

# EXTENSION EDUCATION

## Annual Report

Year: 2024-25



NAVSARI AGRICULTURAL UNIVERSITY

Directorate of Extension Education  
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# EXTENSION EDUCATION

• ANNUAL REPORT 2024-25 •

## INDEX

S.N.	Topic	Page
1.	Introduction	3
2.	Vision	3
3.	Mission	3
4.	Mandate	4
5.	Functions and Activities	4
6.	Staff Strength	4
7.	Transfer of Technology Centres & Extension schemes	5-9
8.	Salient Extension Activities & Achievements	10-21
9.	New Initiations in Extension Programmes	21-24
10.	National Flagship Programmes / Celebrations	25-33
11.	Mega Events & Awards Received	33-40
12.	Publications	40-45

## **ANNUAL REPORT 2024-25**

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### **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.
6. To serve as a 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. DETAILS OF TECHNICAL STAFF WORKING UNDER EXTENSION UNIT

S.N.	Designation	No. of Posts		
		Sanctioned	Filled	Vacant
1.	Director of Extension Education	1	1	0
2.	Training Associate	1	1	0
3.	Assistant Extension Educationist	4	3	1
4.	Agricultural Officer	3	3	0
5.	Agriculture Supervisor	1	1	0
6.	Agricultural Assistant	2	0	2
	<b>Total</b>	<b>12</b>	<b>9</b>	<b>3</b>

## 7. TRANSFER OF TECHNOLOGY (ToT) CENTRES & EXTENSION SCHEMES

### 7.1 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
	● Tribal Women Training Centre	Dediypada
	● Extension Wing	Navsari
	● Agro ITI	Navsari
▶ Training Centres for Extension Workers	● Training and Visit System	Navsari
	● Sardar Smruti Kendra	Navsari
▶ Advisory Services	● Farm Advisory Services	Navsari
	● Agricultural Technology Information Centre (ATIC)	Navsari
	● Centre of Agricultural Extension Information System	Navsari
	● University Educational Museum	Navsari
	● Farm Publication	All Centres
▶ 1. On-farm testing 2. Frontline demonstrations 3. Trainings to farmers 4. Resource and knowledge centre of the district.	● Krushi Vigyan Kendra	Vyara, Waghai, Navsari, Surat, Dediypada



Agriculture Educational Museum (Educatorium)



Sardar Smruti Kendra (SSK)

### 7.2 Vocational Certificate Courses for Rural Youth & Women:

S.N.	Name and location of the courses	Type	Duration	Intake capacity
1.	School of Baking: Basic Baking Science Course Navsari	Certificate	20 Weeks	16+16
2.	Landscaping and Gardening training centre: Navsari	Certificate	6 Months	20
3.	Nature and Wild life photography: Navsari	Certificate	1 Year	20
4.	Certificate course on Protected Cultivation (NH/GH)	Certificate	15 Days	40

5.	Tailoring (cutting and stitching)	Certificate	90 Days	30
6.	Agro ITI: Navsari	Certificate	1 to 3 days	20
7.	Certificate in Agricultural Extension Services for Input dealers: Navsari	Certificate	6 Months (Weekly)	40
8.	Certificate Course on Integrated Nutrient Management for Fertilizer dealers	Certificate	15 Days	40
9.	Certificate course on Insecticides Management for Insecticides Dealers/ Distributers	Certificate	12 weeks	40

### 7.3 Short duration Agro ITI courses for Skill Development in Rural Youths:

- Seed production
- Farm management
- Organic farming
- Natural farming
- Soil-Water-Plant analysis
- Micro irrigation system
- Bio-fertilizers & Bio-pesticides
- Kitchen garden/Terrace garden
- Bonsai & flower management
- Poultry farming
- Tissue culture
- Diseases-insect identification and biological remedies
- Animal husbandry
- Commercial mushroom production
- Reproductive system in cow & Buffalo
- Cultivation in horticulture crops
- Soil nutrient management
- Value addition in horticulture crops
- Hydroponic farming
- Canopy management in mango
- Cow shed planning
- Agricultural entrepreneurship development

### 7.4 Ongoing Extension Schemes: *Extension activities through 29 Schemes*

S.N.	B.H.	Plan Schemes: Development Charges (10)
1.	12505	Strengthening of the Directorate of Extension Education, Navsari
2.	12607	Upgrading of the existing Sardar Smruti Kendra, Navsari
3.	12305	Agricultural Technology Information Centre (ATIC), Navsari
4.	12240	Establishment of Agro ITI Centre for Agricultural & Horticulture, Navsari
5.	12304	Establishment of University Educational Museum, Navsari
6.	12306	Testing of University technologies on farmers' fields through adaptive trials, Navsari
7.	12508	Establishment of Mali Training Centre at all Campuses
8.	12308	Strengthening of Soil and Water Management Training Centre, Navsari
9.	12307	Strengthening of Tribal Women Training Centre, Dediypada
10.	12145	Strengthening of Extension Wing, Navsari
S.N.	B.H.	Non-Plan Schemes : Standing charges (05)
1.	4505	Directorate of Extension Education
2.	5116	Establishment of Sardar Smruti Kendra, Navsari
3.	6221	Establishment of Farm Advisory Services, Navsari
4.	6228-1	Establishment of School of Baking, Navsari
5.	7228-1	Upgrading of School of Baking, Navsari
S.N.	B.H.	Other Agency (08)
1.	18246-3	Training & Visit System, Navsari (Non-Plan) , Navsari
2.	18999-1	Green/Net house Farmers' Training, Navsari
3.	18013-7	Diploma in Agricultural Extension Services for Input Dealers, Navsari

4.	18199	Certificate Course on Integrated Nutrient Management for Fertilizer dealers
5.	18223	Certificate course on Insecticides Management for Insecticides Dealers/ Distributers
6.	18121	Krusha Library, Navsari
7.	18160	Farmer FIRST Programme
<b>S.N.</b>	<b>B.H.</b>	<b>ICAR (06)</b>
1.	2704	Krusha Vigyan Kendra, NAU, Vyara, Dist.-Tapi
2.	2704	Krusha Vigyan Kendra, NAU, Navsari
3.	2704	Krusha Vigyan Kendra, NAU, Dediapada, Dist.-Narmada
4.	2704	Krusha Vigyan Kendra, NAU, Surat
5.	2704	Krusha Vigyan Kendra, NAU, Waghai, Dist.-Dangs
6.	2033	Providing support to DEE for knowledge empowerment, technological backstopping, HRD and overseeing of KVKs, Navsari

### 7.5 Introduction of Krishi Vigyan Kendra:

Krishi Vigyan Kendra (Farm Science Center) is a science/ technology led, farmer centric institution, established with the purpose of providing knowledge and skill training to the farmers, rural youth and field-level extension workers. Vocational training in agriculture and allied fields through KVK has become the need of the hour for ensuring livelihood security and enhancing farm income the farmers not only require knowledge and understanding of intricacies of new technologies but also more skills to adopt the same in varied and complex field situation on their farms. In view of this, the role of KVK was further enhanced by adding the responsibility of on-farm testing and front-line demonstrations of major agricultural technologies to dovetail the same with location specific environment. In order to equip the present-day farmers to face the challenges of information explosion and to bridge the digital divide, KVKs were also given the other responsibility of acting as knowledge and resource centre of agricultural and allied technologies. The use of ICT by KVKs has been substantial to provide necessary and timely information on weather, markets and solutions to various day to day problems faced by farmers.

#### Mandates of KVKs:


- On-farm testing to assess the location specificity of agricultural technologies under various farming systems.
- Organize frontline demonstrations to establish production potential of technologies on the farmers' fields.
- Capacity development of farmers and extension personnel to update their knowledge and skills in frontier agricultural technologies and enterprises.
- Work as Knowledge and Resource Centre for improving overall agricultural economy in the operational area.


## Objectives of KVK


1. To demonstrate the new improved technology to the farmers as well as to the extension agency directly in the farmers field with their active participation.
2. To identify the area specific problems of the farmers and prioritization of the identified problems as per their importance.
3. To collect feedback from farmers and extension agencies and to provide linkages with scientists for the modification or refinement of technology.
4. To impart training to the practicing farmers, rural youth and extension functionaries for capacity building.
5. To provide new and important information on agriculture and allied sectors to the extension agencies or NGO's for wider circulation to improve their economic condition.
6. To prepare different extension models and verify these models in the farmers field with their participation to create confidence among them.


## KVKs Under Navsari Agricultural University:


Navsari Agricultural University working in Jurisdiction of seven District of South Gujarat, and each district has its KVK among them Two KVKs *i.e* KVK Valsad is under Gujarat Vidyapith and KVK, Chasvad is under BIAF (NGO). The remaining Five KVKs are under NAU, Navsari namely, Waghai, Vyara, Narmada, Navsari and Surat. The details of KVKs of NAU are as Under:

1.		
Name of KVK	Krusha Vigyan Kendra, NAU, Waghai, Dist Dang	
Year of establishment:	1985	
Area of Jurisdiction:	Dang district, Gujarat	

2.		
Name of KVK	Krusha Vigyan Kendra, NAU, Vyara, Dist: Tapi	
Year of establishment:	2004	
Area of Jurisdiction:	Narmada district, Gujarat	

<b>3.</b>		
Name of KVK	Krushi Vigyan Kendra, NAU, Narmada, Dist: Narmada	
Year of establishment:	2007	
Area of Jurisdiction:	Narmada district, Gujarat	

<b>4.</b>		
Name of KVK	Krushi Vigyan Kendra, NAU, Navsari, Dist: Navsari	
Year of establishment:	2008	
Area of Jurisdiction:	Navsari district, Gujarat	

<b>5.</b>		
Name of KVK	Krushi Vigyan Kendra, NAU, Surat, Dist: Surat	
Year of establishment:	2011	
Area of Jurisdiction:	Surat district, Gujarat	

## 8. SALIENT EXTENSION ACTIVITIES & ACHIEVEMENTS

### 8.1 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.	On campus Farmers' Training programme (inclusive of all)	330	7402	8815	2429	16217
2.	Off campus Farmers' Training programme (inclusive of all)	218	4395	4403	1010	8798
3.	Training for Extension functionaries	51	1009	794	105	1803
4.	Seminar / Workshop / Symposium for Farmers	27	1759	1245	540	3004
5.	Seminar / Workshop / Interface / Symposium for Extension Officers	8	352	178	48	530
6.	Farmers' day/Field day	56	1174	1211	349	2385
7.	Agril. Fair/Kishan Mela/ exhibition	117	21307	14935	2725	36242
8.	Farmer shibir / Farm women shibir /sci -farmer interaction	508	25438	24372	1415	49810
9.	Farmers' meeting/Krushgi gosthi/ Farm school	54	693	640	4698	1333
10.	Front Line Demonstrations (KVKs only)	1209.37	1854	2562	623	4416
11.	Adaptive trials (KVKs only)	1002	2989	2196	688	5185
12.	On Farm Trials (KVKs only)	35.6	85	35	23	120
13.	AICRP Demonstrations	113.17	585	29	367	614
14.	Demonstration (Research Station)	1.5	2	0	4	2
15.	Method Demonstration	146	1949	1130	273	3079
16.	Field /FLD Visit	899	4226	3426	312	7652
17.	Veterinary Clinic Camp/A. H. Shibir	5	489	201	219	690
18.	Text SMS sent on farmers' mobile	266	3670	2548	46231	6218
19.	Advisory services (Telephonic/ e-mail, Socil media, website guidance)	9286	20506	10654	2607	31160
20.	Press-notes	275	Mass	Mass	Mass	Mass
21.	TV talk/Radio Talk	92	Mass	Mass	Mass	Mass
22.	Natural Farming Awareness program	77	5600	5289	1804	10889
23.	Visitors (dignitaries, officers, farmers, students)	10189	12533	9429	2240	21962
24.	Film Show	294	5193	4955	503	10148
25.	Celebration of important days	150	5274	6584	939	11858
26.	Vikshit Bharat SankalpYatra	5	503	871	2429	1374
27.	Soil water sample analysis	13	217	4586	1010	4803
28.	Educational Tour	168	1062	2006	105	3068

\* Area in Ha.

## 8.2 Seminar/Symposium/Interface organized for farmers: for capacity building of farmers

S. N.	Subject/Topic	No. of Programm	No. of Beneficiaries
1.	Paddy Crop	2	385
2.	Sugarcane Crop	1	652
3.	Fruit Crops	2	327
4.	Flowers	1	86
5.	Vegetable Crops	2	53
6.	Pulse Crops	2	72
7.	Integrated Pest & Disease Management	1	78
8.	Post Harvest Technology	2	77
9.	Green House Technology	1	62
10.	Soil and Water Management	1	220
11.	Agriculture farm Machinery	2	175
12.	Animal Husbandry	2	175
13.	Value Addition	3	222
14.	Natural / organic farming	3	315
15.	Fishery and its Marketing	1	62
16.	Prawn/Shrimp cultivation and its Marketing	1	43
<b>Total</b>		<b>27</b>	<b>3004</b>

## 8.3 Front-line Demonstrations:

The main objective of Front-Line Demonstrations is to demonstrate newly released crop production and protection technologies and its management practices in the farmers' field under different agro-climatic regions and farming situations. While demonstrating the technologies in the farmers' field, the scientist studies the factors contributing higher crop production; field constrains of production and thereby generates production data and feedback information. Total 9749 FLDs in 1209 ha. and 584 other demonstrations in 113 ha. were conducted on farmers' fields under the close supervision of the NAU Scientists.

SN	Crop	No. of Demon	Area (Ha)
1.	Paddy	2930	473
2.	Sugarcane	229	38
3.	Pigeon pea	1267	161
4.	Gram	1290	146
5.	Green gram	998	102
6.	Nagli	291	26
7.	Sweet corn	166	18
8.	Okra	844	82
9.	Groundnut	550	47
10.	Maize	478	38
11.	Mango	262	26
12.	Sapota	120	15
13.	Cashew	157	20
14.	Turmeric	167	18
<b>Total</b>		<b>9749</b>	<b>1209</b>



FLD on GreenGram var: GM.6 at kaltan village by KVK, Navsari



FLD on Pigeonpea (GT-105) at Pethapur by KVK, Tapi



FLDs on- Paddy (GR-24)By KVK, Surat

## 8.4 Adaptive Trials on University Technologies:

Adaptive or minikit trial is a method of determining the suitability or otherwise a new practice in the farmers' situations. This may be regarded as the on-farm participatory technology development (PTD) process which requires the farmers' choice and opinion about the practice as important. The main purpose of these trials was to test the new and promising practice under the local resources, constraints and abilities of the farmers.

During 2024-25, total 5185 adaptive trials in 1002 ha. Area were conducted on the farmers' fields through five KVKs (Navsari, Vyara, Waghai, Dediapada and Surat) in South Gujarat on newly released varieties of Paddy, Soyabean, Groundnut, Pigeon pea, Cotton, Raagi, Vari, Banti, Mango, Little gourd, pointed gourd, Indian bean, Dragon fruit, Okra, Val, Chick pea, Green Gram, Elephant foot, Turmeric, Castor, Napier grass etc. were conducted. Other Demonstrations on fruit fly trap, grafting brinjal, ICM, IPDM, Mushroom, liquid bio fertilizer, Novel Organic Liquid Nutrients, Kitchen garden, Fodder Jower were also conducted.



Adaptive trial on Indian bean (GNIB-22) by KVK, Nvs



Adaptive trial on Paddy (GNR-7) by KVK, Navsari



Adaptive trial on Paddy (Navsari kamod) by KVK, Tapi



Adaptive trial on Gram (GG-6) by KVK, Vyara



Adaptive trial on Napier grass (Koimbtur 3) by KVK, Waghai



Adaptive trial on Oyster mushroom by KVK, Waghai



Adaptive trial on Cotton (HY - 10) by KVK, Dediapada



Adaptive trial on Finger millet (CFMV - 2: Gira) by KVK, Dediapada



Adaptive trial on Integrated Crop Management in Soybean by KVK, Surat



Adaptive trial on Kitchen garden by KVK, Surat

### 8.5 Pre-Seasonal Rabi-Wokshop:

Pre-seasonal workshop was organized on rabi seasons to review the work done in last season and to plan for forthcoming season in convergence mode. District wise agriculture

status and feedback pertaining to problems faced by the farmers in adoption of new technology at grass root level were discussed in the presence of Dr. H. R. Sharma, DEE on October 14<sup>th</sup>, 2024 and meeting was held at Sardar Training Hall.



**Pre-seasonal workshop -Rabi-2024 Organised by ATIC**

### 8.6 Bimonthly workshop

The Directorate of Extension Education organizes Bimonthly workshop under broad base extension training programme for agriculture and horticulture line department staff. During the period Bimonthly workshop were organized as under:

S.N.	Activities	Place	Date	Beneficiaries
1.	Bimonthly workshop, Jan. -Feb., 2024	ATIC, NAU	30-01/2024	35
2.	Bimonthly workshop, March. -April,2024	ATIC, NAU	14-15/03/2024	40
3.	Bimonthly workshop, August -Sept. 2024	SSK, NAU	03-04 /07/2024	40



**Bimonthly workshop organized with department of Horticulture in Presence of JDH, DDH and NAUs' scientists**

### 8.7 35<sup>th</sup> Zonal Research and Extension Action Committee (ZREAC) Meetings:

35<sup>th</sup> ZREAC meeting convened on October 14<sup>th</sup>, 2024, presided over by the esteemed Vice Chancellor, Dr. Z. P. Patel, at SSK. Among the distinguished attendees were Dr. T. R. Ahlawat, Director of Research, Dr. H. R. Sharma, Director of Extension Education, Dr. H. M. Viradiya, Registrar, Prof. Jaimin Naik, DSW, Dr. R. M. Naik, Dean NMCA & ACH, Dr. P. K. Srivastava, Dean CoE, Dediya-pada, Dr. O. P. Sharma, Dean AABM and Shri K. V. Patel, JDA, Surat along with University officials, Department heads, Research Scientists, DAOs, DDHs, PDs, KVKs scientists, forward-thinking farmers from South Gujarat, and

NAUs faculties actively participated in this meeting. The proceedings were skillfully overseen by Dr. G. B. Kalaria (P.P.) Training Associate, T & V System.



Vice Chancellor, Dr. Z. P. Patel, addressing the house during 35<sup>th</sup> Zonal Research and Extension Action Committee meeting

### 8.8 Scientific Advisory Committee (SAC) Meetings of KVKs:

In order to review the activities carried out by KVKs and to seek the suggestions for better planning and implementation of activities for next year, the meetings of Scientific Advisory Committee (SAC) of five KVKs run under NAU were organized as under:

S.N.	Name of KVK	Date of meeting
1.	KVK, Navsari (Navsari)	10/02/2025
2.	KVK, Vyara (Tapi)	11/02/2025
3.	KVK, Waghai (Dang)	11/02/2025
4.	KVK, Surat (Surat)	28/02/2025
5.	KVK, Dediypada (Narmada)	04/03/2025



Scientific Advisory Committee Meeting of KVK Navsari,



Scientific Advisory Committee Meeting of KVK Surat



Scientific Advisory Committee Meeting of KVK Vyara,



Scientific Advisory Committee Meeting of KVK Dang

## 8.9 15<sup>th</sup> Extension Education Council Meeting of NAU

15<sup>th</sup> Extension Education Council meeting of NAU organized by DEE, NAU in the presence of Dr. Z. P. Patel, Hon'ble Vice- Chancellor at VC Conference Hall on 22<sup>nd</sup> August 2024. Many constructive suggestions emerged from forum. The progress report of last year was presented by Dr. H. R. Sharma, DEE, NAU.



15<sup>th</sup> Extension Education Council meeting of NAU.

## 8.10 Pre-Annual Zonal Workshop -cum- Monthly Review Meeting of KVKs

One day Pre-Annual Zonal workshop-cum-Monthly Review Meeting of KVKs under NAU Jurisdiction organized on 14th August, 2024 at KVK, Vyara under the Chairmanship of Dr. H. R. Sharma, DEE, NAU. The chief scientists and Head of all 7 KVKs were participated. Head of all KVKs were presented progress of activities made during the year 2023, the important points about schemes/projects, development activities and planning were discussed (No. of participants 30).



Pre Annual Zonal Workshop-cum -Monthly Review Meeting of KVKs held at KVK, Vyara

### 8.11 Review meeting of KVKs:

Three review meeting of all the 7 KVKs under NAU was held under the Chairmanship of Director of Extension Education, NAU, Navsari during 2024. Senior Scientist & Head of all KVKs were presented progress of activities made during the month and planning for the next month and various issues were discussed. In these meetings, Senior Scientist & Head of all the 7 KVKs along with scientists were remain present.



Dr H. R. Sharma, DEE review the Progress & wokdone by KVKs in the Review meeting.

### 8.12 Agricultural Educatorium (University Educational Museum):

Agricultural Educatorium situated at Navsari is a one of the best agricultural Museums in India providing basics of agriculture to all walks of people. During the period, total 5474 visitors (farmers, dignitaries, scientists, students *etc.*) had visited the museum and got basic knowledge and information related to agriculture and allied subjects through various display media *viz.*, storytelling board, kiosks, press button board, diorama, murals, show case, models, specimens *etc.*



Tika Ram Thapa, Ministry of Land Management, Agriculture and Co-operatives, Karnali, Province  
16.12.2024



visiters from Prerana Pravas, Dantej, Navsari



**Dr. A. K. Vyas, Honourable Vice-chancellor of Agriculture University, Kota visited Agricultural Educatorium, NAU, Navsari on 7<sup>th</sup> January, 2025**



**Visitors from ICDP, Tapi**

### **8.13. Orientation training program for *Rabi Krushi Mahotsav 2024*:**

*Rabi Krushi Mahotsav* was organized in seven talukas of South Gujarat on 6-7 December, 2024. An Orientation programme organized for Scientists to update their knowledge about Agril. technology on 03/12/2024. The several lectures on the excellent technologies of NAU, new recommendations & package of practices of new crops were arranged.



**Orientation training program for *Rabi Krushi Mahotsav 2024***



**Orientation training program for *Rabi Krushi Mahotsav 2024***

### 8.14. Workshop on 'Importance of agricultural marketing for livelihood security'

CCS, National Institute of Agricultural Marketing (NIAM), Jaipur, (Rajasthan), DEE, NAU and KVK, Navsari jointly organized two days workshop on “Importance of agricultural marketing for livelihood security” at KVK, Navsari during 11-12 December, 2024.



Workshop on 'Importance of agricultural marketing for livelihood security' at KVK, Navsari

### 8.15 Campus Visit and Comfortable Homely Stay of the Farmers:

Large numbers of farmers from Gujarat, Maharashtra, Uttarpradesh and Rajasthan States are visiting NAU Navsari campus round the year to see and learn about new technologies developed and demonstrated on NAU farms. During the year, total 112 farm visits were conducted and 6132 farmers had visited the SSK and 4810 visitors had visited farms at NAU Campus. Total 3546 farmers and other visitors stayed at Kisanghar-farmers' hostel (2610 from Gujarat state and 936 from other states).

#### 8.15.1 Campus Visit



Visitors visiting units at NAU Campus



Visitors visiting SSK Team at NAU Campus



Visitors visiting PHT units at NAU Campus



On campus Farmers' Training programme at SSK

### 8.15.2 Amenities in Kisan hostel:



Clean and Comfortable Kitchen in Kisan Hostels



Clean and Comfortable Rooms in Kisan Hostels

### 8.16 Certificate courses on Bakery:

Bakery school, DEE, NAU, Navsari organized 20-week duration two certificate courses on bakery during the year. Total 31 students have participated in the training programme. Another Four skill-oriented training programme of one-week duration on baking were organized. Total 48 youth and farm women had participated in the one-week training programmes.



School of Baking, NAU, Navsari

### 8.17 Certificate course on Protected Cultivation (NH/GH): 10 days training:

Two certificate courses on Protected Cultivation (NH/GH) were organized in collaboration with the Department of Horticulture at ATIC, NAU, Navsari from 18–27 Sept and 9–18 Dec 2024, with participation of 46 and 57 farmers, respectively. The programmes

were inaugurated by Hon. Vice Chancellor Dr. Z. P. Patel, with Dr. H. R. Sharma (Director of Extension Education) and the Dean, College of Horticulture, also in attendance



Dr. Z.P.Patel ,Hon Vice Chancellor , NAU Address to the trainee



Certificate course on Protected Cultivation (NH/GH): 10 days training:

## 9. NEW INITIATIVES IN EXTENSION PROGRAMMES:

### 9.1 Awareness programme held at Navsari Agricultural University to authorize National Level Laboratory by NABL

An Awareness programme on "Authorization National level Laboratories" was organized by NABL under the Chairmanship of Dr. Z. P. Patel, Hon. Vice chancellor, NAU, Navsari on 03/07/2024. Dr. Bhumi Rajyaguru, Deputy Director, NABL, Ahmedabad was the Chief Guest of the programme, Dr. H. R. Sharma, DEE, NAU, Navsari and Shri Kiritbhai Patel, Joint Director of Agriculture were presided over the function. During the program Hon'ble Chancellor of Navsari Agricultural University, Dr. Z. P. Patel explained the benefits of accrediting the laboratory at the national level. Due to financial, administrative and personnel skills are regularly checked by NABL and accreditation of the NABL organization greatly increases the reliability of the laboratory results. The objectives behind conducting such programme at Navsari Agricultural University is to increase the efficiency of all the laboratories associated with Navsari District Agriculture Department. In this programme, Scientists of NAU, Staff of Line Dept. and students of NAU participated with keen interest and made the program successful.



Awareness programme held at Navsari Agricultural University to authorize National Level Laboratory by NABL at SSK, NAU, Navsari

## 9.2 Awareness Programme on E-Commerce Exports

The Directorate of Extension Education, NAU; KVK, Navsari; and FIEO, Ahmedabad jointly organized a Capacity Building Programme on 24/07/2024 at SSK, NAU, with 85 participants. Dr. T. R. Ahlawat presided over the event, attended by dignitaries from FIEO, DGFI, Amazon, Go Global Pvt. Ltd., and Postal Services. Experts guided participants on international business promotion and addressed challenges faced by exporters and related agencies.



Inauguration of Awareness Programme on E-Commerce Exports at SSK on 24/07/2024

## 9.3 EEI Sponsored Vocational Training

A three-days EEI Sponsored Vocational Training Programmes were jointly organized by the EEI, AAU, Anand DEE, NAU, Navsari, at KVK, Navsari, and Waghai from July-August, 2024. The programme was presided over by Dr. Z. P. Patel, Vice-Chancellor, NAU, Navsari. SMS, KVKs and teaching staff of NAU (Total 97 participants in three training) took part in the program.



EEI Sponsored Vocational Training at KVK, Navsari & Waghai

## 9.4 Training on Marketing Management of Agricultural Produces

DEE, NAU and KVK-Tapi jointly organized Training on Marketing Management of Agricultural Produces Sponsored by CSS NIAM, Jaipur during 2-3 January, 2025 at KVK-Tapi and total 100 farmers were participated.



Training on Marketing Management of Agricultural Produces

### 9.5 "Capacity Building Workshop for Technical Staff of KVKs"

A one-day workshop on "Capacity Workshop for Technical Staff of KVKs" was organized by the Office of the Director of Extension Education at Navsari Agricultural University on **06.03.2025**. The participants were acquainted through lectures on topics *viz.*, Biochar & its utility in agri., Impact Analysis of Ext. Activities and style of reporting & Documentation of Ext. Activities. The innovative extension works done by KVKs of the seven districts was presented. About 45 technical staff of KVKs of the seven districts of South Gujarat enthusiastically participated in the Workshop. done by KVKs of the seven districts was presented. About 45 technical staff of KVKs of the seven districts of South Gujarat enthusiastically participated in the Workshop.



## 9.6 Annual Action Plan Workshop of KVKs under jurisdiction of NAU and JAU for the year 2025

ICAR-ATARI, Pune was organized one day Annual Action Plan Workshop of KVKs of NAU & JAU Gujarat at Navsari Agricultural University, Navsari on 10<sup>th</sup> March, 2025. Dr. Z. P. Patel, Hon'ble Vice Chancellor, the President and Director, ATARI- Dr. S. K. Roy was the Chief Guest of this programme. Dr. N.B. Jadhav, DEE, JAU; Dr. H.R. Sharma, DEE, NAU; Dr. H.M. Virdia, Registrar, NAU; Sr. Scientists & Head of all 9 KVKs of JAU & 7 KVKs of NAU, Different faculty members and staff were present in the programme.



## 10 NATIONAL FLAGSHIP PROGRAMMES / CELEBRATIONS:

### 10.1 International Women's Day celebration

International Women's Day (IWD) being celebrated all over the world on 8<sup>th</sup> March. KVKs working under NAU, Navsari also celebrated the IWD 2024 on 8<sup>th</sup> March 2024 in the presence of dignitaries. The theme of the programme was "Digit ALL: Innovation and Technology for gender Equality "Empowering the women farmers Equality. Speech of dignitaries, Lecture of experts and different activities viz., Importance of Women in Agriculture, gender Equality, Cultural Events organized to encourage farm women, Technical lecture, Nari Sangam Prog. natural farming awareness, and exhibition stall, millet recipies, Mahila Shibir, ICT for Women's prosperity, Khedut Mahila Shibir *etc.* were organized. More than 1106 farm women were actively participated in the programme at different places.



Nari Sangam Programm for Celebration of International Women Day at KVK Surat & KVK Narmada

### 10.2 Celebration of Krishak Swarn Sammriddhi Week

A week-long celebration organized by Krishi Vigyan Kendras (KVKs) to commemorate the "Golden Jubilee Year" of the KVK system. These celebrations often feature activities like tree plantation drives, Khedut sibir, Exhibitions, Film show and awareness programs aimed at promoting sustainable agriculture and improving farmers' livelihoods. During this program about 1348 Farmers and 1439 farm women were participated.



Celebration of Krishak Swarn Sammriddhi Week at KVK, Waghai



Scientists delivering awerness lecture during the programme, KVK, Narmada

### 10.3 Celebration of Women in Agriculture day:

This day is an initiative of the Indian Council of Agricultural Research (ICAR) to honour the contributions of women in agriculture and address the challenges they face. In this programme mahila sibir , Exhibitions were organised at KVK.



Dr Z. P. Patel Hon.VC, NAU, Navsari addressing the participants during the programme at KVK Navsari



Stall Exhibition organised at KVK, Navsari

### 10.4 World Honey Bee Day

Government of India celebrating “World Bee Day” to raise awareness of the importance of pollinators, the threats they face and their contribution to sustainable development, on 20<sup>th</sup> May 2024. The theme for the year is "Bee inspired by nature to nourish us all". This theme highlights the crucial roles bees and other pollinators play in sustainable agriculture, food security, and the health of our planet's ecosystems. Different activities were organised at different places. During the programme 206 farmers and farm women participated



Beekeeping demonstrated at NAU, Navsari



Celebration of world honeybee day at KVK, Navsari

### 10.5 Celebration of International Yoga day:

International Yoga Day celebrates the physical and spiritual prowess that yoga has brought to the world stage. Participating in Yoga activities and meditation can help in enhancing mental health. The KVKs running under NAU organized various activities like *Pranayam, Meditation, Aasans, Yogasan*, Awareness programme on 21/06/2024 as International Yoga Day. Total 203 farmers and farm women and youths participated in the programme at different places.



Celebration of International Yoga day

## 10.6 Celebration of World Environment Day:

Government of India celebrating “World Environment Day” on 5<sup>th</sup> June 2024. Theme for 2024 was Land Restoration, Desertification and Drought Resilience, with the slogan “Our Land. Our Future, We are Generation Restoration”. The United Nations Environment Programme (UNEP) and the Kingdom of Saudi Arabia hosted the global celebrations. The theme emphasized the importance of restoring land, combating desertification, and building resilience to drought. Different activities were organised at different places. During the programme 216 farmers and farm women participated



Celebration of World Environment Day

## 10.8 Van Mahotsav:

In 2024, Van Mahotsav was celebrated during the first week of July, from the 1<sup>st</sup> to 7<sup>th</sup>, as part of annual tree-planting festival. This week-long event is dedicated to promoting afforestation and environmental conservation and emphasizing the importance of trees in combating climate change and promoting sustainability. During the programme 127 farmers and farm women participated at different places.



Van Mahotsav-2024

## 10.9 Celebration of 96<sup>th</sup> ICAR Foundation Day

Krishi Vigyan Kendras Under NAU, celebrated “96<sup>th</sup> ICAR Foundation Day” on July 16, 2024. Various activities like technology exhibition on precision farming, value-added products, kishan ghosti, Training, khedut sibir *etc* were organized by KVKs during the programme. The team of KVK guided to farmers on different subject *viz.*, Mango, vegetable farming, organic farming, plant protection, animal husbandry and Farm machinery. During this program about 203 Farmers & farm women were participated.



Celebration of 96th ICAR Foundation Day

## 10.10 Celebration of Parthenium awareness week

19<sup>th</sup> Parthenium Awareness Week was celebrated from August 16 to 22, 2024 by all KVKs NAU, Navsari.. The week was dedicated to raising awareness about the harmful effects of the Parthenium weed (*Parthenium hysterophorus*) and promoting its management. Total 238 farmers and farm women participated in the programmes at different places. KVK Scientists delivered lectures on all the aspects for creating awareness about parthenium weed. They highlighted that how it can be identified, how to control, and also its hazardous effects on human beings.



KVK, Surat with farming community joined in celebration of Parthenium awareness week



Scientist from KVK Waghai celebrating Parthenium awareness week

### 10.11 Celebration of National Nutrition Month:

Programme is focused on promoting healthy eating and physical activity habits. It's an opportunity to educate the public about the importance of making informed food choices and building long-term healthy habits.



Celebration of National Nutrition Month at KVK Vyara and KVK, Surat



### 10.12 Celebration of Mahila Kisan Day:

Krishi Vigyan Kendras celebrate the day by organizing programmes viz. debates, Lecture, Mahila shibir and exhibition, etc. on the themes like role of women in agriculture, women empowerment, nutrition and income generation. Total 466 farm women participated in the programmes at different places.



Celebration of Mahila Kisan Diwash KVKVyara & KVK Surat

### 10.13 Celebration of World Food Day:

The World Food Day organised on 16<sup>th</sup> October, 2024 theme was "Water is life, water is food". Leave no one behind. With focus on production and consumption of safe food that will benefit the people, economy, and the planet in the long run. KVK organised Mahila shibir, Lecture on Marketing strategies of food grains. Total 228 farmers and farm women participated in the programme.



Awareness program on Marketing strategies at KVK Surat



KVK Vyara Scientist delivering lecture to the participants

### 10.14 Celebration of World Soil Day:

The "World Soil Day" celebrated by KVKs of NAU on 5<sup>th</sup> December, 2024. The theme for World Soil Day 2024 is "Caring for Soils: Measure, Monitor, Manage". This theme emphasizes the importance of accurate soil data and information for understanding soil characteristics and supporting informed decision-making on sustainable soil management for food security. Total 169 farmers and farm women participated in the programmes.



KVK, NAU, Waghai addressing the women participants during the programme



Celebration of International women's day at KVK, Dediapada

### 10.15 Celebration of National Kisan Divas:

The KVKs running under NAU celebrated Kisan Day on 23<sup>rd</sup> December, 2024. Various activities were organized by KVKs during the programme viz., Lecture on Kisan day, Farm Visit and Group Discussion, Kisan gosthi and information and importance of Pre-planning cultivation of summer crops *etc.* Total 228 farmers and farm women participated in the programmes at different places.



Celebration of National Kisan Divas

### 10.16 Swachhta Hi Seva Abhyan:

“Swachhta Hi Seva Abhyan 2024” was celebrated from September 14<sup>th</sup> to October 1<sup>st</sup>, 2024 on the theme of “Swabhav Swachhata – Sanskar Swachhata”. The Swachhta Hi Seva Abhyan 2024 aims to create greater awareness about the importance of cleanliness and environmental stewardship. Several activities like street cleaning, wormi bed preparation from agril waste, Swachhta Awareness Campaign, vermicomposting and training on Swachhta Pakhwada were organised. Total 2642 farmers, farm women and rural youths participated in the programmes.



Activities conducted at KVKs on Swachhta hi Seva Abhyan

## 10.17 Farmer FIRST Programme (FFP)

*(Ensuring Livelihood Security for Small and Marginal Farmers of South Gujarat)*

Farmer FIRST project (FFP) entitled “Ensuring Livelihood Security for Small and Marginal Farmers of South Gujarat” is being implemented in Pathri, Hansapore and Chijgam villages covered 713 households of Navsari district with six modules under the Directorate of Extension Education since 2016-2017. From 2022-23, this programme is being implemented in three new villages viz., Kesali, Vadsangal and Changa in Gandevi taluka of Navsari district comprising 212 households. Different activities were organized during the period viz., training and distribution of critical inputs to the participating farmers under the project.

The Farmer FIRST Programme (FFP) aims to enrich the knowledge and attitude of small and marginal land holders by imparting skills in their existing methodologies and replenish the existing farming systems with holistic developmental interventions. Further, the incorporation of these interventions would certainly augment the income of the small and marginal land holders & provides more employment in a sustainable way.

### 10.17.1 Kisan Ghosti on Scientific cultivation of Rice

A kisan ghosti on Scientific cultivation of Rice was organised under FFp on 5.6.2024 at SSK training hall. Dr. N. M. Chauhan, Director of Extension Education discuss about brief information about Scientific cultivation of Rice and also told how to take maximum benefits from rice cultivation by appropriate management and adequate cultural practices. Total 41 farmers including 23 women farmers from four villages namely; Vadsangal, Kesali, Chijgam and Hansapore had participated in the programme.



kisan ghosti was organised under FFp on 5.6.2024 at SSK training hall.

### 10.17.2 Training under IFS & Horticulture based module:

Organized training on “Training under IFS based module” under dated 13.06.2024 at Vadsangal & kesali under FIRST Programme. Total 50 farmers participated.



Training under IFS based module

## 11. MEGA EVENTS:

### 11.1 Mega Krushi Mela 2024:

A three-day Mega Krushi Mela, jointly organized by Navsari Agricultural University (NAU) and SASMIRA, Ministry of Textiles, was inaugurated on December 21, 2024, by Shri C. R. Paatil, Hon'ble Minister of Jal Shakti. The event showcased technologies from NAU and various organizations, featuring 123 stalls. Dignitaries including Gujarat's Agriculture Minister Shri Raghavjibhai Patel, NAU Vice-Chancellor Dr. Z. P. Patel, local MLAs, and officials from the Textile Ministry and Navsari district administration attended the inauguration. The mela, held from December 21–23, 2024, attracted around 40,000 farmers.



Mega Krushi Mela 2024

## 12. AWARDS RECEIVED:

### 12.1 Farmer Award:

#### 12.1.1 “Best Farmer (Female) Award” 2024:

Smt. Sharmilaben Harisingbhai Chaudhri, Village: Gamtalav, (Khurd) Ta. Mandvi, Dist: Surat received “Best Farmer (Female) Award” felicitated by Hon’ble Governor of Gujarat Shri Acharya Devvratji in the 20<sup>th</sup> Convocation of NAU, Navsari on 7<sup>th</sup> January, 2025 for her distinguished work and contribution in the field of “Marketing and Value Addition in fruit crops”.



#### 12.1.2 “Best Farmer (Male) Award” 2023:

Mr. Jigarbhai Pravinbhai Desai, AJAJI Farm, Shiker, Ta. Valod, Dist: Tapi received “Best Farmer (Male) Award” felicitated by Hon’ble Governor of Gujarat Shri Acharya Devvratji in the 20<sup>th</sup> Convocation of NAU, Navsari on 7<sup>th</sup> January, 2025 for his distinguished work and contribution in the field of “Organic Farming”.



#### 12.1.3 District Millionaire Farmers of India Award-2024:

Shri Bharatbhai Aodhabhai Godhani, C-55, Sadhna Society, behind Varachha Police station, Surat and Dhirenbhai Bhanubhai Desai, Village: Panetha, Tal: Jhagadiya, District: Bharuch were felicitated with “District Millionaire Farmers of India Award-2024” by Krishi Jagran at IARI, Pusa, New Delhi on 3<sup>rd</sup> December, 2024 for profitable cultivation of Dragon fruit and profitable cultivation of Banana, respectively.



**District Millionaire Farmers of India Award-2024 at IARI, Pusa, New Delhi**

**12.1.4 Best Innovative Farmers Award 2024:**

Shri Bharatbhai Aodhabhai Godhani, Varachha, Surat was awarded with the “Best Innovative Farmer Award” in SEEG, AAU at NAU, Navsari during National Seminar on “Agricultural Extension for Viksit Bharat” on 27-28 December, 2024 for Profitable Cultivation of “KAMALAM” fruit.



**Best Innovative Farmers Award 2024**

### 12.1.5 Best Innovative Farmers Award 2024:

Shri Sukharam Punyabhai Palva, at: Kotba Ta. Ahwa, Dist Dangs was awarded with the Best Innovative Farmer Award in SEEG, AAU at NAU, Navsari during National Seminar on “Agricultural Extension for Viksit Bharat” on 27-28 December, 2024 for Cultivation of several Desi Paddy through Natural farming.



**Best Innovative Farmers Award 2024**

### 12.1.6 Best ATMA Farmers Award 2024:

Shri Natvarbhai Somabhai Patel, Abrama, Ta. Jalalpore Distt. Navsari was awarded with the “Best ATMA Farmer Award” by ATMA SAMETI, Gandhinagar from Shri R.C. Patel, MLA, Jalalpore on the occasion of Rabi Krushi Mahotsav-2024.



**Best ATMA Farmers Award 2024**

### 12.1.7 Dhartiputr Award 2024:

Smt. Belaben Natvarlal Patel, Abrama, Ta. Jalalpore Distt. Navsari was awarded with the “Dhartiputr Award: 2024” on 11.02.2024 by The Southern Gujarat Chamber of Commerce and Industry, Surat at SIECC, Sarthana, Surat.



**Dhartiputr Award 2024**

### 12.1.8 Innovative Farmer Award under Farmer First Programme (FFP)

Shri Nareshbhai Patel, Ta. Gandevi, Navsari was awarded “Innovative Farmer Award” under Farmer First Programme (FFP) by NAARM on the occasion of 49<sup>th</sup> foundation day of NAARM, Hyderabad on 01/09/2024.



**“Innovative Farmer Award” under Farmer First Programme (FFP)**

## 12.2 Faculty Award:

### 12.2.1 Best Extension Scientist Award- 2024:

Dr Jigneshkumar B. Dobariya, Scientist KVK, NAU, Waghai Dist.: Dangs was received “Best Extension Scientist Award” 2024 by the Hon’ble Governor of Gujarat Shri Acharya Devvratji in the 20<sup>th</sup> Convocation of NAU, Navsari on 07/01/2025 for her distinguished work and contribution in the Extension Education.



**Best Extension Scientist Award- 2024**

### 12.2.2 Indian Best Achievement Award: 2024

Dr. Sumit Shalunke, Scientist, KVK, Navsari was received “Indian Best Achievement award- 2024” by Fair Vision Foundation, Govt. of India , New Delhi on 30<sup>th</sup> April, 2024 for outstanding contribution as a social worker for uplift and empower the community.



### 12.2.3 Best Presentation Awards:

Dr. J. H. Rathod, Senior Scientist & head, at KVK, NAU, Surat was conferred “Best Presentation Award” on 6<sup>th</sup> September, 2024 in 7<sup>th</sup> Annual Zonal Workshop of KVKs by ICAR-ATARI, Pune organised at Junagadh Agril. University, Junagadh.



Best Presentation Awards

### 12.2.4 Young KVK Scientist Award 2023:

Mrs. Bhakti Panchal, Scientist (Horticulture), KVK, Surat was felicitated with “Young KVK Scientist Award 2023” on 23-25/10/2024 by AEDS, Uttaranchal University, Dehradun, Uttarakhand.



Young KVK Scientist Award 2023

### 12.2.5 Best KVK Scientist Award:

Dr. J. B. Butani, Scientist (Animal Science) KVK, Vyara, Dist : Tapi was awarded with “Best KVK Scientist Award” on 21-23 March, 2025 in National Conference on "Biovision 2025: Innovations & Applications in Bio technology” organised by Department of Biotechnology, 360 Research Foundation held at Raxaul, Bihar, India.



### 12.2.6 Best Presentation Award:

Dr. Geeta Bhimani, Scientist, KVK, NAU, Surat was awarded with "Best Presentation Award" on 5-6, July, 2024 in Fourth National Seminar of the Society of Krishi Vigyan organized by JNKV, Jabalpur.



## 12.2.7 Best Popular Article Award

Dr. Dharmishtha M. Patel, Scientist (Horticulture) KVK, NAU, Tapi awarded "Best Popular Article Award" by Anand Krishi University, Anand, on 9<sup>th</sup> April, 2024.



## 13. PUBLICATIONS:

### 13.1 Research Papers:

Sr. No.	Details of Publications	NAAS rating
1.	Rahul L Joshi, Hemant Sharma, Vaibhav Kumar M. Mehta, Sunil K. Patel., Kirinal Bambhoroliya. (2025). <i>Azadirachta indica</i> derived copper oxide nanoparticles: a sustainable approach for reducing post-harvest losses and enhancing mango quality. <i>Food Chemistry</i> 480:143625.	14.80
2.	N. K. Gajre, R. C. Patel, N. B. Gohil, S. G. Parmar, Pushpendra Singh, Hemant Sharma, D. K. Sharma and S. J. Patil. (2025). <i>International J. Agri. and Food Sci.</i> ; 7(2): 151-155.	4.97
3.	Kavad, S. D. and Pandya, R. D. (2024). A Scale to Measure Marketing Behavior of Farmers. <i>Guj. J. Ext. Edu.</i> 38(2):1-6.	5.30
4.	Kavad, S. D., Kumbhani, S. R. and Lad, M. D. (2024). Group Dynamics of Farmer/Community Interest Groups Working Under ATMA. <i>Guj. J. Ext. Edu.</i> 38(2):51-58.	5.30
5.	Kavad, S. D. and Pandya, R. D. (2024). Perception of Farmers About the Role of APMC in Market-Led-Extension. <i>Guj. J. Ext. Edu.</i> 38(2):153-158.	5.30
6.	Vipasha D. Dangariya; Tandel, B. M. and Bhatt S. T. (2024). Fruit bagging effect on physico-chemical quality and shelf life of dragon fruit varieties. <i>Plant Archives</i> . Vol.24, No.2, 2024 pp.2063-2070.	5.59
7.	Tiwari, M. V. and Poshiya, V. K. (2024). Knowledge level of farmers on climate Resilient Agro-technologies in NICRA village. <i>Gujarat Journal of Extension Education</i> . Vol: 37 (1).	5.30

8. Jinjala V. R., Gudadh N. N., Sonal Tripathi, Chudasama S. D. and Ninama A. R. **5.16**  
(2024). Influence of iron and zinc biofortification on growth and yield of drilled rice (*oryza sativa* l.). *International Journal of Environment and Climate Change*. Vol. 10, Issue 14, Page 141-156.
9. Kemekar Pavankumar and S R Salunkhe; (2024). Attitude of Navsari University Agricultural University students towards application of distance education. *applied Extension Journal*. 7(9), Sepetmber-2024, pp.218-222. **5.30**
10. Kemekar Pavankumar and S R Salunkhe; (2024). Profile and constraints feaced by the beneficiaries of farmer first programme *and applied Extension Journal*. 7(9), Sepetmber-2024, pp.155-160. **5.30**
11. Kemekar Pavankumar and S R Salunkhe; (2024). Impact of farmer first programme on livelihood security of small and marginal farmers *and applied Guj.J. Extension Education Journal*. 37(1), June-2024, pp.52-53. **5.30**
12. Prajapaati, H.A., Impact of Climate change on Global Agriculture: Challenges and Adaptation, *International Journal of Environment and climate change* 18.04.2024. **5.16**
13. Gurjar, Tulsi D.; Patil, S. J.; Chaudhari, Darshana B.; Panchal, Bhakti; Pandey, A.K. and Patel, Henaxi (2023). Response of novel organic liquid fertilizer with micronutrient application on quality of Banana Cv. Grand Nain. *Current Advances in Agricultural Sciences*,15: 327-329. **4.73**
14. Gurjar, Tulsi D.; Chaudhari, Darshana; Tandel, Y. N.; Panchal, Bhakti; Pandey, A.K. and Parmar, V. K. (2023). Leaf nutrient status and fruit quality of Alphonso mango as influenced by micronutrients. *Current Advances in Agricultural Sciences*,15: 449-451. **4.73**
15. Patel, Henaxi; Singh, Alka; Panchal, Bhakti; Shah, H. P.; Bhandari, A.J. and Patel, N.B. (2024). Effect of plant growth retardants on potted hibiscus. *International Journal of Advanced Biochemistry Research*, 8 (12): 930-933. **5.29**
16. Patel, R. K., Pandya, J. R., Desai, H. R., Patel A. R. and Chaudhari, K. N. (2024). Evaluation of cotton (*Gossypium hirsutum* L.) varieties/genotypes for jassid, *Amrasca biguttula biguttula* (Ishida)resistance under rainfed conditions. *International Journal of Plant and Soil Science*, 36(3), 23-34. DOI: 10.9734/IJPSS/2024/v36i34395 (ISSN: 2320-7035) **5.07**
17. Sandipan, P. B., Patel, P. S., Patel, R. K. and Patel, M. C. (2024). Effectof different fungicides against the boll rot and foliar disease of cotton under South Gujarat of India. *Biological Forum- An International Journal*, 16(5), 85-91. (ISSN: 0975-1130) (NAAS Score: 4.96) **4.96**
18. Sangani, P., Sandipan, P. B., Patel, R. K., Patel, P. S., Ruwali, P., *et. al.* (2024). Evaluation of different pH on the growth of *Corynespora cassiicola* of cotton. *Journal of Plant Development Sciences*, 16(9), 361-367. (ISSN: 0974-6382) (NAAS Score: 4.35) **4.35**

- 19 Chavan, S. M., Shinde, C. U. and Pandya, C. D. (2024). Studies on Sugarcane Shoot Borers in South Gujarat. *Biological Forum- An International Journal*. 16(1), pp.156-160. **4.96**
20. Rana, K. N., Dhodia, A. J., Jadav, H. R. and Pandya, C. D. (2024). *International Journal of Research in Agronomy*, 7(8), pp.201-204. **4.38**
21. Ramani, Mayur P., K. M. Gediya, K. N. Rana, and Maheshvari M. Birari. (2024). *International Journal of Plant & Soil Science*. 36(8), pp. 817-822. **5.07**
22. Butani, J. B., Dhodia, A. J. and Rana, K. N. (2024). Adoption of Scientific Breeding Management practices by Tribal Goat Keepers. *Gujarat Journal of Extension Education*. 38(1), pp.59-62. **5.30**
23. Bhuva, R. M., Kumbhani, S. R. and Dhodia, A. J. (2024). Attitude of the Employees about ICTs Apparatus for Exploring Agricultural Information. *Gujarat Journal of Extension Education*. 38(1), pp.150-153. **5.30**

## **12.2 Book(s)/ Proceedings/ Book of Abstract/Souvenir:**

1. Durgga Rani. V, R.S. Ghasura, Deepti Nayak, J.B. Dobariya, Impact of frontline demonstration of new variety (Var. Gnib 21/Nps 1). Use of bio fertilizers and Novel Organic liquid nutrient on yield of Indian Bean in the Dangs district of Gujarat, Compendium of National Seminar 2024 on "Agricultural Extension for Viksit Bharat: Innovations and Strategies for Sustainable Development, 27 & 28 December 2024.
2. Durgga Rani. V, R.S. Ghasura, Deepti Nayak, J.B. Dobariya, Constraints and suggestion in aspiration of educated youths towards agricultural enterprises of Gujarat state, Compendium of National Seminar 2024 on "Agricultural Extension for Viksit Bharat: Innovations and Strategies for Sustainable Development, 27 & 28 December 2024.

## **12.3 Leaflets/ Brochure/ Extension literature/ Book Chapters in National and International Books:**

1. Dr. K.A. Shah, Dr. Nilesh Kavadi, Smt. Nital N. Patel, Shri Pradip G. Rathawa. *Siyalu Kathol Pakoni vignanik khetipadhdhati*. NAU, Pub.No.NAU/04/04/090/2025
2. Smt. Dixita Prajapati, Dr. K.A. Shah, Dr. Sumit Salunkhe, Dr. A. N. Lad. *Kitchen Garden*. NAU, Pub.No.NAU/04/04/091/2025
3. Smt. Dixita Prajapati, Dr. K.A. Shah, Dr. Sumit Salunkhe, Dr. A. N. Lad. *Kel ni vignanik kheti padhdhati*. NAU, Pub.No.NAU/04/04/092/2025
4. Smt. Nital N. Patel, Dr. K.A. Shah, Dr. Sumit Salunkhe, Shri Pradip G. Rathawa. *Mari-Masala ne Banavat*. NAU, Pub.No.NAU/04/04/093/2025
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15. Mr. H.A. Prajapati: Khetima mycorrhiza ni agtyata, Krushi Jivan, Varsh 56, Ank-11, Salang ank-668, June, 2024
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