	2.80	44.3

➤ **Details of man power (01/01/2019)**

Funding Agency	Name of employee	Designation	Pay scale	B.H.
Plan	Nil	Nil	Nil	12946-C
Non- Plan	Dr. P. B. Patel	Associate Professor (Pl. Breeding)	37400- 67000-9000	7081-A
	Dr. J. M. Patel	Associate Professor (Agronomy)	37400- 67000-9000	7081-A
	Dr. P. D. Goghari	Associate Professor (pl. Patho)	37400- 67000-9000	7081-A
	Dr. Ajay V. Narwade	Associate Professor (Pl. Physiology)	37400- 67000-9000	7081-A
	Vacant	Associate Professor (Ag. Engineering)	37400- 67000-9000	7081-A
	Vacant	Associate Professor (Economics)	37400- 67000-9000	7081-A
	Mr. K. V. Makwana	Assistant Professor (Pl. Pathology)	15600-39100-7000	7081-A

	Vacant	Assistant Professor (Pl. Breeding)	15600-39100-7000	7081-A
	Vacant	Assistant Professor (Agronomy)	15600-39100-7000	7081-A
	Vacant	Assistant Professor (Pl. Breeding)	15600-39100-7000	7081-A
	Dr. Kedarnath	Assistant Professor (Ento)	15600-39100-7000	7081-A
	Mr. A. L. Chalodia	Assistant Professor (Ag. Engineering)	15600-39100-7000	7081-A
	Mr. D. G. Chapaneri	Agril. Assistant	39900-126600	7081-A
	Miss. A. M. Patel	Agril. Assistant	29200-92300	7081-A
	Mr. M. D. Patel	Demonstrator (Lb. Tech)	29200-92300	7081-A
	Vacant	Jr. Clerk	29200-92300	7081-A
	Vacant	Peon	29200-92300	7081-A
	Mr. D. G. Patel	Jeep driver	29200-92300	7081-A
Non- Plan	Mr. S. K. Ahir	Agril. Supervisor	29200-92300	5003
	Mrs. M. V. Patel	Agril. Assistant	29200-92300	5003
ICAR (A.I.C.R.P. on Rice)	Dr. V.A. Patil	Assistant Professor (Plant Pathology)	15600-39100-7000	2056
	Mr. N. K. Kavadi	Assistant Professor (Entomology)	15600-39100-7000	2056
	Dr. P. M. Mistry	Assistant Professor (Plant Breeding)	15600-39100-7000	2056
	Dr. D. A. Patel	Assistant Professor (Agronomy)	15600-39100-7000	2056

➤ **Scheme wise details of experiments (2018-19)**

A. Kharif

Budget Head	Res. Sub-Committee	Year of approval	Title of experiment	Status
12946-C (Plan)	Crop Improvement	2017-18	1. Large Scale Variety Trial – Early-Coarse	Completed
			2. Large Scale Variety Trial – Early-Medium	
			3. Large Scale Variety Trial – Early-Fine	
			4. Large Scale Variety Trial –ML-F	
			5. Large Scale Variety Trial –ML-M & C	
			6. Large Scale Varietal Trial-Biofortified	
			7. Small Scale Varietal Trial-Biofortified	
			8. Small Scale Varietal Trial - Aromatic	
7081-A (Non plan)	Crop Improvement	2017-18	1. Large Scale Variety Trial – Aromatic	Completed
			2. Small Scale Varietal Trial – Fine-I	Completed
			3. Small Scale Varietal Trial – Early-Coarse	Completed
			4. Small Scale Varietal Trial - MS -I	Completed
			5. Small Scale Varietal Trial- Fine-II	Completed
			6. Small Scale Varietal Trial – Long Bold-I	Completed
			7. Small Scale Varietal Trial – MS-II	Completed
			8. Large Scale Varietal Trial – Aerobic	Completed
			9. Large Scale Varietal Trial – Salt (ST 1)	Completed
			10. Small Scale Varietal Trial – LS-I	Completed
			11. Large Scale Hybrid Rice Trial (Private Company)	Completed
			12. Preliminary Evaluation Trial – Biofortified	Completed
			13. Preliminary Evaluation Trial – M & C	Completed

			14. International Irrigated Rice Observational Nursery- Module 1 (IIRON-1)	Completed
			15. Green Super Rice Project- Irrigated Lowland nursery (GSR-IRLL-2018)	Completed
			16. District Trial – Salt	Completed
	Plant Protection	2017-18	17. Survey of rice diseases during <i>kharif</i> season	Completed
			18. Screening of advance breeding materials against rice diseases	Completed
			19. Seasonal infestation of insect pest complex of rice at MRRC farm, Navsari and seven districts of paddy grown area	Completed
			20. Screening of various cultures of Nawagam for important pests of paddy at MRRC farm, Navsari.	Completed
5003 (Non plan)	Plant Protection	2017-18	1. Screening of breeding genotypes against important diseases of rice in natural field condition.	Completed
	Plant Protection	2017-18	2. Natural field incidence of rice diseases in yield evaluation genotypes with preventive plant protection measures	Completed
	Natural Resources Management	2015-16	3. Soil test based fertilizer recommendation for targeted yield of rice	Continue
	Natural Resources Management	2017-18	4. Effect of integrated nutrient management on <i>rabi</i> crops in rice based crop sequences in clay soils of South Gujarat	Continue
2056 (ICAR)	Crop Improvement	2017-18	1. Initial Varietal Trial – Late (IVT-late)	Completed
			2. Advanced Variety Trial-1-Late(AVT-1 Late)	Completed
			3. Initial Varietal Trial – ASG	Completed
			4. Initial Varietal Trial – Aerobic	Completed
			5. Initial Varietal Trial – biofort	Completed
			6. Advance Varietal Trial 1 – biofort	Completed

			7. Initial Varietal Trial – IM	Completed
			8. Advance Varietal Trial 1 – IM	Completed
			9. Initial Varietal Trial – IME	Completed
			10. Initial Varietal Trial – MS	Completed
			11. Advance Varietal Trial 1 – MS	Completed
			12. Advance Varietal Trial 2 – MS	Completed
			13. Initial Hybrid Rice Trial- ME(IHRT-ME)	Completed
			14. Initial Hybrid Rice Trial- IM (IHRT-M)	Completed
			15. Advanced Variety Trial-1- Aerobic	Completed
			16. Advanced Variety Trial-2- Aerobic	Completed
			17. Advance Varietal Trial 1 – IME	Completed
			18. Advance Varietal Trial 2 – IME	Completed
	Natural Resources Management	2017-18	19. Nutrient response trials on selected AVT-2 rice cultures under high and low input management [AVT 2 – IME(TP)]	Completed
			20. Nutrient and Weed management for higher productivity in different rice establishment methods	Continue
			21. Integrated Pest Management – On farm management of insects, diseases and weeds IPMs (Entomology, Pathology and Agronomy) - Special collaborative trial	Completed
			22. Analysis of long term meteorological data (temperature and rainfall) for identifying the reasons for yield reduction in different rice based cropping systems	Completed
	Plant Protection	2017-18	23. Multiple Resistance Screening Trial (MRST)	Completed
			24. Pesticides Compatibility Trial (PCT)	Completed
			25. Botanical Insecticide Evaluation Trial (BIET)	Completed
			26. Stem borer Screening Trial (SBST)	Completed
			27. Monitoring of pest and their natural	Completed

			enemies (MPNE)	
			28. Monitoring of pest and their natural enemies under Light Trap (LT)	Completed
			29. Effect of Planting Date on Pest Incidence (EPDP)	Completed
			30. National Screening Nursery/2	Completed
			31. Leaf Folder Screening Trial	Completed
			32. Screening for Bacterial Blight resistance (NHSN)	Completed
			33. Screening for Sheath Rot resistance (NHSN)	Completed
			34. Screening for Bacterial Blight resistance (DSN)	Completed
			35. Screening for Sheath Rot resistance (DSN)	Completed
			36. Screening for Bacterial Blight resistance(NSN-1)	Completed
			37. Screening for Sheath Rot resistance (NSN-1)	Completed
			38. Screening for leaf blast resistance (NSN-1)	Completed
			39. Field Monitoring of Virulences: <i>Xanthomonas oryzae</i> pv. <i>oryzae</i>	Completed
			40. Field Monitoring of Virulences: <i>Pyricularia Patna /Dhangain/Dhangaina oryzae</i>	Completed
			41. Evaluation of Fungicides against Location Specific Diseases	Completed
18147 (Other Agency)	Crop Improvement	2015-16	1. Hybrid Rice Coded SAU Trial	Completed
18154 (Other Agency)	Plant Protection	2016-17	1. To test the bio efficacy of ME 5382 2% granules against stem borer and brown plant hoppers on rice	Completed

18155 (Other Agency)	Plant Protection	2016-17	1. To test the bio efficacy of ME 5382 10% SC against stem borer and brown plant hoppers on rice	Completed
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B. Rabi

Budget Head	Res. Sub-Committee	Year of approval	Title of experiment	Status
7081-A (Non plan)	Plant Protection	2017-18	1. Survey of rice diseases during Summer- 2018	Continue
			2. Seasonal infestation of insect pest of paddy in Summer season	Continue
5003 (Non plan)	Natural Resources Management	2017-18	1. Effect of integrated nutrient management on <i>rabi</i> crops in rice based crop sequences in clay soils of South Gujarat	Continue
18133 (Other Agency)	Crop Improvement	2015-16	1. Paddy hybrids testing- <i>Rabi</i> -summer	Continue
2056 (ICAR)	Natural Resources Management	2017-18	1. Nutrient and Weed management for higher productivity in different rice establishment methods	Continue

➤ **Details of seed production (2018-19) :-**

Crop	Season	Type of Seed (Breeder/Foundation etc.	Area (ha.)	Production (kg)	Productivity (Kg/ha)
Rice	<i>Kharif</i>	NAUR-1 (Breeder)	0.20	1000	5000
		GNR-2 (Breeder)	0.20	1050	5250
		GNR-3 (Breeder)	0.30	1500	5000
		GNR-3 (Foundation)	1.60	7980	4988
		GNR-4 (Breeder)	0.20	900	4500
		GNR-5 (Breeder)	0.20	1000	5000
		GNR-7 (Breeder)	0.10	350	3500
		GNR-7 (T.F.)	0.20	1400	7000
		GR-15 (Breeder)	0.20	900	4500
Rice	<i>Rabi</i>	GNR-3 (TF)	0.40	2100	5250
		GNRH-1 (TF)	0.20	300	1500

➤ **Year wise No. of Recommendation (Last five year) :-**

Budget Head	Research Sub-Committee	Year				
		2013-14	2014-15	2015-16	2016-17	2017-18
7081-A & 12946-C	Crop Improvement	-	1	3	1	2
7081-A & 5003	Natural Resources Management	2	-	-	2	2
7081-A & 12946-C	Plant Protection	-	-	1+2	1+2	1+3
7081-A	Basic Science	1	1	-	-	-