

Information on Research Station:

Name of the Centre	Main Sugarcane Research Station, Navsari Agricultural University, Navsari
Year of Establishment	1968-69
Mandate of the Centre	Are As under
	<ol style="list-style-type: none">1. To carry out effectively the sugarcane improvement research programme through multi-disciplinary approach.2. To evolve high yielding and high sucrose sugarcane varieties suitable for region.3. To exchange information and supply of improved genotypes and conduct field trials throughout the sugarcane growing belts.4. To work out the agronomic requirement of new Sugarcane genotypes.5. To evaluate of sugarcane based cropping system.6. To identify integrated management measures for sugarcane pests.7. To Screen new sugarcane genotypes against major disease and insect pests.8. Screening of various varieties for jaggery including research on jaggery making and storage.9. To carryout time-bound, result oriented research on various priority problems.10. To provide technical services such as advisory, consultative extension and information services as well as training facilities to sugarcane farmers and technical personals of sugar industries.

Details of Land at the Centre (ha):

Cultivated	Irrigated	Non-Irrigated	Area under Infrastructure	Total
26.34	26.34	-	3.25	29.59

**Budget Provision: Plan / Non Plan / ICAR / Other Agency:
Details of Scheme (2017-18):**

Funding Agency	Title of Scheme/Project	Budget Head	Name of PI	Year of Starting
Plan	Strengthening Research in Sugarcane	12018	Dr.S.C.Mali	2012
Plan	Breeding Sugarcane for Draught Tolerance and Adaptation to Climate Change	12035	Dr.S.C.Mali	2014
Non Plan	Research on Sugarcane	5011	Dr.S.C.Mali	1985
ICAR	All India Co-Ordinated Research Project on Sugarcane	2011-1	Dr.S.C.Mali	1979
Other Agency	Tissue Culture Project	18011-5	Dr.S.C.Mali	1996
GOI	-	-	-	-

Details of Manpower at the centre (01.04.2018):

Funding Agency	Name of the employee	Designation	Pay Scale	B.H
Plan	Dr. S. C.Mali	Research scientist (Sugar)	37400-67000 GP-9000	12018
Plan	Dr.Jagdish Udutha	Asstt.Res.Scientist	15600-39100 GP-6000	12035
	Shree Ganesh	Senior Research fellow	25000/- fix	12035
Non-Plan	vacant	Research scientist (Agronomy)	37400-67000 GP-10000	5011
	Shri. R.I.Parmar	Agril Supervisor	39900-126600	5011
	Shri. P.S.Kokni	Agril Supervisor	39900-126600	5011
	Shri. B.B.Patel	Agril.Asstt.	39900-126600	5011
	Shri. N.C.Patel	Agril.Asstt.	39900-126600	5011
	Shri. N.B.Patel	Agril.Asstt.	39900-126600	5011
	Shri. R.B.Rohit	Agril.Asstt.	39900-126600	5011
	Smt.K.A.Patel	Agril.Asstt.	19950 Fix	5011
	Ku.D.H.Patel	Agril.Asstt.	19950 Fix	5011
	Shri.H.U.Solanki	Senior Clerk	25500-81100	5011
	Shri. V.J.Kharadi	Junior Clerk	19900-63200	5011
	Shri.H.D.Patel	Tractor Driver	29200-92300	5011
	Shri R.B.Nai	Senior Clerk	25500-81100	5011
	Shri. R.K.Patel	Peon	15000-47600	5011
	vacant	Agril Supervisor	29200-92300	5011
	vacant	Lab Boy	14800-47100	5011
	vacant	Peon	14800-47100	5011
ICAR	vacant	Asso.Res.Scientist	15600-39100 GP-8000	2011-1
	Dr.S.N.Gajjar	Asstt.Res.Scientist	15600-39100 GP-7000	2011-1
	Shri.D.K.Patel	Agril. Officer	53100-167800	2011-1
	Shri.V.D.patel	Agril.Asstt.	39900-126600	2011-1
Other Agency	Shri.A.B.Patel	Lab.Boy (Tissue Culture)	6300/- Fix	18011-5
GOI	-	-	-	-

Scheme wise Details of Experiments (2018-19)

Funding Agency	B.H.	Season	Title of Experiment
Plan	12018	Kharif, Rabi & Summer	Strengthening Research in Sugarcane.
			Seed Production Programme
	12035	Kharif, Rabi & Summer	Breeding Sugarcane for Draught Tolerance and Adaptation to Climate Change
			State Varital Trial -I (Early + Midlate)
			State Varital Trial -II (Early + Midlate)
Non-Plan	5011	Kharif, Rabi & Summer	State Varital Trial -I (Early + Midlate)
			State Varital Trial -II (Early + Midlate)
			State Varital Trial Ratoon (Early + Midlate)
			Demonstration , Seed Production Programme of Sugarcane & Rice
ICAR	2011-1	Kharif, Rabi & Summer	Breeding Trials : Initial Varital Trial (Early + Midlate)
			Advance Varital Trial- I (Early + Midlate)
			Advance Variatal Trial -II (Early + Midlate)
			Advance Varital Trial Ratoon (Early + Midlate)
			Fluff Supply Programme, Clonal Stage I , II, III &IV
			Pathology Trials : Identification of Pathotypes in red rot pathogen
			Evaluation of pre -zonal / IVT / Zonal varieties / genotypes for resistance to red rot.
			Evaluation of zonal varieties for smut resistance.
			Reproduction of Sugarcane wilt syndrome and screening for wilt resistance.
			Evaluation of pre-zonal / IVT / zonal varieties / genotypes for resistance to yellow leaf disease.
			Survey of Sugarcane diseases naturally occurring in the area on important Sugarcane varieties.
			Assessment of elite & ISH genotypes for resistance to red rot.
GOI	-	-	-

All the experiments allotted for the year 2018-19 discipline wise are successfully conducted at Main Sugarcane Research Station, Navsari Agricultural University, Navsari Dandi, Road Farm.

Year Scheme wise Achievements (2017-18):

1. Recommendations:

Funding Agency	B.H.	Year	Achievement	Remarks
ICAR	2011-1	2017-18	Use of plant growth regulators for enhanced yield and quality of sugarcane Sugarcane growers of South Gujarat Heavy Rainfall Agro-climatic Zone are recommended to plant sugarcane sets after overnight soaking in water and apply foliar spray of GA ₃ (35ppm) at 90, 120 and 150 DAP for getting higher remunerative production.	For farming community
			Impact of integrated application of organic and inorganic in improving soil health and sugarcane productivity Sugarcane growers of South Gujarat Heavy Rainfall Agro-climatic Zone are recommended to apply 10 t FYM ha ⁻¹ with biofertilizer (<i>Acetobacter</i> + PSB @ 12.5 lit ha ⁻¹) and inorganic fertilizers as per soil test based values as well as zinc sulphate 25 kg ha ⁻¹ before planting of sugarcane for getting higher cane yield, net return and sustaining soil fertility.	For farming community
		1	Use of plant growth regulators for enhanced yield and quality of Sugarcane Overnight soaking of sugarcane sets in 50 ppm ethereal could be done before planting for getting higher cane yield of sugarcane in South Gujarat heavy rainfall zone.	Scientific community
		2	Screening of sugarcane varieties for mealy bug resistance Sugarcane genotypes viz., Co 10015, CoN 05071 and CoN 14072 were found less susceptible against mealy bugs.	Scientific community
		3	Screening of sugarcane varieties for red rot resistance Sugarcane varieties viz., Co 10005, Co 10006, Co 10026, Co 10027, CoT 10367, Co 09009, Co 10031, CoT 10368, CoT 10369, PI 10131, CoN 14071, CoN 14072, CoN 14073 and CoN 14074 were found moderately resistant to red rot under artificial inoculation condition.	Scientific community
		4	Screening of Sugarcane varieties for Whip smut resistance Sugarcane varieties viz., Co 10005, Co 10006, CoT 10366, CoT 10368, CoT 10369, CoVC 10061, PI 10132, CoN 14071, CoN 14072, CoN 14073 and CoN 14074 showed resistant reaction against whip smut disease under artificial inoculation condition.	Scientific community
Non-Plan	5011	2017-18	Intercropping and plant geometry in relation to mechanization in sugarcane Sugarcane growers of South Gujarat Heavy Rainfall Agro-climatic Zone are recommended to plant sugarcane in twin row (30-120-30 cm) with intercropping of four rows of onion in 120 cm spacing to fetch higher remunerative production. The practice is suitable for mechanization in sugarcane cultivation.	For farming community

**Photographs:
Photographs:**

1. Office/Gate-Board



2. Experiment (New varieties/MIS/Intercrop)



3. Infra structure


