

ANNUAL REPORT 2013-2014

1. INTRODUCTION

Navsari Agricultural University is a pioneer institute in the South Gujarat region for transferring the agricultural technology to the farmers to increase their agricultural production. The Directorate of Extension Education is actively involved in transfer of latest technologies to the farmer's field and giving its feed back to the research workers. The Directorate of Extension Education has started functioning in 1972 during erstwhile Gujarat Agricultural University. Later on, as a consequence of the separation of Gujarat Agricultural University into four new universities in the State, Navsari Agricultural University (NAU) has come into existence on May 1, 2004. NAU encompasses seven districts, viz., Valsad, Navsari, Dangs, Surat, Tapi, Bharuch and Narmada of South Gujarat.

Geographically, the jurisdiction is stretched over 170 km. seashore on the western side and hilly terrain with dense forest on the eastern side enclosed with high fertile land and ample natural resources. Thus, presently the NAU serves to 4 districts of hills and 3 districts of plains in South Gujarat region. With varied geographical, biophysical and socio economic conditions of the region, the work of validation of newly developed technologies and transfer of technology has become very challenging. The Directorate undertakes extension activities through 5 KVKs (working at grass root level), Training Units (Sardar Smruti Kendra & Training and Visit System) at head quarter, ATIC, extension departments at different colleges along with the State Agricultural Management and Extension Training Institute (SAMETI), Gujarat assisting in extension reform programme.

2. VISION

To make the extension system '**Farmer-Driven**' and '**Market-led**' for augmenting production, productivity and income of the farming community.

3. MISSION

1. To bridge up the agricultural technology gap at grass root level.
2. To educate rural people to attain/participate in development.
3. To create awareness about health, hygiene, environment and bio-diversity conservation for sustainable development.
4. To link farmer with newly emerging globalized world by providing them information and guidance.
5. To develop a system of effective research and extension linkages.
6. To generate employment in the field of agriculture and allied disciplines.
7. To integrate IT in rural system for their development.

4. MANDATES

1. Facilitating planning, implementation, execution and monitoring of extension programmes carried out in South Gujarat region.
2. Emphasizing participatory technology generation, dissemination and utilization.
3. Offering training and field services to public, private, NGOs and corporate sectors.
4. Enhancing the agricultural vocations in the region.
5. Promoting the 'Market-led Extension'.
6. Organizing farm advisory services at the doorsteps of the farmers.
7. Encouraging women to work in groups at the grass root level.
8. Networking of extension and development systems through ICT-mode.

5. FUNCTIONS AND ACTIVITIES

1. Facilitating planning, coordinating, guiding, executing, implementing, monitoring, supervising, evaluating and reporting the various extension programmes carried out in South Gujarat region.
2. Liaison with State Government, Central Government, ICAR, District Development Departments, SAUs, Cooperatives, NGOs etc. for carrying out NAU Extension Programmes.
3. To assist and complement to state government department of agriculture, public sector and voluntary organizations in effective management of extension education systems.
4. To transfer the innovative technology through Krishi Vigyan Kendras.
5. To organize training programmes at headquarters.
6. To serve as single window system for providing all information regarding agriculture, providing inputs like seeds & planting material through Agricultural Technology Information Center (ATIC).
7. To act as mediator for researchers by updating them with field problems of farmers and to help them in developing "Demand Driven Technology."
8. To publish extension literature and its distribution among farmers & extension functionaries.
9. To handle various collaborative extension projects for transfer of technology.

6. TOT CENTRES : *NAU Transfers agricultural technology to the farmers through ToT Centres..*

Type	Name of Centre	Location
▶ Training Centres for Farmers/Farm Women /Rural Youths	● Sardar Smruti Kendra	Navsari
	● Advance Training Centre for Soil and Water Management	Navsari
	● Demonstration-cum-Training Centre for Inland Fisheries	Navsari
	● Vegetable and Fruit Demonstration Scheme for Tribal Upliftment	Pariya
	● Tribal Women Training Centre	Dediyapada
	● Extension Wing	Navsari
▶ Training Centres for Extension Workers	● Training and Visit System Sardar Smruti Kendra	Navsari
▶ Advisory Services	● Farm Advisory Services	Navsari
	● Agricultural Technology Information Centre (ATIC)	Navsari
	● Centre of Agricultural Extension Information System	Navsari
	● Farm Publication	All Centres
▶ 1. On-farm testing 2. Frontline demonstrations 3. Training of farmers 4. Resource and knowledge centre of the district.	● Krushi Vigyan Kendra	Vyara, Waghai, Navsari, Surat, Dediyapada



Sardar Smruti Kendra



ATIC

7. EXTENSION SCHEMES RUN UNDER NAU: *Extension activities through 31 Schemes*

S.N.	Plan Schemes (16)
1	Strengthening of the Directorate of Extension Education, Navsari
2	Upgrading of the Existing Sardar Smruti Kendra, Navsari
3	Establishment of Soil and Water Management Training Centre, Navsari
4	Establishment of Centre for Agri. Extension Information System, Navsari
5	Agricultural Technology Information Centre (ATIC), Navsari
6	Demonstration-cum-Training Centre for Inland Fisheries, Navsari
7	Establishment of Livestock Inspector Training Centre, Navsari
8	Strengthening of Mobile Ambulatory Clinic Navsari
9	Vegetable & Fruit Crops Demon. Scheme for Tribal Upliftment, Paria
10	Landscaping & Gardening Training Centre, Navsari
11	Strengthening of Agricultural Technology Information Centre, Navsari
12	Testing of Uni. technologies on farmers' fields through adaptive trials
13	Esta. of Agro ITI Centre for Agricultural & Horticulture, Navsari
14	Esta. of Agro ITI Centre for Veterinary, Dairy, Poultry & Fisheries
15	Establishment of Tribal Women Training Centre, Dediypada
16	Establishment of University Education Museum, Navsari
S.N.	Non-Plan Schemes (07)
1	Directorate of Extension Education
2	Extension of VC and Zonal Office, Navsari
3	Establishment of Sardar Smruti Kendra, Navsari
4	Establishment of Farm Advisory Services, Navsari
5	Establishment of School of Baking, Navsari
6	Upgrading of School of Baking, Navsari
7	Bal Mandir, Navsari
S.N.	Other Agency (02)
1	Training & Visit System, Navsari (Non-Plan)
2	Training & Visit System, Navsari (Plan)
S.N.	ICAR (06)
1	Krushvi Vigyan Kendra, NAU, Vyara, Dist.-Tapi
2	Krushvi Vigyan Kendra, NAU, Navsari
3	Krushvi Vigyan Kendra, NAU, Dediypada, Dist.-Narmada
4	Krushvi Vigyan Kendra, NAU, Surat
5	Krushvi Vigyan Kendra, NAU, Waghai, Dist.-Dangs
6	Providing support to DEE for knowledge empowerment, technological backstopping, HRD and overseeing of KVKs, Navsari

8. SALIENT EXTENSION ACTIVITIES & ACHIEVEMENTS

8.1 Important Extension Programmes carried out during 2013-14:

S.N.	Extension Programmes	Date/ Duration	Place	Participants		Organizer
				Nos.	Type	
1.	Gujarat Gaurav Din-2013	01-05-2013 (1 day)	Navsari	16500	Farmers	DEE
2.	Krishi Mahotsav-2013 (Krushi Rath Seviles)	14-05-2013 to 31-05-2013 (18 days)	All seven Districts of S.G.	252 123	Scientists P.G. Students	DEE
3.	Mega Inaugural function of KM-2013 for South Gujarat in presence of Hon. Chief Minister	18-05-2013 (1 day)	Bharuch	33000	Farmers	DEE & Bharuch Admn.
4.	Special training programme on "Goat Rearing".	10-06-2013 (1 day)	Navsari	23	Goat Farmers	DEE
5.	MoU with Dhanuka Agritech Ltd. for starting one year Diploma on "Agricultural Extension Services for Input Dealers". (1 year duration).	14-06-2013 (1 day)	Navsari	39	Input Dealers	DEE & Dhanuka, New Delhi
6.	Training programme on "Rodent Pest Management".	03-07-2013 to 09-07-2013 (7 days)	Navsari	20	Officers of State Agri Dept., KVKs & NAU Scientists	DEE & NIPHM, Hyderabad
7.	Impact Assessment of 'Convergence of Farmers' Clubs and Farmers' Interest Groups in Anand District.	05-07-2013 (one day)	Anand	10	NAU Scientists	DEE & Collector, Anand
8.	Special training programme on "Mushroom Cultivation".	08-07-2013 to 12-07-2013 (5 days)	Navsari	18	Mushroom growers	DEE
9.	Farmers' Interaction Meet on "Meeting Challenge of Climate Change through Integrated Mitigation & Adaptation for Sustainable Agriculture through community based locally adapted strategies & Leadership".	22-07-2013 (1 day)	Navsari	103	Farmers	DEE & NCCSD. Ahmedabad
10.	Socio-economic impact of "Forest Land Patta" awarded under Gujarat State Forest Rights Act-2006 on beneficial Tribal of South Gujarat.	26-07-2013 (1 day)	All seven Districts of South Gujarat	10	Staff of DEE & KVKs	DEE
11.	Vibrant Gujarat Global Agri- business Summit-2013	09-09-2013 to 12-09-2013 (4 days)	Mahatma Mandir G.Nagar	26 16 100	NAU Scientists Progr. Farmers Students	DEE & GoG
12.	Training-cum-Awareness Programme on "Protection of Plant Varieties & Farmers Right Act-2001".	21-10-2013 (1 day)	Navsari	70 30	Farmers NAU Scientists	DEE & PPVFRA
13.	Farmers' Day and Agri Exhibition at Regional Cotton Research Station, Bharuch.	24-10-2013 to 25-10-2013 (2 days)	Bharuch	2150	Farmers	RS (Cotton) & DEE

14.	Model Training Course on "Seed Production Techniques in Paddy & Pulses".	12-11-2013 to 19-11-2013 (8 days)	Navsari	20	Officers of State Agri Dept., KVKs & NAU Scientists	DEE, ICAR & Pulse Research Station
15.	Peripatetic Workshop on "Human Resource Development"	20-11-2013 to 22-11-2013 (3 days)	Navsari	30	NAU Scientists	DEE & EEI, Anand
16.	Training on "Youth Leadership and Community Development".	25-11-2013 to 27-11-2013 (3 days)	Navsari	36	Rural Youths	DEE & Nehru Yuva Kendra
17.	Model Training Course on "Protected Cultivation for Horticultural Crops".	11-12-2013 to 18-12-2013 (8 days)	Navsari	20	Officers of State Agri Dept., KVKs & NAU Scientists	DEE & ICAR
18.	Cooperative Farmers' Interaction Meet	13-12-2013 (1 day)	Navsari	400	Cooperative Farmers	DEE & GSAMB, Gandhinagar
19.	Workshop on "Preparation of Training Plan for Nehru Yuva Kendra Volunteers".	18-12-2013 (1 day)	Navsari	12	District Youth Coordinators of NYK & PCs of KVKs	DEE
20.	Opening of newly established "Agricultural Educatorium" by Hon. Governor of Gujarat in the presence of Hon. Minister of Agriculture & DG, ICAR.	03-01-2014 (1 day)	Navsari	25	Hon.VCs of SAUs, Members of AC, EE, BoM, Deans, Directors	DEE
21.	Workshop on "Reviewing and preparation of Annual Action Plan of KVKs.	07-01-2014 (1 day)	Navsari	14	PCs & SMSs of KVKs	DEE
22.	Participation in "Krushi Mela" organized by ATMA, Navsari (Paddy, Sugarcane & Pulses)	08-01-2014 to 10-01-2014 (3 days)	Surkhai (Chikhali)	11	Scientists of Paddy, Pulses & Sugarcane	DEE
23.	Participation in Mega Krushi Mela "Agri Vision India-2014" organized by Khodaldham Trust, Kagvad (Jetpur) and inaugurated by Hon. Chief Minister	21-01-2014 to 24-01-2014 (4 days)	Kagvad (Jetpur)	04	16 Posters of NAU Technologies	DEE
24.	Participation in Mega Krushi Mela "Krishi Vasant-2014" organized by GoI at Nagpur and inaugurated by Hon. President of India.	09-02-2014 to 13-02-2014 (5 days)	Nagpur Maharashtra	50 50 04	Farmers by KVK, Navsari Farmers by KVK, Vyara SMSs of KVKs	DEE
25.	Symposium on "Potash in Sugarcane"	12-02-2014	Navsari	100	Sugarcane growers	DEE, RS (Sugarcane) & Indian Potash Ltd.
26.	Certificate Course on "Protected Cultivation - Green House/Net House".	17-02-2014 to 03-03-2014 (15 days)	Navsari	25	Aspiring Farmers of Green House /Net House	DEE & ACHF

8.2 Extension activities carried out: *for the dissemination of new technology to farmers*

S. N.	Extension Programmes	No. of activities	No. of Beneficiaries			
			Farmers	Women	Youths	Total
1.	Farmers training class (On Campus)	289	4510	3508	2005	10023
2.	Farmers training class (Off Campus)	166	2673	2079	1189	5941
3.	Farmers' day/ Field day	23	2859	3676	1634	8169
4.	Agril. Exhibition/ Agril. Fair	18	11042	12882	6749	30673
5.	Farmers/Farm women shibir	41	1506	3739	987	6232
6.	Seminar/Symposium/ Interface for farmers	80	2329	1811	1037	5177
7.	Farmers' meeting/ Krishi gosthi	32	886	872	802	2560
9.	On Farm Trials	15	82	6	68	156
10.	Field trip/ Exposure visit	112	1677	2704	1211	5592
11.	Diagnostic services for farmers fields	34	218	15	130	363
12.	Veterinary clinic camp /Exhibition	31	753	1516	259	2528
13.	Training/Workshop/ Interface for Ext. funct.	18	462	115	-	577
14.	Video film show for new agri practices	32	1044	1326	1112	3482
15.	Telephonic guidance/ Letter correspondence	1221	726	9	486	1221
16.	Farm Publication (Folders/Leaflets etc.)	112	114240	47040	62720	224000
17.	Popular articles/Press-notes in news papers	54	Mass	Mass	Mass	Mass
18.	Radio & TV Programmes	9	Mass	Mass	Mass	Mass

8.3 Seminar/Symposium/Interface organized for farmers: *for capacity building of farmers*

S. N.	Subject/Topic	No. of Programmes	No. of Beneficiaries
1	Sugarcane production technology	6	388
2	Paddy production technology	6	298
3	Fruit crops cultivation (Mango, Chiku etc.)	5	281
4	High-tech Horticulture	5	327
5	Floriculture (green house, flower dehydration)	4	282
6	Vegetable crops cultivation (South Gujarat)	5	319
7	Cotton production technology	4	271
8	Soil & Water management (micro irrigation)	5	276
9	Value addition & Product of Banana pseudo stem	1	80
10	Post-harvest technology in fruit crops	7	521
11	Post-harvest technology in other crops	2	112
12	Value addition and agriculture marketing	4	213
13	Rabi crops cultivation (wheat, pulses, oilseeds)	4	232
14	Organic farming (bio-fertilizer, vermi-compost)	4	301
15	Livestock management/Animal husbandry	3	187
16	Inland Fisheries-production & marketing	3	176
17	Home Science (women empowerment, child care)	7	491
18	Tissue culture/Kitchen gardening	5	422
Total		80	5177

8.4 Scientific Advisory Committee (SAC) Meetings of KVKs:

The Scientific Advisory Committee (SAC) Meetings of five KVKs viz. Waghai, Vyara, Navsari, Dediapada and Surat working under NAU were conducted to review the mandatory activities carried out during last year and to plan the extension programmes to be carried out during next year for effective dissemination of technology. The date schedule is given in following Table.

S.N.	Name of KVK	Date
1	KVK Navsari (Navsari)	10-02-2014
2	KVK Surat (Surat)	10-02-2014
3	KVK Vyara (Tapi)	11-02-2014
4	KVK Waghai (Dangs)	11-02-2014
5	KVK Dediapada (Narmada)	12-02-2014

8.5 ATMA Convergence Quarterly Meetings: *An interface between ATMA, KVKs & NAU Scientists*

S.N.	Quarter	Date of Meeting	No. of Officers Participated
1.	January-March 2013	04-04-2013	19
2.	April-June 2013	10-07-2013	21
3.	July-September 2013	07-10-2013	24
4.	October-December 2013	10-01-2014	23

8.6 Model Training Courses:

During the year 2013-14, the Directorate of Extension Education has conducted two Model Training Courses. One Training Course on **"Seed Production Techniques in Paddy & Pulses"** was conducted from 12-11-2013 to 19-11-2013 (8 days) by Directorate of Extension Education, NAU, Navsari. 20 Officers of State Agri Dept., KVKs & NAU Scientists had participated.



Hon. Vice-Chancellor Dr.A.R. Pathak addressing the participants of MTC.



Participants of MTC visiting the Paddy Seed Plot

Second Model Training Course on **"Protected Cultivation for Horticultural Crops"** was conducted from 11-12-2013 to 18-12-2013 (8 days) by Directorate of Extension Education, NAU, Navsari. 20 Officers of State Agri Dept., KVKs & NAU Scientists had participated.



Participants of MTC are in field visit



Participants of MTC are in field visit

9. MEGA EVENTS ORGANIZED DURING THE YEAR 2013-14:

9.1 Celebration of Gujarat Gaurav Din-2013:

Hon. Chief Minister Shri Narendra Modi, who was at Navsari to take part in the State celebration of 53rd foundation day of Gujarat on 1st May, 2013, inaugurated Agriculture Fair and 'Bhumi Vandana' programme held at the main campus of Navsari Agricultural University. The CM also inaugurated the Mango Festival and addressed a Seminar of 6000 innovative/progressive farmers of the state. On the occasion, the innovative farmers held an exhibition showcasing their agriculture experiments. Their achievements have been presented in this exhibition in 30 different divisions. There is also an exhibition of around 1000 samples of 100 different species of mangoes and flowers. Total 16500 farmers visited the Agriculture Fair.



Hon. Chief Minister Shri Narendra Modi enlightening the lamp in inaugural function.



Hon. Chief Minister Shri Narendra Modi visiting in Innovative Farmers' Exhibition.

9.2 Organization of Krishi Mahotsav-2013:

The State Government organizes a month-long Krushi Mahotsav on the auspicious occasion of Akhatrij every year since 2005. The main objectives of this mega event are to provide know-how about the latest agricultural technology to the farmers, to create the appropriate atmosphere for implementation of various development schemes of Government and to make the income doubled of the farmers.

The Krishi Mahotsav-2013 was organized from 14-31 May, 2013 in which 252 Scientists and 123 P.G. Students of the NAU joined with the 42 Krushi Rathes prepared by Government of Gujarat and provided the know-how about the latest agricultural technology to the farmers of 3682 villages of Navsari, Valsad, Surat, Bharuch, Narmada, Dangs and Tapi Districts of South Gujarat, During the period of 18 days of Krishi Mahotsav-2013, the various activities like; one mega Krushi mela, 12 seminars and 27 farmers' days were organized by NAU through which 7928 farmers were benefitted.

A Mega Krishi Mahotsav Function and cattle health fair for the seven districts of south Gujarat was organized by Navsari Agricultural University and Bharuch District Administration on May 18, 2013 at NAU Farm, Bharuch. Hon. Chief Minister Shri Narendra Modi inaugurated an impressive exhibition, contains 108 stalls, depicting the new methods of farming, research and value-addition technology in agriculture and visited a Cattle Health Fair. The Chief Minister released a set of VCDs and books published by Navsari Agriculture University. Total 33000 farmers visited the Agriculture Fair.



Hon. Chief Minister Shri Narendra Modi enlightening the lamp in inaugural function.



Hon. Chief Minister Shri Narendra Modi enlightening the lamp in inaugural function.

9.3 Vibrant Gujarat Global Agri-business Summit-2013: Sharing & showcasing innovations of progressive farmers

The Government of Gujarat had organized "Vibrant Gujarat Global Agri-business Summit-2013" from September 9-12, 2013 at Mahatma Mandir in Gandhinagar with the aim to bring together a large number of progressive farmers from across the country and provide them a platform for interaction with thought leaders, policy makers, academia, scientists, investors, technologists, etc. The Summit was organized with the assumption that the participating farmers would be benefitted in the following ways:

- 1) Learning best practices & latest technologies,
- 2) Recognizing progressive farmers & successful innovations
- 3) Empowering farmers with knowledge & right linkages
- 4) Building partnerships & networking amongst all stakeholders
- 5) Brainstorming about present challenges, opportunities & future roadmap

Hon. Chief Minister Shri Narendra Modi inaugurated the Summit on 9th September 2013 and addressed a unique programme called 'Kisan Panchayat' of great attraction for farmers. The high-tech agri exhibition was consisting of 50 stalls of progressive farmers of Gujarat and 50 stalls of progressive farmers of other than Gujarat State. Out of 50 stalls of progressive farmers of Gujarat, 16 stalls were from the farmers of Gujarat falls under NAU jurisdiction. NAU has also displayed its latest technology through 15 big size vinyl posters. Delegations from more than 15 countries and farmers from across the country had taken part in the exhibition. The Chief Minister felicitated the progressive farmers of all the districts of India who have won award for their agriculture practices. In the programme, around 4000 farmers of Gujarat and 5000 farmers from other states have participated.



Hon. Vice-Chancellor Dr. A.R. Pathak visiting the NAU Stall



Farmers visiting the NAU Stall