

**Information of Niger Research Station,  
Navsari Agricultural University, Vanarasi**

<b>Name of centre</b>	Niger Research Station, N. A. U., Vanarasi
<b>Year of Establishment</b>	1992
<b>Mandate of the centre</b>	<ul style="list-style-type: none"> <li>❖ Development of high yielding varieties/hybrids with tolerance to major biotic and abiotic stresses</li> <li>❖ Development of suitable production and protection technologies with enhanced input use efficiency and profitability</li> <li>❖ Collection, maintenance and evaluation of germplasms of Niger.</li> <li>❖ Maintenance and seed production of released varieties of Niger.</li> <li>❖ To conduct front line demonstration/TSP demonstration with new varieties and better production technologies.</li> </ul>

**Details of land at the centre (ha.)**

<b>Cultivated</b>	<b>Irrigated</b>	<b>Non-irrigated</b>	<b>Area under Infrastructure</b>	<b>Total</b>
8.21 ha	3.00 ha	5.21 ha	1.00 ha	9.21 ha

**Details of Scheme (2021-22)**

<b>Funding Agency</b>	<b>Title of scheme/Project</b>	<b>Budget Head</b>	<b>Name of PI</b>	<b>Year of Starting</b>
<b>Plan</b>	Scheme for Research in Niger	12009-5	Dr. P. M. Mistry	1988
<b>Plan</b>	Agronomic Research on Rain fed Dry Farming Crops under Tribal area of south Gujarat.	12129	Associate Research Scientist (Br)	1997
<b>ICAR</b>	All India Coordinated Research Project on Niger	2052	Dr. P. K. Jagtap	2009
<b>ICAR</b>	Tribal Sub-Plan (TSP)	2076	Assistant Research Scientist	2009
<b>ICAR</b>	Front line demonstration (FLD)	2704-45		2009
<b>GOI</b>	DBT-Niger Network Project (ICAR)	18212-NF		2020

**Details of manpower at the centre (29/07/2021)**

<b>Funding Agency</b>	<b>Name of employee</b>	<b>Designation</b>	<b>Pay scale</b>	<b>Budget Head</b>
<b>Plan</b>	Dr. P. M. Mistry	Associate Research Scientist (Br)	79800-211500 (level-12)	12009-5
	Dr. S. P. Deshmukh	Assistant Research Scientist	57700-182400 (level-10)	
	Shri B. R. Ahir	Senior Clark	25500-81100 (level-4)	
	Vacant	Junior Clark	19900-63200 (level-2)	
<b>ICAR</b>	Dr. P. K. Jagtap	Assistant Research Scientist	57700-182400 (level-10)	2052
	Ms. Tanviben N. Chauhan	Field man	19950 (Fix Pay)	

## Scheme wise detail of experiments (2021-22)

Funding Agency	Budget Head	Season	Crop	Title of the Experiment
Plan	12009-5 (Scheme for Research in Niger)	<i>kharif</i>	Niger	Evaluation of Station niger germplasms
				Preliminary Evaluation Trial of Niger
				SSVT/ LSVT on Niger
				Evaluation of progeny rows of polycross
				Screening of niger germplasms
			Millets	LSVT/ MLT on Nagli
				LSVT/ MLT on Banyard millet
			Tuber	SSVT on Elephant foot yam
			Seed	Seed production on Niger, Paddy, Sunhemp etc.
Plan	12129 (Agronomic Research on Rain fed Dry Farming Crops under Tribal area of south Gujarat.)	<i>kharif</i>	Paddy	Rain fed Transplanted Rice (LSVT RFTP)
				Rain fed Transplanted Rice (SSVT RFTP)
				Seed production on Soybean, Paddy, Nagli etc.
		<i>kharif</i>	Soybean	Large Scale Varietal Trial (Amreli) on soybean
				Small Scale Varietal Trial (Amreli) on soybean
		<i>semi rabi</i>	Sesame	LSVT <i>Semi rabi</i>
		<i>summer</i>		LSVT <i>Summer</i>
		ICAR	2052 (AICRP on Niger)	<i>kharif</i>
Maintenance of AICRP germplasms (Selfing)				
Optimization of nutrient requirement for AVT genotypes				
ICAR	2076 (TSP on Niger)	<i>kharif</i>	Niger	Demonstration of niger crop under TSP in South Gujarat region.

<b>ICAR</b>	2704-45 (FLD's on Niger)	<i>kharif</i>	Niger	Front Line Demonstrations on niger crop in South Gujarat region.
<b>GOI</b>	18212/NF (DBT-Niger Network Project)	<i>kharif</i>	Niger	Exploitation of genetic and genomic resources for improvement of niger ( <i>Guizotia abyssinica</i> L.F. Cass) through breeding and biotechnological tools

### Seed Production :

Sr. No.	Season	Crop	Variety	Stage of Seed	Area in Acre
1.	<i>kharif</i>	Paddy	GR-7	Certified	4.00
2.			GR-18 (Devli kolum)	Truthful	1.00
3.			GNR-6	Truthful	1.00
4.		Finger millet (Nagli)	GN-9	Truthful	2.00
5.		Soybean	KDS-344	Truthful	0.40
6.		Niger	GN-2	Breeder	1.00
7.			GNNIG-3	Breeder	1.00
8.	<i>rabi</i>	Pulses	Gram GJG-5	Certified	1.00
9.			Green gram GM-6	Truthful	1.00
10.		Sunhamp	Local	Truthful	4.00

### Infrastructure Facilities Available:

1.	Building -4 : Office Building, Quarter, Seed Processing Plant, Gowdons,
2.	Farm land including irrigation facility, Total-9.21 ha land
3.	Important farm equipments: Plough, rotary, thresher, farm tools and Implements etc.
4.	Important laboratory equipments: BOD Incubator, Microscope, Laboratory Analytical Electronic Balances
5.	Vehicle: Jeep-1, Tractor-1 and Power tiller-1, Motorcycle -1

## Scheme wise Achievements:

Scheme/Budget Head	Achievements
<b>12009-5 (Plan)</b> <b>Scheme for Research in Niger</b>	<ul style="list-style-type: none"><li>❖ Released niger variety GNIG-4 for South Gujarat heavy rainfall zone in joint agresco meeting of SAUs and waiting for approval in SVRC and CVRC</li><li>❖ Research methodology of line sowing and use of improved varieties/bio pesticide/bio fertilizer (concept of organic farming) in niger was enforced through several demonstrations</li><li>❖ Contributed in the development of nagli variety</li><li>❖ Seed Produced: Paddy (GR-7): 1170 kg, Niger : 224.500 kg</li></ul>
<b>12129 (Plan)</b> <b>Agronomic Research on Rainfed Dry Farming Crops under Tribal area of south Gujarat.</b>	<ul style="list-style-type: none"><li>❖ Soybean variety Phule Agrani (KDS-344) is found to suitable for South Gujarat heavy rainfall zone after its introduction and evaluation for last three years which is to be endorsed in future.</li><li>❖ Contributed in the development of 2 paddy varieties</li><li>❖ Seed Produced: Paddy (GMR-6): 1185 kg, Soybean : 258 kg</li></ul>
<b>2052 (ICAR)</b> <b>AICRP on Niger</b>	<ul style="list-style-type: none"><li>❖ Creation the genetic variability through gamma rays in niger in coordination with BARC, Trombay and maintained for future study.</li><li>❖ Collected local collections of niger from tribal &amp; hilly areas of GJ and MS states and its maintenance</li><li>❖ Development of population through polycrosses and maintenance of around 300 germplasms of niger at centre</li><li>❖ Research methodology of line sowing and use of improved varieties/bio pesticide/bio fertilizer (concept of organic farming) in niger was enforced under Tribal Sub Plan and FLD's beneficiaries through several demonstrations</li><li>❖ Nominated total 12 entries for coordinated varietal trial in AICRP Niger</li></ul>