

## **Information on Research Station**

Name Of Centre	Regional Cotton Research Station, N.A.U., Maktampur, Bharuch
Year Of Establishment	1913
Mandate Of The Centre	To carryout cotton research activities for Asiatic cotton production, productivity and sustainability for the farmers of middle Gujarat cotton growing zone under rainfed conditions and seed production of cotton and pigeonpea.

## **Details of Land at The Center(ha.)**

Cultivated	Irrigated	Non-Irrigated	Area Under Infrastructure	Total
18.47	Nil	18.47	6.50	24.97

## **Details of Scheme (2017-18)**

Funding Agency	Title Of Scheme/Project	Budget Head	Name Of PI	Year of Starting
Plan	To Establish a Centre of Excellence for Cotton Research Bharuch	12009	Shri A.R.Patel	1988
	Genetic Enhancement of Niche Crop	12946/F	Shri A.R.Patel	2007
	Campus Development Programme on Campus,Cotton,Bharuch	12712/5C	Shri A.R.Patel	
Non Plan	Scheme For Research In Cotton Bharuch	5009	Shri A.R.Patel	1971
ICAR	Krushni Van, Bharuch	2009/04	Shri A.R.Patel	
	Conducting Trial of AICRP, Bharuch	2009/08	Shri A.R.Patel	
GOI	Nil	Nil	Nil	Nil
Other Agency	Gramin Krishi Mausam Seva, Bharuch	18925	Shri A.R.Patel	2005

## **Details of Manpower at the centre (31/03/2018)**

Funding Agency	Name of employee	Designation	Pay scale	B.H.
Plan	Mr.M.L.Patel	Assistant Research Scientist	15600-39100-7000	12009
	Mr.R.K.Patel	Assistant Research Scientist	15600-39100-7000	12009
Non Plan	Shri. A. R. Patel	I/C Assoc. Res. Sci.	15600-39100-7000	5009
	Shri. A. K. Patel	Agril. Sup.	39900-126600-0-0	5009
	Shri. R. M. Parmar	Agril. Sup.	39900-126600-0-0	5009

	Shri. S. M. Patel	Agril. Sup.	39900-126600-0-0	5009
	Shri. N. J. Maisuriya	Agril. Asstt.	39900-126600-0-0	5009
	Shri. T. S. Saiyad	Agril. Asstt.	19950-0-0	5009
	Shri.B.H.Dobariya	Agril. Asstt.	19950-0-0	5009
	Shri.J.P.Ukani	Agril. Asstt.	19950-0-0	5009
	Shri. R. R. Rao	Sr. Clerk	25500-81100-0-0	5009
	Shri. V.R.Rana	Jr. Clerk	19900-63200-0-0	5009
	Shri. C. D. Patel	Tr. Driver	29200-92300-0-0	5009
	Shri. H. D. Patel	Foreman Asstt.	25500-81100-0-0	5009
	Shri. P. S. Vasava	Lab boy	15000-47600-0-0	5009
	Smt. U. M. Patel	Peon	15000-47600-0-0	5009
ICAR	Nil	--	--	--
GOI	Nil	--	--	--
Other Agency	Dr.B.M.Mote	Research Associate	44000-Fix	18925
	Shri.D.P.Kamani	Met Observer	13200-Fix	18925

### Scheme wise detail of experiments (2017-18)

Funding Agency	B.H.	Season	Title of experiment	
Plan	12009	Kharif	<b>PLANT BREEDING TRIALS</b>	
			PB-1	Br.02(b) I.E.T. of <i>G. hirsutum</i> cotton.(Rainfed) N.T.
			PB-2	Br.03(b) P.V.T. of <i>G. hirsutum</i> cotton. C.Z.
			PB-3	Br.04(b) CVT of <i>G. hirsutum</i> cotton. C.Z.
			PB-4	Br.25a/b PHT of deshi hybrids under rainfed condition. N.T.
			PB-5	Br.32(b) I.E.T. of <i>G. herbaceum</i> cotton. N.T.
			PB-6	6b Niital Evaluation of compact genotype under rainfed condition. N.T.
			<b>ENTOMOLOGY TRIALS</b>	
			Pr. Ent.1a	Screening of breeding material for resistant to insect pests.
			Pr. Ent.2	Population dynamics of key pests of cotton to develop suitable forecasting model and Monitoring of bollworms through pheromone traps.
			<b>PLANT PATHOLOGY TRIALS</b>	
			Pr.Path.2(a)	Screening of breeding lines for disease reaction.
			Non Plan	5009
PB-7	Demonstration Trial			
PB- 8	Study of SSHT under rainfed condition( HH Set-II).			
PB-9	Multilocation trial <i>G.hirsutum</i> Cotton.			
PB-10	Large Scale Varital Trial of <i>G.hirsutum</i> Cotton.			
PB-11	Small Scale Varietal Trial of <i>G.hirsutum</i> Cotton.			
PB-12	SSVT of <i>G.hirsutum</i> Cotton.(Station Trial)			
PB-13	P.E.T. of <i>G.hirsutum</i> Cotton.			
PB-14	Multi Location Trial of <i>G. herbaceum</i> cotton (open boll).			
PB-15	Large Scale Varietal Trial of <i>G. herbaceum</i> (Open boll) cotton .			
PB-16	Small Scale Varietal Trial of <i>G. herbaceum</i> (Open boll) cotton .			

			PB-17	SSVT of <i>G. herbaceum</i> cotton. (Station Trial.)
			PB-18	P.E.T. of <i>G. herbaceum</i> cotton.
			PB-19	SSVT of <i>G.hirsutum</i> genotypes suitable for HDPS under different agro climatic conditions.
			PB-20	Study of intra <i>G.hirsutum</i> crosses in F <sub>7</sub> generation.
			PB-21	Study of intra <i>G.hirsutum</i> crosses in F <sub>3</sub> generation.
			PB-22	Study of intra specific <i>G. hirsutum</i> crosses in F <sub>1</sub> generation
			PB-23	PRT of GBHV-164 Cotton.
			PB-24	PRT of GN.Cot-26 Cotton.
			PB-25	Maintenance of cotton germplasm ( <i>Hirsutum, Herbaceum. Arboreum</i> )
			PB-26	PRT of GBHV-177 Cotton.
			PB-27	PRT of GBHV-188 Cotton.
			PB-28	Study of intra specific crosses in F <sub>7</sub> generation. (h x h)
			PB-29	Study of intra specific crosses in F <sub>6</sub> generation.(h x h).
			PB-30	Study of intra specific crosses in F <sub>5</sub> generation.(h x h).
			PB-31	Study of intra crosses in F <sub>3</sub> generation.(h x h).
			PB-32	Study of intra specific crosses in F <sub>3</sub> generation. (a x h)
			PB-33	Study of intra specific crosses in F <sub>2</sub> generation. (h x a)
			PB-34	Study of inter specific crosses in F <sub>1</sub> generation. (h x h)
			PB-35	PRT of G.Cot-17 cotton.
			PB-36	PRT of GN.Cot-25 cotton.
			PB-37	Study of inter specific crosses in F <sub>4</sub> generation. (a x a)
			PB-38	Study of intra specific crosses in segregative generation. (h x a)
			PB-39	Study of inter specific crosses in F <sub>3</sub> generation. (a x a)
			PB-40	Study of intra specific crosses in F <sub>2</sub> generation (axa) .
			PB-41	Study of intra specific crosses in F <sub>1</sub> generation (hxa) .
			PB-42	PET-III of <i>G.arboreum</i> cotton.(Station trial).
			PB-43	PET-II of <i>G.arboreum</i> cotton.(Station trial).
			PB-44	PET-I of <i>G.arboreum</i> cotton.(Station trial).
			PB-45	PRT of Fuzzless cotton (ND6)
			PB-46	P.R.T. of G.COT-16
			PB-47	Crossing Block
			PB-48	Promising Entries
			PB-49	IPS Entries
			PB-50	P.R.T. of Digvijay
			PB-51	P.R.T. of G.COT-23
			PB-52	Hirsutum x Hirsutum BGII Hybrids Trial Under Protected Condition.
			PB-53	Hirsutum Bt variety Rainfed under Protected condition.
			<b>AGRONOMY TRIALS</b>	
			Agro-1	Permanent small plot trial to study the long term effect of P <sub>2</sub> O <sub>5</sub> ( <b>Var. G. Cot.– 25</b> )
			Agro-2	Response of cotton to green manuring and different fertility levels under rainfed condition. ( <b>G.N.Cot-25</b> ) 12.2.3.44
			Agro-3	Response of cotton to tillage and different intercropping system under rainfed condition of South Gujarat.

				(G.N.Cot-25) 13.9.37
				<b>ENTOMOLOGY TRIALS</b>
			NPE 1	Screening of cotton materials included in breeding trials and important breeding materials.
			NPE 2	Population dynamics of key pests of cotton in relation to climatic conditions.
			NPE 3	Surveillance of lepidopterous pests through sex pheromones.
			NPE 4	Roving survey of mealy bug
			NPE 5	Survey of pink bollworm on Bt and Non Bt cotton.
			NPE 6	Survey for assessment of losses due to mealy bug infestations in the farmers' fields
			NPE 7	Survey for assessment of losses due to pink bollworm infestations in the farmers' fields
			NPE 8	Long term studies on phosphorus application on incidence of pests of cotton
				<b>PLANT PATHOLOGY TRIALS</b>
			NPP-1	Screening of varieties/breeding materials for resistance to different diseases.
ICAR	2009/04	Kharif	--	--
	2009/08	Kharif	(1)	Hirsutum x Hirsutum BG-II hybrids trails rainfed under protected condition
			(2)	Hirsutum Bt variety rainfed under protected condition
GOI	--	Kharif	--	--
Other Agency	18925	All Season		Agro-Advisory

**Infrastructure facilities available:**

Total area of the farm	24.97 ha
Area under CSSRI, Bharuch	3.00 ha
Area under farm structure/ Buildings	3.50 ha
Farm area under cultivation	18.47 ha
Area under Horticultural crops	Nil
Irrigated area	Nil (Rainfed)
Source of irrigation	Nil
<b>Building Infrastructure</b>	
1. Office	1
2. Store	3
3. Ginning Room	1
4. Fodder Shed	1
5. Cattle Shed	1
6. Vehicle Shed	2
7. Implement Shed	1
7. Staff Quarters	7
8. Old Building	2
9. Meteorological Observatory	1
<b>Farm Implements</b>	
1. Tractors	3

2. Mini Tractor with Trailer	1
3. Tractor Trailers	1
4. Tractor Plough	1
5. Disc Harrow	2
6. Rotary	1
7. Cultivator	3
8. Land Leveler	1
9. Seed Grader	1
10. Generator	1
Vehicles	
1. Mahindra Bollero Jeep	1
2. Two Wheelers (TVS Suzuki)	2
Live Stock	
1. Bullocks	2

**List of Technology/Material generated/Summery of technology:**

1	Variety	10 – Variety Developed
2	Recommendation	27- Recommendation made

**Nam of the Office: - Regional Cotton Research station, N.A.U., Maktampur, Bharuch**

**Designation: - Associate research Scientist (Agril.Botany)**

**Contact No: - Mail ID- rcrs@nau.in**

**Phone:- 02642-245253 Mo:- 9725001506**

**Photographs:**

**1. Office/Gate-board**







**Office/Gate-board**

**2. Experiment photos (New Varieties/MIS/Intercrop)**



**Cotton Experiments at Regional Cotton Research Station, Navsari Agricultural University, Maktampur Farm, Bharuch**

**Cotton Variety GN.Cot-25**

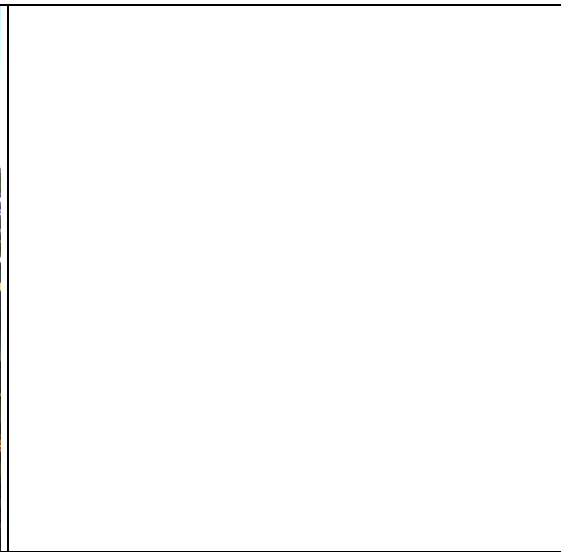


**Cotton Variety GN.Cot-29 (GBav-106)**





Cotton Variety GN.Cot-26 (GBHV-170)



**3. Photo of Infrastructure if needed.**



