

**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 (2026-27)**

<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. K. Jagtap Unite Head & Asso. Res. Scientist (Br)	1988
<b>Plan</b>	Agronomic Research on Rain fed Dry Farming Crops under Tribal area of south Gujarat.	12129		1997
<b>ICAR</b>	All India Coordinated Research Project on Niger	2052		2009
<b>ICAR</b>	Tribal Sub-Plan (TSP)	2076		2009
<b>ICAR</b>	Front line demonstration (FLD)	2704-45		2009
<b>GoI</b>	DBT-Niger Network Project (ICAR)	18212-NF		2020
<b>GoI</b>	Seed hub on Niger under NMEO-OS (ICAR)	2156-(RF)		2024

**Details of manpower at the centre (30/04/2026)**

<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. K. Jagtap	Associate Research Scientist (Br)	131400-217100 (level-13A)	12009-5
	Dr. A. N. Lad	Assistant Research Scientist	57700-182400 (level-10)	
	Shri. J. R. Padhiyar*	Senior Clark	25500-81100 (level-4)	
	Shri M. A. Rathod	Junior Clark	19900-63200 (level-2)	
<b>ICAR</b>	Vacant (Dated: 10/07/2025)	Assistant Research Scientist	57700-182400 (level-10)	2052
	Ms. Tanviben N. Chauhan	Field Men (Agriculture Assistant)	25500-81100 (level-4)	

\*નોંધ : શ્રી. જી. આર. પઢિયાર, સીનીયર ક્લાર્કની કામગીરી તા. ૦૧/૧૦/૨૦૨૪ ના અસરથી કૃષિ વિજ્ઞાન કેન્દ્ર, ન.કૃ.યુ, વઘઈ ખાતે ફાળવવામાં આવેલ છે.

**Scheme wise detail of experiments (2026-27)**

<b>Funding Agency</b>	<b>Budget Head</b>	<b>Season</b>	<b>Crop</b>	<b>Title of the Experiment</b>
<b>Plan</b>	B.H. 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.			
<b>Plan</b>	B.H. 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>
<b>ICAR</b>	B.H. 2052 (AICRP on Niger)	<i>kharif</i>	Niger	Initial Advanced Varietal Trial (IAVT)
				Maintenance of AICRP germplasms (Selfing)
				Optimization of nutrient requirement for AVT genotypes
<b>ICAR</b>	B.H. 2076 (TSP on Niger)	<i>kharif</i>	Niger	Demonstration of niger crop under TSP in South Gujarat region.

<b>ICAR</b>	B.H. 2704-45 (FLD's on Niger)	<i>kharif</i>	Niger	Front Line Demonstrations on niger crop in South Gujarat region
<b>GoI</b>	B.H. 18212/NF (DBT-Niger Network Project)	<i>kharif / Rabi</i>	Niger	Exploitation of genetic and genomic resources for improvement of niger ( <i>Guizotia abyssinica</i> L.F. Cass) through breeding and biotechnological tools
<b>GoI</b>	B.H. 2156-RF Seed hub on Niger under NMEO-OS (ICAR)	<i>kharif / rabi</i>	Niger	To produce the quality seeds of Niger (Br.) and it's distribution

### Seed Production :

Sr. No.	Season	Crop	Variety	Stage of Seed	Area in Acre	
1.	<i>kharif</i>	Paddy	GNR-3	Foundation	5.00	
2.		Finger millet (Nagli)	GN-9	Foundation	2.00	
3.		Soybean	KDS-344	Truthful	0.40	
4.		Niger		GN-2	Breeder	1.00
5.				GNNIG-3	Breeder	1.00
6.	<i>rabi</i>	Pulses	Gram GJG-5	Certified	1.00	
7.			Green gram GM-6	Truthful	1.00	
8.		Sunhamp	Local	Truthful	4.00	
9.		Niger		GNNIG-4, GNNIG-5	Breeder	1.00

### 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 varieties GNNIG-3 and GNNIG-4 for South Gujarat heavy rainfall zone of Gujarat State through 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 (GNN-3): 6970 kg, Niger: 612 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: Soybean : 453 kg, Millets: 1096 kg, Sesame: 20 kg</li></ul>
<b>2052 (ICAR)</b> <b>AICRP on Niger</b>	<ul style="list-style-type: none"><li>❖ Developed &amp; released two niger varieties viz. GNNIG-4 (Kasturi) and GNNIG-5 (Aarohi) at National level through CVRC</li><li>❖ Received Best AICRP Center for the year 2023-24 and 2024-25 by ICAR-IIOR, Hyderabad, TS</li><li>❖ Created 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>