

EXTENSION EDUCATION

Annual Report

Year: 2022-23



કૌશલ્ય મહર્ષિઃ

NAVSARI AGRICULTURAL UNIVERSITY

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EXTENSION EDUCATION

● ANNUAL REPORT 2022-2023 ●

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Directorate of Extension Education
Navsari Agricultural University
Navsari-396450

ANNUAL REPORT 2022-23

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 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	4	0
4	Agricultural Officer	3	3	0

5	Agriculture Supervisor	1	1	0
6	Agricultural Assistant	2	2	0
	Total	12	12	2

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
	● 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
	● 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, Dediyapada



Agriculture Educational Museum (Educatorium)



Sardar Smurti 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: 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 (Weekly)	20
4.	Plant tissue culture training centre for women: Surat	Certificate	6 Months	10
5.	Turf grass management: Navsari	Certificate	6 Months	20
6.	Agro ITI: Navsari	Certificate	1 to 3 Months	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 week	40

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

- | | |
|-----------------------|---|
| 1. Seed production | 9. Gender friendly equipments for farm women |
| 2. Organic farming | 10. Farm power machinery |
| 3. Kitchen gardening | 11. Bio-fertilizers & Bio-pesticides |
| 4. Farm management | 12. Soil-Water-Plant analysis |
| 5. Dairy farming | 13. Productive & beneficial insects |
| 6. Flower dehydration | 14. Commercial Mushroom production technology |
| 7. Tissue culture | 15. Artificial insemination |
| 8. Poultry farming | 16. Micro irrigation system |

7.4 Ongoing Extension Schemes: *Extension activities through 33 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	12138	Vegetable & Fruit Crops Demon. Scheme for Tribal Upliftment, Paria
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	18146	Certificate in Agricultural Extension Services for Input Dealers, Navsari
5	18199	Certificate Course on Integrated Nutrient Management for Fertilizer dealers
6	18223	Certificate course on Insecticides Management for Insecticides Dealers/ Distributers
7	18121	Krusha Library, Navsari
8	18160	Farmer FIRST Programme
S.N.	B.H.	ICAR (06)
1	2704	Krusha Vigyan Kendra, NAU, Vyara, Dist.-Tapi
2	2704	Krusha Vigyan Kendra, NAU, Navsari
3	2704	Krusha Vigyan Kendra, NAU, Dediya Pada, 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	Krushi Vigyan Kendra, NAU, Waghai, Dist Dangs	 <p>Krushi Vigyan Kendra, Waghai, Dist</p>
Year of establishment:	1985	
Area of Jurisdiction:	Dang district, Gujarat	

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

3.		
Name of KVK	Krushvi Vigyan Kendra, NAU, Narmada, Dist : Narmada	
Year of establishment:	2007	
Area of Jurisdiction:	Narmada district, Gujarat	

4.		
Name of KVK	Krushvi Vigyan Kendra, NAU, Navsari , Dist : Navsari	
Year of establishment:	2008	
Area of Jurisdiction:	Navsari district, Gujarat	

5.		
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	371	9747	12650	2722	22397
2.	Off campus Farmers' Training programme	259	5392	4946	1014	10338
3.	Training for Extension functionaries	29	677	334	78	1011
4.	Seminar / Workshop / Symposium for Farmers	41	5523	2886	789	8409
5.	Seminar / Workshop / Interface/ Symposium for Extension Officers	9	246	404	56	650
6.	Farmers' day / Field day	75	1848	2321	425	4169
7.	Agril. Fair / Agril. Exhibition	70	10364	8360	1526	18724
8.	Farmer shibir / Farm women shibir	108	29096	22157	2337	51253
9.	Farmers' meeting/Krushi gosthi	151	8154	7545	924	15699
10.	Front Line Demonstrations (KVKs)	739*	2171	2903	562	5074
11.	Adaptive trials (NAU technologies)	1030*	3200	3209	598	6409
12.	On Farm Trials	32*	203	100	32	303
13.	AICRP Demonstrations	1011*	5805	--	580	5805
14.	Demonstrations (Research Stations)	5*	20	--	5	20
15.	Exposure visit of the farmers	73	3113	2301	252	5414
16.	Diagnostic team visit on farmers' field	525	1148	1289	192	2437

17.	Veterinary Clinic Camp/ Animal Husbandry Shibir	28	2321	2227	323	4548
18.	Text SMS sent on farmers' mobile	1323	238185	39314	28898	277499
19.	Telephonic / e-mail guidance	9958	21243	8258	2851	29501
20.	Press-notes / Articles in vernacular Newspapers	324	Mass	Mass	Mass	Mass
21.	Radio & TV talk	22	Mass	Mass	Mass	Mass
22.	Farm Literature Publication	77	17694	19207	3282	36901
23.	Visitors (dignitaries, officers, farmers, students)	5474	13912	11276	1788	25188
24	Film Show	174	2376	5141	572	7517
25	Celebration of important days	124	4673	6967	1018	11640

* 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	1	1230
2	Sugarcane Crop	2	923
3	Fruit Crops	3	210
4	Flowers	2	256
5	Vegetable Crops	2	168
6	Pulse Crops	3	432
7	Integrated Pest & Disease Management	3	568
8	Post Harvest Technology	2	192
9	Green House Technology	2	96
10	Soil and Water Management	2	303
11	Agriculture farm Machinery	2	256
12	Animal Husbandry	3	738
13	Value Addition	4	944
14	Natural / organic farming	6	1956
15	Fishery and its Marketing	1	78
16	Prawn/Shrimp cultivation and its Marketing	1	59
Total		41	8409

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 5074 FLDs in 739 ha. and 6128 other demonstrations in 1048 ha. were conducted on farmers' fields under the close supervision of the NAU Scientists.

SN	Crop	No.of Demon	Area(Ha)
1	Paddy	1985	289
2	Sugarcane	149	22
3	Pigeon pea	683	99
4	Gram	617	90
5	Green gram	428	62
6	Nagli	110	16
7	Sweet corn	75	11
8	Okra	347	50
9	Groundnut	185	27
10	Maize	163	24
11	Mango	113	16
12	Sapota	65	9
13	Cashew	83	12
14	Turmeric	72	11
Total		5074	739



FLD on Elephant foot var : Gajendra



FLD on Greengram GM 6



FLD on Twin Wheelhoe

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 the year 2022-23, total 1030 adaptive trials were conducted on the farmer's fields through five KVKs (Navsari, Vyara, Waghai, Dediapada and Surat) in South Gujarat on newly released varieties of Paddy, Pigeon pea, Cotton, Wheat, Castor, Green gram, Gram, Indian bean, Okra, Chickpea, Fodder Sorghum, Okra, Little gourd, Pointed gourd, Bitter gourd, Black gram, Dragon fruit, Drumstick, Lemon, Cucumber, Mango, Banana, Conocarpus, Ajwain were conducted. Other Demonstration on ICM, INM, IPDM, Novel organic liquid nutrient, Liquid Bio-fertilizer, Storehouse Fruit fly Trap with Culture, Pheromone trap, Mineral Mixture, Kitchen garden, Poultry, Paddy thresher, Hand weeder Mushroom Rubber Mat, Punjethi (Rack), Winnowing Fan, Plastic Jari, Stalk Puller were also conducted.



Adaptive trial-Paddy(GRH-2)-Kharif-2022 by KVK, Tapi



Adaptive trial on GR-15 by KVK, Navsari



Adaptive trial on COTTON H-12 by KVK Narmada



Adaptive trial-Fodder sorghum-Tapichari (CSV-41)-Dhat by KVK, Tapi

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

The Directorate of Extension Education convened the "ATMA Convergence" quarterly meetings under the Chairmanship of Hon. Vice-Chancellor of NAU for facilitating an interface between KVKs, PDs (ATMA), DAOs and Scientists of NAU. 31st, 32nd Quarterly Interface Convergence Meeting was organized in the presence of Dr. N. H. Chauhan, Director Of Extension Education at ATIC, NAU, Navsari on 4/5/2022 and 1/10/2022, respectively.

33rd ATMA Convergence meeting was held on 30/01/2023 under the chairmanship of Hon'ble Vice Chancellor Dr. Z. P. Patel at ATIC, Navsari.



Dr N M Chauhan, Director of Extension Education, NAU and members during 32nd ATMA Convergence Quarterly Meeting



Dr Z P Patel, Hon Vice Chancellor, NAU and members during 33rd ATMA Convergence Quarterly Meeting

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, Aug.-Sept., 2022	ATIC, NAU	26-27/07/2022	15
2	Bimonthly workshop, Nov.-Dec., 2022	ATIC, NAU	05/11/2022	16
3	Bimonthly workshop, Jan. -Feb., 2023	ATIC, NAU	30/01/2023	23
4	Bimonthly workshop, March. - April.,2023	ATIC, NAU	10-11/02/2023	27



Dr Z.P.Patel, Hon, Vice Chancellor, NAU, Navsari discussing with the participants during workshop

8.7 Zonal Research and Extension Action Committee (ZREAC) Meetings:

Directorate of Extension Education organized one ZREAC Meeting to review the work done in last season and to make the planning 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 presented by the concerned Department for all the seven Districts of South Gujarat. During the year 2022-23, the 33rd ZREAC meeting was convened on 18-10-2023.



Dr.T.R.Ahlat, Director of Research, NAU, addressing the house during 33rd 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 of five KVKs run under NAU were organized as under:

S.N.	Name of KVK	Date of meeting
1	KVK, Vyara (Tapi)	07-01-2023
2	KVK, Waghai (Dang)	07-01-2023
3	KVK, Navsari (Navsari)	11-01-2023
4	KVK, Surat (Surat)	11-01-2023
5	KVK, Dedyapada (Narmada)	13/02/2023



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 Review meeting of KVKs

Three Review meeting of all the 7 KVKs under NAU was held under the Chairmanship of Dr. N. M. Chauhan, Director of Extension Education, NAU, Navsari during the period at NAU, Navsari. 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 the meetings Senior Scientist & Head of all the 7 KVKs along with scientists were remain present.



Dr N.M. Chauhan, DEE & Dr. Chirag Naik, Comptroller, NAU, Navsari discussing with participants in the Review meeting.

8.10 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 5617 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.



Accreditation team, ICAR visit to Agricultural Educatorium



Farm women visiting Agricultural Educatorium



Students visiting Agricultural Educatorium



Farmers visiting Agricultural Educatorium

8.11 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 71 farm visits were conducted and 7084 farmers had visited the SSK and 2505 visitors had visited farms at NAU Campus. Total 5298 farmers and other visitors stayed at Kisanghar-farmers' hostel (4697 from Gujarat state and 601 from other states).

8.11.1 Campus Visit



Visitors visiting units at NAU Campus



Visitors visiting PHT through SSK Team at NAU Campus



Visitors visiting units at NAU Campus



On campus Farmers' Training programme at SSK

8.11.2 Amenities in Kisan hostel



Clean and Comfortable Kitchen & Rooms in Kisan Hostels

8.12 Certificate courses on Bakery

Bakery school, DEE, NAU, Navsari organized 20 week duration two certificate courses on bakery during the year. Total 28 students have participated in the training programme, an exposure visit to South Gujarat's largest Bakery Chain- BREAD LINER, Surat, & "Swastik Bakery", Bardoli- a wellknown Bakery Unit were conducted to provide skill based knowledge to design the custom cake and demonstrate the Qualitative bakery products to the students. Another Five skill-oriented training programme of one-week duration on baking were organized. Total 33 youth and farm women had participated in the one-week training programmes.



Dr. N.M. Chauhan DEE addressing the trainees of the course during farewel cerimoney of 69th bathc of Bekary certificate course



Students preparing bakery product

8.13 HRD programme for Scientists of KVKs and NAU faculties

Extension Education Institute, AAU, Anand and Directorate of Extension Education, NAU, Navsari jointly organized an off-campus training programme on "Use of Mass Media and Social Media Skills for Extension functionaries" during 25-27 May 2022 (3 days) at Agricultural Technology Information Centre (ATIC), NAU, Navsari. In which total 31 Scientists were participated. Training was inaugurated by Dean Principal, NMCA, Dr. R.D. Pandya, Course Director Dr. K.V. Gardhariya, Training Associate Dr. G.B. Kalriya & Course Co-ordinator Dr. V. K. Desai. Impart the knowledge by Scientists of EEI on Social Media-a digital Approach, Indigenous Technological Knowledge, e-Extension Through video Conferencing, PPP & Contract Farming, FPOs and Basic of Graphics Designing for Electronic Media.



Training programme for Scientists Organized by EEI, Anand & Dean, NMCA, NAU, Navsari



8.14 Twelve-week Certificate course on pesticides Management

Agriculture Technology Information Centre (ATIC), DEE, NAU, Navsari organized 12 week "Certificate course on Insecticides Management for Insecticides dealers/Distributors" during 04/02/2022 to 21/05/2022 under the guidance of Dr. C. K. Timbadiya, Director of Extension Education for South Gujarat region. Total 29 Dealers successfully participated in the course.



Valedictory function of 12 weeks certificate course on 'Insecticides Management for Insecticides Dealers/Distributors' was organized by ATIC, Navsari in the presence of Hon'ble Vice Chancellor Dr. Z. P. F and DEE, Dr. C. K. Timbadiya on June 21, 2022

8.15 Certificate course on Protected Cultivation (NH/GH): 15 days training:

Certificate course on Protected Cultivation (NH/GH): 15 days training was organized on 29/06/2022 to 13/07/2022 at ATIC, NAU, Navsari in which 24 farmers were participated. Training was inaugurated by Director of Extension Education Dr. N. M. Chauhan. Course Co-ordinator was Dr. G.B. kalaria Training Associate, ATIC.



Dr. N.M. Chauhan, DEE, NAU handover the Certificate to the trainee



Field visit on flower crops for Protected Cultivation

8.16 State level Training extension fuctionaries under NFSM :

State Level Trainings on Cash Crop Sugarcne Under NFSM were organised for Extension Functionaries on 10-11/02/2023 at ATIC, NAU In collaboration with DAO, Navsari and Bharuch with 32 Participants. In this Training JDA Mr. K.V. Patel & DAO, Navsari were present.



State Level Training on Cash Crop Sugarcane for extension fuctionaries under NFSM

8.17 Extension Education Council meeting

Extension Education Council is a statutory body consisting of the Vice-Chancellor as its chairman and Director of Extension, Director of Research, Deans, University Officers, Heads of the Line Departments, Extension Educationist, Innovative Farmers and Experts in the field of extension as the members. The council meets at least once in a year to review the work, discuss and deliberate the policy issues on extension system and formulate the technical programme for different units of the Directorate of Extension Education. During the year, the thirteenth meeting of Extension Education Council was held on June 22, 2022 at Navsari (offline and online) under the chairmanship of Dr. Z.P. Patel, Hon'ble Vice Chancellor, NAU, Navsari.



Dr. Z.P. Patel, Hon. Vice Chancellor, DR, Dr. C.K. Timbadia, DEE and other members in the meeting

8.18 Training on “Value addition in Mango”

Training on “Value addition in Mango” was organized under Agro ITI during 24th May, 2022 at Centre of Excellance on Post Harvest Technology, NAU, Navsari in which 21 farm women were participated. Dr. Jilen Mayani practically demonstrated detailed process of making Nacter of kacha aam and pickles.



Training on Value addition in Mango State Level Training on Cash Crop Sugarcane for extension functionaries under NFSM

9. NEW INITIATIVES IN EXTENSION PROGRAMMES

9.1 Workshop on "Capacity building on new emerging technologies for technical staff of KVKs"

Directorate of extension education organized workshop on "Capacity building on new emerging technologies for technical staff of KVKs" on the occasion of celebrate of "Azadi ka Amrut Mahotsav" to commemorate 75 years of India independences during 15-17 Sep 2022 at SSK, Hall in presence of Dr. Z .P .Patel, Hon'ble vice chancellor of Navsari agricultural university, Dr. T. R. Ahlawat, Director of research, NAU, Navsari, Dr. P. T. Patel, Director of Extension Education, SDAU, Dr. N. M. Chauhan, Director of extension Education, NAU, Navsari, Dr. R. M. Naik, Principal and Dean, NMCA, Navsari. South Gujarat KVKs technical staff and university officers remain present. In presidential address Dr. Z. P. Patel, Hon'ble vice chancellor of Navsari Agricultural University, NAU, Navsari emphasis on popularizing the university technology such as pheromone trap, novel, bio-fertilizer, bio-pesticide, improve variety etc. He also focus on community group approach useful for transfer of technology in root level and end users and seven scientist of south Gujarat KVK felicitated by Hon'ble Vice Chancellor. Chief guest Dr. T. R. Ahlawat, Director of Research, NAU, Navsari highlights the one district one product and farmer scientist interaction. He urge the scientist on crop diversification and crop productivity. Total 75 participants have participated in workshop.



Inaugural ceremony of Capacity building workshop in presence of Hon'ble V. C sir Dr. Z. P. Patel sir



Hon'ble V. C sir Dr. Z. P. Patel sir felicitating the participant



Hon'ble V. C sir Dr. Z. P. Patel addressing the KVK's technical staff



Filed visit at Banana Pseudo stem project

9.2 FPO Capacity building program

Hon'ble member of the legislative assembly (MLA) Shri. Rakeshbhai Desai about formation of Annapuneshwari SPNF product company limited (FPO) in navsari district and First Annual General meeting and office inauguration ceremony of Anna Puraneswari SPNF product company limited was organized FPO Capacity building program on 15/12/2022 at Gandeva with 226 participants



First Annual General meeting of Annapuneshwari SPNF



9.3 State level seminar on current development in wood science and technology for green economy

Gujarat Timber merchant federation Gandhinagar and Krishi vigyan Kendra Navsari and College of forestry, NAU, Navsari jointly organised State level seminar on current development in wood science and technology for green economy during 24-25 Dec,2022 at Central examination Hall, NAU Navsari. The inaugural programme was presided by Shri S. K. Chaturvedi, IFS, PCCF and Head of Forest Department, Gujarat, chief guest Dr. Z. P. Patel, Hon'ble Vice Chancellor, NAU, Navsari along with notable dignitaries shri. Nareshbhai Patel, MLA, Gandevi, Shri. R. C. Patel, MLA, Jalalpure, Shri. Rakesh Desai, MLA, Navsari, Dr. N. M. chauhan, DEE, Navsari, Dr P. K. Shrivastava, Principal and Dean, College of Forestry, NAU, Navsari, Shri. Maniswara Raja, IFS, CCF Valsad Circles. In his chief guest remarks, Dr. Z. P. Patel, Hon'ble Vice Chancellor, NAU, Navsari extolled the transformation of conventional wood technology into consumer driven advanced wood science enterprise. More than 304 scientists actively participated in this seminar.



State level seminar on current development in wood science and technology for green economy



State level seminar on current development in wood science and technology for green economy



9.4 PM Kisan Samman Samelan 2022

The event organized on 17 to 18 October 2022 at Navsari Agricultural University, Navsari witnessed about 404 farmers were participated from Navsari District, at SSK hall, Navsari. this event organised simltenously with Kisan Samman Sammelan at PUSA Campus, New Delhi.

The event brings together more than 2500 farmers from 7 different KVK's of Navsari Agriculture University. On the same day ,15 farmers from Navsari District viz., Navsari, Tapi and Bharuch along with 3 scientists attended the PM's Agri Startups and Kisan Samman Sammelan at PUSA Campus, New Delhi.



PM Kisan samman sammelan program at ,SSK Hall, NAU



Kisan Samman Sammelan at PUSA Campus, New Delhi.

9.5 International Millets Year-2023 under the theme of Natural Farming Awareness Program

KVK, NAU, Navsari, KRIBHCO, Surat and Bureau of Indian Standard, Surat jointly organized International Millets year-2023 celebration under the theme of Natural Farming awareness at central examination Hall on 10-03-2023. In presence of Hon'ble Dr. Z. P. Patel, Vice Chancellor of Navsari Agricultural University Navsari, Dr. N. M. Chauhan, DEE, Navsari, Dr. R. D. Vashi, BOB, NAU, Navsari, Shri Gamanbhai Patel, Chairman, Vasudara dairy, Alipore, Mrs. Jagrutiben Desai, Deputy president Vijalpor nagar palika, Shri. Satendrakumar Pandey, Joint director, BIS, Surat. There were 314 Farmer and Farm women actively participated and also visited agricultural Exhibition.



International Millets Year-2023 under the theme of Natural Farming Awareness Program

9.4 workshop on Flower crops

AICRP on Floriculture, ASPEE College of Horticulture and Directorate of Extension Education and KVKs jointly organized a one day workshop on Flower crops on February 27, 2023 at Floricultural Research Farm, NAU, Navsari for the benefit of Flower grower farmers of south Gujarat.

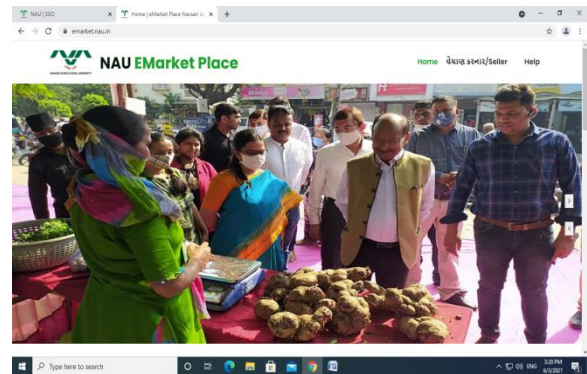
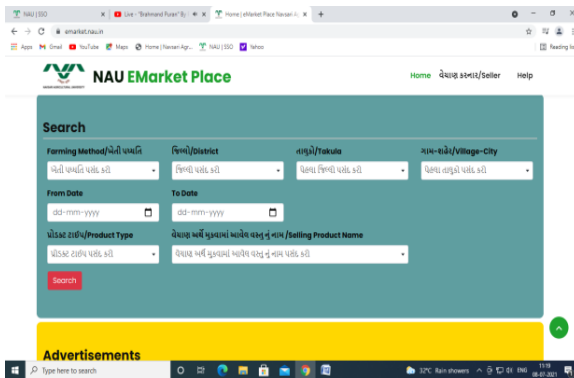


Inaugural ceremony of workshop on Flower crops in presence of Hon'ble V. C sir Dr. Z. P. Patel

9.10 NAU e-Market portal

Navsari Agricultural University has developed online marketing (NAU e-market) Portal in the year 2021. Farmer is getting maximum profit of his farm produce by using better marketing possibilities. NAU has developed an (eMarket) portal for farmers and consumers keeping in mind the need to ensure remunerative prices for farmers and food and nutrition security of the people. On the portal, farmers themselves can upload their information of farm

produce and can also provide information about their probable harvest date along with quantity and price of produce using their mobile. Likewise, consumers can get direct information about product availability from the nearest farmer along with price comparison.



NAU eMarket portal screen shots

9.11 Online webinar on awareness “Contingency Plan”

Hon’ble Vice Chancellor, NAU, Navsari Dr. Z.P. Patel preside Online webinar on “Contingency Plan” other dignitaries Dr. N. M. Chauhan, DEE, NAU, Navsari and subject specialist Dr. Prathik Patel, Associate Research Scientist, MRRS, NAU, Navsari, Dr. Kinjal. A. Shah, Scientist (Agronomy), Dr. Prabhu Nayaka, Scientist (Plant Protection) NAU, Navsari was present. This programme was on top priorities because, more than 1000 mm rainfall in 20 days till date 27/7/22 this was devastating effect on crop stand. Majorly damage/loss occurs in paddy Nursery and transplanted paddy field in Navsari. You-tube live programme was organized on 27-7-22 under the President ship of Hon’ble Vice Chancellor Dr. Z. P. Patel to aware the farmers about Contingency Crop Planning to overcome the losses occurred due to rain and also plan for the new/alternate crop. Subsequently neighboring taluka’s farmers also get aware and demanded the same programme and KVK organized Shibir in Vansda Taluka in which more than 150 farmers were remain present and benefitted. As a result of these two programmes more than 50 farmers grow new crops viz., Indian bean (GNIB21/22), Blackgram (GB-1), Pigeon pea and again they went on direct seeded paddy



Online webinar on awareness “Contingency Plan”

10 NATIONAL FLAGSHIP PROGRAMMES / CELEBRATIONS

10.1 Celebration of 94th ICAR Foundation Day

Krishi Vigyan Kendras Under NAU, celebrated “94th ICAR Foundation Day” on July 16, 2022. The team of KVK guided to farmers on different subject viz., vegetable farming, organic farming, plant protection and animal husbandry. During this program about 133 Farmers & 170 farm women were participated.



participants watching the Live celebration of 94th ICAR foundation Day programme



Scientist delivering lecture to the participants during the programme

10.2 Celebration of Parthenium Awareness week

17th Parthenium Awareness Week (16 to 22 August 2022) celebrated by all KVKs NAU, Navsari. Various activities were organized by KVKs. Total 634 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. How it can be identified, He highlighted on how to control, and also its hazardous effects on human beings.



Celebration of Parthenium Awareness Week at KVK, Navsari



Scientists delivering lecture during the programme, KVK, Surat

10.3 Celebration of Poshan Maha Abhiyan and Tree Plantation

In order to ensure community mobilisation and bolster people’s participation, every year, the month of September is celebrated as POSHAN Maah Abhiyan across the country. This month highlights the importance and role of the right nutrition for the human body. A balanced diet with a combination of essential nutrients and calories is pivotal for the smooth working and growth of the human body.

All the KVKs running under NAU also celebrated the month at KVK campus and at the villages in their jurisdiction on 17/09/2022. Various activities were organized by KVKs during the programme viz., Poshan jagruti shibir, training on nutrition garden management, nutri thali competition in Mahila sibir, Quiz on millets and Tree plantation, method

demonstration, distribution of nutri-kitchen garden kit, seeds and seedlings in Farmers sibir etc. Total 608 farm women participated in the programmes at different places.



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



Celebration of “Poshan Maha Abhiyan and Tree Plantation campaign” at KVK, Vyara

10.4 Celebration of PM Kisan Samman Sammellan programme-

The PM Kisan Samman Sammellan 2022 will be launched by Prime Minister Narendra Modi at the Indian Agricultural Research Institute in New Delhi. KVKs Under NAU celebrated The PM Kisan Samman Sammellan at their kvks on 17/10/2022. On this occasion Technical lectures delivered, The live broadcast of the Hon'ble Prime Minister's talk and khedut sibir were organised Total 1899 farmers and famwomen were participated



Celebration of PM Kisan Samman Sammellan programme at Tapi and Waghai.



10.5 Van mahotsav

Van Mahotsav is also known as the festival of trees and the festival of life. Thousands of saplings are planted across India by the people during this week of the year. Trees are the most precious gift given to mankind and it is our duty to save it.

Theme: Celebration of life, know your responsibility towards trees, environment and mother earth and Let us Plant a Tree, let us Plant a hope. KVK Dang and Surat celebrate vanmahotsav in the year 2022 on 07/07/2022



10.6 Azadi ka amrit mahotsav farmers fair

Azadi Ka Amrit Mahotsav is an initiative of the Government of India to celebrate and commemorate 75 years of independence and the glorious history of its people, culture and achievements. The official journey of Azadi ka Amrit Mahotsav commenced on 12th March 2021 which started a 75-week countdown to our 75th anniversary of independence and will end post a year on 15th August 2023.

KVKs under NAU celebrated Azadi Ka Amrit Mahotsav with organisation of farmers fair on 26/04/2022 under the theme “Kisan Bhagidari Prathmikta Hamari”. Natural Farming Workshop and Kisan Mela, Technical lectures delivered, Distribution of Drudgery reduction tools and Exhibition of Stalls, Seminar were organised. Total participants were 2390 among them 1321 farmers and 1069 farm women were enthusiastically participated in the programme.



Celibration of Azadi ka amrit mahotsav farmers fair at Dang district

10.7 Celebration of World Bee Day

Govt. of India celebrating Word Bee Day to raise awareness of the importance of pollinators, the threats they face and their contribution to sustainable development, on 20th May 2022. The theme for the year 2022 is “Bee engaged in pollinator-friendly agricultural production” different activities were organised at different places. During the programme 258 farmers and farm women participated



Beekiping demonstrated by KVK Surat



celebration of world honeybeeday at KVK Surat

10.8 Garib Kalyan Sammelan and Pradhan Mantri Kisan Sanman Nidhi program

PM Kisan is a Central Sector scheme with 100% funding from Government of India. The fund will be directly transferred to the bank accounts of the beneficiaries. Under the scheme an income support of 6,000/- per year in three equal installments will be provided to all land holding farmer families. To create awarness among farming community KVKs under NAU organise Garib Kalyan Sammelan and Pradhan Mantri Kisan Sanman Nidhi program on 31/5/2022.Total 1460 farmers and famwomen have participated in the programme



Garib Kalyan Sammelan and Pradhan Mantri Kisan Sanman Nidhi programat Navsari & surat

10.9 "World Soil Day" Celebration

Government of India celebrates the "World Soil Day" on 5th December every year, KVKs operated under the NAU celebrated the "World Soil Day" on December 5, 2021. Lectures of dignitaries and Scientists and farm visits were organized during the celebration. During the programme 354 farmers and farm women participated at different places.



Hon. Collector, Tapi addressing to the participants at KVK Tapi



Scientist from KVK Dang delivering lecture to the participants

10.10 Celebration of International yoga day

The theme for International Yoga Day in 2022 is 'Yoga for Humanity', which is intended at bringing to light the physical, mental, and emotional state of people. The theme was selected with the aim to inspire the yoga community for global development. yoga can boost up your energy level, help you maintain a healthy weight and improve your body posture. Participating in Yoga activities and meditation can help in enhancing your mental health. The KVKs running under NAU organized various activities like pranayam, meditation, aasans, yogasan, Awareness programme on 21/06/2022 as International Yoga Day. Total 226 farmers and farm women participated in the programmes at different places.



KVK, Dediapada with tribal women joined in celebration of International Yoga day



Scientist from KVK Waghai celebrating International Yoga day

10.11: Awareness of Jal Shakti Abhayan :

“Jal Shakti Abhiyan: Catch the Rain” focusing on saving and conserving rainwater with the theme “Source sustainability for drinking water” from 04 March 2023 to 30 November 2023 in the pre-monsoon and monsoon periods of 2023, covering both urban and rural areas of all the districts in the country. KVKs under NAU organised awareness Shibir on jalsakti Abhayan at their KVKs. Total 1144 farmers and farm women participated in the programmes at different places.



awareness shibir at KVK tapi and Waghai

10.12 Celebration of National Kisan Day

The KVKs running under NAU celebrated Kisan Day on 23 December, 2022. Various activities were organized by KVKs during the programme viz., Lecture on Kisan day, Farm Visit and Group Discussion, Kisan gosthi and information on cultivation of practices of crops etc. Total 1672 farmers and farm women participated in the programmes at different places.



Scientist addressing the participants regarding importance of farmers for Indian economy and overall growth

10.13 Celebration of World Pulses Day

KVKs under NAU Celebrated World Pulses Day under Azadi Ka Amrit Mahotsav on 10th February 2023 with the theme of "Atmanirbhar Bharat- Harnessing potential pulses for import substitution". different activities viz. kisan gosthi, khedut sibir etc were organised in programe. Total 353 farmers and farm women participated in the programmes.



DEE,NAU addressing the participants of kvk Navsari



Scientist delivering lecture to the participants at KVK Vyara,

10.14 Celebration of International Women's Day' 2023

International Women's Day (IWD) being celebrated all over the world on 8th March. KVKs working under NAU, Navsari also celebrated the IWD 2022 on 8th March 2023 in the presence of dignitaries. The theme of the programme was empowering the women farmers. Speech of dignitaries, Lecture of experts and different activities viz., Importance of Women in Agriculture, Cultural Events organized to encourage farm women, Technical lecture, Millet kit distribution and exhibition stall, millet recipies, Mahila Shibir, World Women's Day, Khedut Mahila Shibir etc. were organized. More than 1185 farm women were actively participated in the programme at different places.



Home scientist KVK, NAU,Tapi addressing the women participants during the programme



Celebration of International women's day at KVK, Dediapada

10.15 Celebration of World Water Day

KVKs working under NAU, Navsari celebrated the “World Water Day” on March 22, 2023 in the auspicious presence of dignitaries. the World Water Day theme is “Accelerating Change” to accelerate the change required to solve the water and sanitation crises. The theme signifies the importance of appropriately using water in humans' daily needs.

Scientists delivered lectures on importance of water for better productivity of crops, irrigation technology, watershed management for sustainable livelihood and agriculture *etc.* Total 88 participants including farmers, farm women and extension officers remained present at different places.



Scientist delivering lecture to the participants during the programme at KVK Narmada and Navsari



10.16 Farmer FIRST Programme

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 of Navsari district with six modules under the Directorate of Extension Education

since 2016-2017. Different activities were organized during the period viz., Trainings and distribution of critical inputs to the participating farmers under the project.

10.16.1 “Interface between Farmers and Scientist”

Dr. Z. P. Patel, Hon. Vice Chancellor of Navsari Agricultural University emphasized on farmers about the challenges of farming in changing weather conditions and how to deal with disease and pest. All scientists gave solution of the queries asked by farmers. Dr. N. M. Chauhan, Director of Extension Education discuss about brief information about inputs of all six modules of FFP programme and also told how to take maximum benefits from farming by appropriate management and adequate cultural practices. Dr. N. B. Patel, Co-PI of Livestock based module gave detailed information about Lumpy Virus disease. Member of Horticulture based module, Dr. P. D. Solanki gave information on scientific cultivation of Mango and Sapota and Dr. C. S. Desai informed about benefits of using Novel in crops. Dr. G. B. Kalaria also provide additional information about pest and disease of Mango and Sapota. Total 81 farmers including 29 women farmers from four villages namely; Pathari, Hansapor, Rahej and Khapariya had participated in the programme held on 22/08/2022



Interface between Farmers and Scientist

10.16.2 Training on “Value addition of Sapota”

Organized training on “Value addition of Mango (Aam Panna, Mango Chutney)” under dated 24/05/2022 at Centre of Excellence on Post harvest technology, N.A.U., Navsari in the Presence of PI and Co-PI of Farmer FIRST Programme. Dr. Jilen Mayani practically demonstrated detailed process of making Aam Panna, Mango Chutney. Total 21 farm women participated.



Training on “Value addition of Mango

11. MEGA EVENTS: ----

12. AWARDS RECEIVED:

12.1 Farmer Award

12.1.1 Best farmer Award:

It is a matter of great pride for our University that Krishi Vigyan Kendra, Navsari's progressive farmer Shri. Natwarlal Somabhai Patel was felicitated by the 'Best Farmer Award' in the International conference on "System of crop intensification for climate-smart livelihood and nutritional security" organized by ICAR-Indian Institute of Rice Research, Hyderabad during December 12-14, 2022. The award ceremony was graced by the presence of Dr. Himanshu Pathak, Hon'ble Secretary (DARE) & Director General (ICAR) New Delhi as president; Dr. S. K. Pradhan, ADG (FFC) ICAR; Dr. R. M. Sundaram, Director ICAR-IIRR and chairman ICSCI-2022 and other dignitaries. Shri. Natwarlal Patel was awarded for the successful representation and adoption of the new method- The system of Rice Intensification (SRI).



12.1.2 ASPEE LM Patel Farmer of the Year Award:

A Women Farmer, Mrs. Jamnaben Maganbhai Nakum village: Toked Ta. Mandvi, Dist Surat was awarded with ASPEE LM Patel Farmer of the Year Award- 2018-19 on March, 2023 under the category- Dairy Farming.



12.1.3 IARI Innovative Farmer Award:

Shri Kailash Choudhary, Hon'ble Minister of Agriculture, on 2-4, March 2023 at Pusha Agricultural Science Mela, New Delhi awarded Dr. Manoj M Sharma Village: Olpad, District: Surat with the "IARI Innovative Farmer Award" For outstanding contribution in agriculture and allied fields (fisheries).



12.2 Faculty Award

12.2.1 Lifetime Achievement Award

Dr. Nikulsinh M. Chauhan, Director of Extension Education was felicitated by the Hon'ble Vice Chancellor Dr. Z. P. Patel in the presence of Dr. H. V. Pandya, Registrar for his splendid achievement of getting conferred with the most coveted "**Lifetime Achievement Award**" for outstanding contribution in the field of Agricultural Extension. He was awarded this distinct recognition on the occasion of *7th International Conference* on “Opportunities and Challenges in Agriculture, Environmental and Biosciences for Global Development-OCAEBGD-2022” at Goa;



12.2.2 Distinguished Scientist Award

Dr. N. M. Chauhan, Director of Extension Education was felicitated with the most coveted “Distinguished Scientist Award” for his outstanding contribution in the field of Agriculture Extension on the occasion of VIIth International conference on Global Reserch Initiative for Sustainable Agriculture and Allied during 21-23, November, 2022



12.2.3 Best Extension Scientist Award:

12.2.3.1

Kinjal Shah, Scientist (Agronomy) KVK, Navsari conferred Best Extension Scientist Award -2022 by society of Krishi vigyan Kendra



12.2.3.2

Dr. J. B. Dobariya, Senior scientist & Head at KVK, NAU, Waghai, Dist: Dangs received award on "Best extension scientist award" given/sponsored by 3rd national conference on Natural farming, Organic farming and chemical farming in Indian agriculture-present scenario and way forward on 17, October 2022. By society of Krishi Vigyan.



12.2.3.3

Prof. V. K. Poshia, assistant Professor (TWTC), KVK, NAU, Dediapada, Dist: Narmada received " Best Extension Scientist Award – 2022" award given/sponsored by Society of Krishi Vigyan for Research work on 17-19/10/2022 at KVK Ujjain.



12.2.4 Pre-eminent scientist international award 2022

Dr. J. B. Dobariya, Senior scientist & Head at KVK, NAU, Waghai, Dist: Dangs received award on "Pre-eminent scientist international award 2022" given/sponsored by Chennai Teacher's council on 21 November 2022.



12.2.5 Young Scientist Award:

12.2.5.1

Dr. R A Gurjar Scientist (Horticulture) KVK, Navsari conferred ESDA Young Scientist Award in World Environment Summit-2022 Environment and Social Development Association, Delhi (15-16 October 2022)



12.2.5.2

Dr. M. V. Tiwari, Scientist (Home Science), KVK, NAU, Dediapada, Dist: Narmada received "Young Scientist Award - 2022" award given/sponsored by Society of Krishi Vigyan for Agriculture and Research on 17-19/10/2022 at KVK Ujjain.



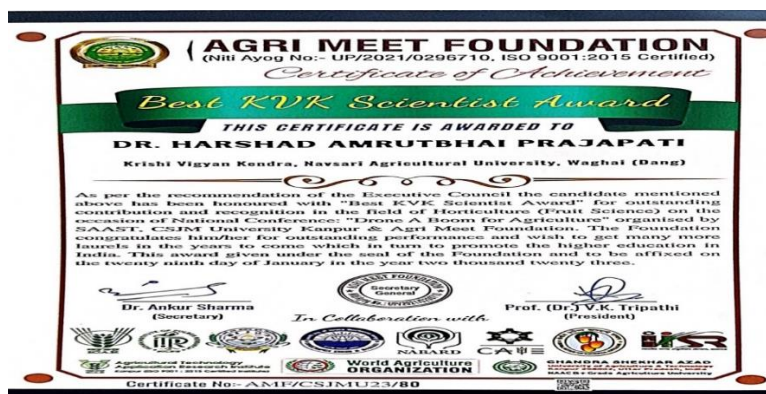
12.2.6 Paramount achiever Award

Mr. H. A. Prajapati, Scientist (Horticulture) at KVK, NAU, Waghai, Dist: Dangs received award on "Paramount achiever Award " given/sponsored by International conference on advancement of science and technology for Environments, Society and people (ICASTESP- 2023) on 06-07January 2023.



12.2.7 Best KVK Scientist award

Mr. H.A. Prajapati, Scientist (Horticulture) at KVK, NAU, Waghai, Dist: Dangs received award on "Best KVK Scientist award" given/sponsored by SAAST, CSJM university, Kanpur & Agri Meet Foundation on March 2023.



12.2.8 Best Presentation Award:

12.2.8.1

Dr. Dharmishtha M. Patel, Scientist (Horticulture) received Best Oral presentation Award for presentation of research paper entitled "value creation from horticultural waste" in Horticulture Summit organized at NAU, Navsari on 29th April 2022.



12.2.8.2

KVK – Narmada received "Best presentation award" award given/sponsored by ICAR-ATARI Pune for best presentation in 5th Annual Zonal Workshop of KVKs on 7-9 July, 2022 at AAU, Anand.



13. PUBLICATIONS:

Sr. No.	Details of Publications	NAAS rating
12.1 Research Articles/Notes		
1.	Parikh, Neha. and Chauhan, N.M. (2022). Correlation between profile and knowledge level of farmers about Global warming effect on Agricultural Sectors". <i>Gujarat Journal of Extension Education</i> . Vol 32:	4.96
2.	Gurjar, R.A. Nayak, Prbhu Lad, A N and Chauhan, N. M. (2022). Use of NAUROJI Novel Organic Liquid Fertilizer on Yield of Mango and Sapota. <i>J Krishi Vigyan-2022</i> , 11 (1) Pg no: 362-366.	4.55
3.	Chuahdari,,Rutika. U.; Chauhan, N. M. and Chuadhari, K. L. (2022) Analysis of Livelihood Security of Tribal Farmers. <i>Gujarat Journal of Extension Education</i>	4.96
4.	Soni, Arti N.; Dhodia, A. J. and Pandya, C. D. (2022). Impact of in-service training on knowledge of anganwadi workers regarding anemia and nutritional kitchen gardening, <i>Gujarat Journal of Extension Education</i> . Vol. 31, Issue-1, pp.30-34.	4.96
5.	Shah, K. A.; Gurjar, R. A. and Patel, N. N. (2022) Technological and extension yield gaps in summer greengram in Navsari district of Gujarat. <i>Gujarat Journal Extension Education</i> , Special issues, pp 159-163.	4.96
6.	Shah, K. A.; Nayaka Prabhu and Salunkhe, Sumit (2022). Effectiveness of cluster frontline demonstration towards transfer of Scientific cultivation practices of major pulses in Navsari district of Gujarat. <i>Gujarat Journal Extension Education</i> , Special issues, pp 53-57	4.96
7.	Gurjar,. R. A.; Nayaka,Prabhu.; Lad,A. N.; Shah, K. A. and Chauhan, N. M. (2022). Use of NAUROJI Novel Organic liquid Fertilizer on yield of Mango And Sapota. <i>Journal Krishi Vigyan</i> , Issue.11, Vol.1, pp.362-366	4.41
8.	Javiya, P. P. (2022). Influence of various cow-based bio-enhancers and botanicals on yield, nutrient uptake of organic wheat (<i>Triticum aestivum</i> L.) and soil properties. <i>The Pharma Innovation Journal</i> . Issue.11, Vol.11, pp.2312-2315.	5.23

9. Dr. Meenaxi Tiwari; V. K. Poshia; N. V. Chaudhry and P. D. Verma (2022). Assess the incidences of water, sanitation and hygiene among tribal womens in Narmada district. *The Pharma Innovation journal*. pp-183-185. **5.23**
10. M. V. Tiwari; V. K. Poshia; V. R. Jinjala and P. D. Verma (2022). Performance of twin wheel hoe in Narmada district. *Indian journal of Extension Education*. 58(03). **5.93**
11. V. K Poshia; Maheshwaran, M and R. D. Pandya (2022). Adoption level of mitigating strategies by progressive farmers of climate change in south Gujarat. *The Pharma Innovation Journal*. 11 (7), 3376-3378. **5.23**
12. V. K Poshia; Maheshwaran, M and R. D. Pandya (2022). Knowledge test to measure the knowledge level of progressive farmers about mitigating strategies for the adverse effects of climate change. *International Journal of Recent Scientific Research*. 13(07), (x), pp. xx-xx. **3.65**
13. V. K. Poshia; M. V. Tiwari and P. D. Verma (2022). Relationship of adoption gap in recommended pigeon pea practices with socioeconomic characteristics of tribal farmers in Narmada district. *International Journal of Agriculture Extension and Social Development*. 5(2), pp-292-293. **5.04**
14. V. K. Poshia; M. V. Tiwari and P. D. Verma (2022). Level of adoption of the tribal farmers about improved banana production technology. *Guj. J. Ext. Edu. Special issue*. 27(1) pp-77-78. **4.96**
15. V. K. Poshia; M. V. Tiwari and P. D. Verma (2022). Constraints faced by recommended pigeon pea cultivation practices in Narmada district. *International Journal of recent Scientific research*, 13(3), pp-292-293. **3.65**
16. Bhimani, Gita J. and Bariya, Minaxi K. (2022). Knowledge of SHG women members regarding nutrition in Surat district of Gujarat state. *Indian Res. J. Ext. Edu.*, 22(5): 129-131. **5.22**
17. Sandipan, P. B.; Patel, P. S.; Patel R. K.; Chaudhari, R. I. and Patel, M. C. (2022). Evaluation of different fungicides against boll rot and foliar diseases of cotton under south Gujarat of India. *J. Pl. Dev. Sci.*,14(5): 491-496. **4.13**
18. Sandipan, P. B.; Patel, P. S.; Patel R. K.; Chaudhari, R. I.; Patil, P. V. and Patel, M. C. (2022). Effect of environmental factors in relationship to bacterial leaf blight (BLB) disease development under south Gujarat. *India. J. Pl. Dev. Sci.*,14(6): 561-567. **4.13**
19. Sandipan, P. B.; Patel, P. S. and Patel, R. K. (2023). Assessment of bioagents against cotton diseases under south Gujarat of India. *Int. J. Agric. Sci.*, 19(1): 75-80 (ISSN: 0973–130X) **4.73**
20. G. B. Kalariya, R. C. Patel, L. V. Ghetiya and S. C. Mali (2022) Reaction of different sugarcane cultivars to whitefly, *Aleurolobus barodensis* (Mask) under salt affected field conditions in Gujarat state, 7th IAPSIT International Sugar Conference and Sugarcon 2022,pp-193. October 16-19,2022 organized by ICAR- Indian Institute of Sugarcane Research Lacknow,Uttar Pradesh, India ---
21. R. C. Patel, G.B. Kalariya, S. C. Mali and K. V. Makvana (2022), Evaluation of different zonal testing varieties Sugarcane against red rot pathogen, 7th IAPSIT International Sugar Conference and Sugarcon 2022, pp-206. October 16-19,2022 organized by ICAR- Indian Institute of Sugarcane Research Lacknow, Uttar Pradesh, India ---
22. G.B. Kalariya and L.V. Ghetiya (2022), New record of tea mosquito bug; *Helopeltis antonii* Signoret (Family: Miridae; Order: Hemiptera) as the pest of neem; *Azadirachta indica* in Gujarat. 2nd Indian Horticulture Summit-2022 on Horticulture for Prosperity and Health Security, pp-185. April 27th -29th, 2022, organized by Society for Horticultural Research and Development at NAU, Navsari ---

12.2 Book(s)/ Proceedings/ Book of Abstract/Souvenir

- 1 Parmar, H. C.; Bhimani, G. J.; Patel, R. K. and Rathod, J. H. (2022). Dairy Farming Margdarshika. Book published by Krishi Vigyan Kendra, Navsari Agricultural University, Surat, ISBN No. 978-93-5777-685-1, University Publication No.NAU/04/05/054/2022,110 p.
- 2 Panchal, Bhakti B. and Bhimani, Geetaben J. (2022). Vertical farming: A boon for cucurbits growers. Oral presentation in 2nd Indian Horticulture Summit-2022 organized by Agricultural University, Navsari during April, 27-29, 2022, 852 p.
- 3 Patel R. K. (2022). Mite pests of vegetable crops and their management. Chapter published in training manual of “ICAR sponsored short course cum training on pest risk assessment and eco-friendly management of mite pests in agriculture” organized by Navsari Agricultural University, Navsari during January 20-29, 2022,141-152 p.
- 4 Sandipan, P. B., Patel, P. S., Patel R. K. and Patel, M. C. (2022). Evaluation of different bioagents against cotton diseases under south Gujarat of India. Full paper published in National Symposium on "Paradigm Shift in Cotton Cultivation" on August 08-10, 2022 at MPUAT, Udaipur-313001, Jointly organized by Cotton Research and Development Association (CRDA), CCS, HAU, Hissar and MPAUT, Udaipur, 199-205 p.
- 5 Sandipan, P. B., Patel, P. S., Patel R. K. and Patel, M. C. (2022). Efficacy of bioagents against cotton diseases under south Gujarat of India. Abstract in the National Symposium on “Emerging innovations in plant molecules for achieving food and nutritional security” (EIPMAFNS-2022) organized on September 22-23, 2022 by Department of Plant Molecular Biology and Biotechnology, ACHF, NAU, Navsari and Division of Biochemistry, ICAR-IARI, New Delhi in association with Society for Plant Biochemistry and Biotechnology, IARI, Pusa Campus, New Delhi.
- 6 Gita J. Bhimani; Dr. M. K. Bariya and Minaxi R. Prajapati (2022). Knowledge regarding food and nutrition among farm women in Surat district of Gujarat state. Poster presentation in SEEG National Seminar-2022 on ‘Synergetic Extension Approaches for Livelihood Improvement and Agricultural Development’ organized by Junagadh Agricultural University, Junagadh during June, 24-25, 2022, 213 p.
- 7 Gita J. Bhimani; M. K. Bariya and H. C. Parmar (2022). Relationship between selected characteristics of farm women and their level of knowledge regarding nutrition. Poster presentation in SEEG National Seminar-2022 on ‘Synergetic extension approaches for livelihood improvement and agricultural development’ organized by Junagadh Agricultural University, Junagadh during June, 24-25, 2022, 399 p.
- 8 Gita J. Bhimani; M. K. Bariya and J. H. Rathod (2022). Constraints and suggestion of farm women regarding the knowledge about health and nutrition. Poster presentation in SEEG National Seminar-2022 on ‘Synergetic extension approaches for livelihood improvement and agricultural development’ organized by Junagadh Agricultural University, Junagadh during June, 24-25, 2022, 399 p.

12.3 Leaflets/Brochure/Extension literature

- 1 Parmar, H. C., Bhimani, G. J. and Rathod, J. H. (2022) Pashu Aahar. Published by Krishi Vigyan Kendra, Navsari Agricultural University, Surat, University Publication No. NAU/04/05/051/2022.
- 2 Parmar, H. C., Bhimani, G. J., Patel, R. K. and Rathod, J. H. (2022) Silage-Lilo Ghas Charo. Published by Krishi Vigyan Kendra, Navsari Agricultural University, Surat, University Publication No. NAU/04/05/052/2022.

- 3 Bhimani, G. J., Parmar, H. C. and Rathod, J. H. (2022) Matanu Dudh-Kudarat ni anmol bhet. Published by Krishi Vigyan Kendra, Navsari Agricultural University, Surat, University Publication No. NAU/04/05/053/2022.
- 4 Rathod, J. H., Trivedi, S. J., Patel, R. K., Panchal, B. B., Bhimani, G. J. and Patel, A. N. (2022) Krishi Vigyan Kendra-Ek Parichay. Published by Krishi Vigyan Kendra, Navsari Agricultural University, Surat, University Publication No. NAU/04/05/050/2022.
5. Dr. K.A. Shah, Smt. N. N. Patel, Shri Pradip G. Rathawa and Dr. N. M. Chauhan (2022). Chana ni vignanik kheti padhdhati. NAU, Pub.No. 64/2023
6. Dr. K. A. Shah, Dr. R. A. Gurjar, Dr. Sumit Salunkhe and Dr. N. M. Chauhan (2022). Shiyalu pak ni vignanik kheti padhdhati. NAU, Pub.No. 65/2023
- 7 Dr. Prabhu Nayaka, Dr. K. A. Shah, Dr. A. N. Lad, and Dr. N. M. Chauhan (2022). Prakrutik kheti. NAU, Pub.No. 66/2023
8. Dr. Prabhu Nayaka, Dr. Sumit Salunkhe, Dr. A. N. Lad, and Dr. N. M. Chauhan (2022). Vansapatijanay jaivik davaoni banavat. NAU, Pub.No. 67/2023
9. Dr.K.A. Shah, Dr. R. A. Gurjar, Smt. N. N. Patel, and Dr. N. M. Chauhan (2022). vermicompost and vermivash. NAU, Pub.No. 68/2023
10. Dr.K.A. Shah, Dr. Prabhu Nayaka, Shri Pradip G. Rathawa and Dr. N. M. Chauhan. (2022) Nagli ni vignanik kheti padhdhati. NAU, Pub.No. 72/2023
11. Smt. N. N. Patel, Dr. R. A. Gurjar, Dr. Sumit Salunkhe and Dr. N. M. Chauhan (2022). Halka dhanya pakonu poshan mulay ane tenu mulayvardhan NAU, Pub.No.73/2023
12. Dr. Pratik P.13.. Javiya, Dr. J. B. Dobriya, Shri Harshad A. Prajapati, Dr. Sagar A. Patel, Shri Bipin M.Vahunia and Shri Kashyap A. Patel (2022-23). Prakrutik khetima humash (Jivdravy) nu mahatv ane poshak drvayoni labhyata. NAU, Pub. No. NAU/04/07/077/2023.
13. Shri Harshad A. Prajapati, Dr. Pratik P. Javia, Dr. Sagar A. Patel, Shri Bipin M.Vahunia and Shri Rakesh S. Patel (2022-23). Bijamrut ane Jivamrut - Prakrutik khetina agatyana aayam. NAU, Pub. No. NAU/04/07/078/2023.
14. Shri Bipin M.Vahunia, Shri Harshad A. Prajapati, Dr. Pratik P. Javiya, Dr. J. B. Dobriya and Dr. Sagar A. Patel (2022-23). Prakrutik krushima Agniashtra ane bramhashtra no upayog. NAU, Pub. No. NAU/04/07/079/2023.
15. Shri Bipin M.Vahunia, Dr. Sagar A. Patel, Shri Rakesh S. Patel, Shri Harshad A. Prajapati and Dr. J. B. Dobriya (2022-23). Prakrutik Krushima Dashparniark ane shunthashtra nu mahatv. NAU, Pub. No. NAU/04/07/080/2023.
16. Dr. Sagar A. Patel, Shri Bipin M.Vahunia, Dr. J. B. Dobriya, Shri Rakesh S. Patel and Dr. Pratik P. Javiya (2022-23). Gujaratni desi gayani oladonu prakrutik khetima mahatv. NAU, Pub. No. NAU/04/07/081/2023.
17. .Dr. J. B. Dobriya, Shri Rakesh S. Patel, Shri Bipin M.Vahunia, Dr. Pratik P. Javiya and Shri Harshad A. Prajapati (2022-23). Mishrapak padhdhtini vividhrito, tena faydao ane tema thayela mahatvana sanshodhano. NAU, Pub. No. NAU/04/07/082/2023.
18. Rakesh S. Patel, Shri Kashyap V. Patel, Shri Bipin M. Vahunia, Shri Shreyansh N. Chaudhary, Dr. J. B. Dobriya and Shri Harshad A. Prajapati (2022-23). Prakrutik krushini samajan ane sidhdhanto. NAU, Pub. No. NAU/04/07/083/2023.
19. Dr. Pratik P. Javiya, Dr. J. B. Dobriya, Shri Harshad A. Prajapati, Dr. Sagar A. Patel, Shri Bipin M.Vahunia and Shri Kashyap A. Patel (2022-23). Prakrutik khetima humash

(Jivdravy) nu mahatv ane poshak drvayoni labhyata. NAU, Pub. No. NAU/04/07/077/2023.

20. Shri Harshad A. Prajapati, Dr. Pratik P. Javia, Dr. Sagar A. Patel, Shri Bipin M. Vahunia and Shri Rakesh S. Patel (2022-23). Bijamrut ane Jivamrut - Prakrutik khetina agatyana aayam. NAU, Pub. No. NAU/04/07/078/2023.
21. Shri Bipin M. Vahunia, Shri Harshad A. Prajapati, Dr. Pratik P. Javiya, Dr. J. B. Dobriya and Dr. Sagar A. Patel (2022-23). Prakrutik krushima Agniashtra ane bramhashtra no upayog. NAU, Pub. No. NAU/04/07/079/2023.
22. Shri Bipin M. Vahunia, Dr. Sagar A. Patel, Shri Rakesh S. Patel, Shri Harshad A. Prajapati and Dr. J. B. Dobriya (2022-23). Prakrutik Krushima Dashparniark ane shunthashtra nu mahatv. NAU, Pub. No. NAU/04/07/080/2023.
23. Dr. Sagar A. Patel, Shri Bipin M. Vahunia, Dr. J. B. Dobriya, Shri Rakesh S. Patel and Dr. Pratik P. Javiya (2022-23). Gujaratni desi gayani oladonu prakrutik khetima mahatv. NAU, Pub. No. 24.NAU/04/07/081/2023.
25. Dr. J. B. Dobriya, Shri Rakesh S. Patel, Shri Bipin M. Vahunia, Dr. Pratik P. Javiya and Shri Harshad A. Prajapati (2022-23). Mishrapak padhdhtini vividhrito, tena faydao ane tema thayela mahatvana sanshodhano. NAU, Pub. No. NAU/04/07/082/2023.

12.4 Book/Booklet

1. કલારિયા જી.બી. (૨૦૨૨), ખેડૂતોપયોગી સંશોધન ભલામણ-૨૦૨૨ પ્રકાશક: વિસ્તરણ શિક્ષણ નિયામકશ્રી, ન.કૃ.યુ., નવસારી, યુનિ. પ્રકાશન નં. NAU/01/04/034/2022. અને www.nau.in વેબસાઈટ પર પ્રકાશિત કરેલ છે.
2. કલારિયા જી.બી. (૨૦૨૨) શેરડીની જીવતોનું સંકલિત વ્યવસ્થાપન "ખેડૂતની આવક વધારવા માટે સંશોધન આધારિત શેરડીની ખેતી પધ્ધતિના ચાવીરૂપ મુદ્દાઓ " સંકલનકર્તા શ્રી કે. વી. પટેલ, સંયુક્ત ખેતી નિયામકશ્રી (વિ.) સુરત અને ડૉ. એ. આર. ગજેરા, જિલ્લા ખેતીવાડી અધિકારીશ્રી, નવસારી ખેતીવાડી ખાતુ, ગુજરાત રાજ્ય, ગાંધીનગર વર્ષ: ૨૦૨૨-૨૩ પાનાં નં. ૭૪-૮૫
3. કલારિયા જી.બી. ઘેટીયા એલ. વી., ઘોઘારી પી.ડી. અને એચ.સી. માલી (૨૦૨૧-૨૨) શેરડીની જીવતોનું સંકલિત વ્યવસ્થાપન, પ્રકાશન નંબર: ૭૦/૨૦૨૨-૨૩.

12.5 Popular article

- 1 Prof. A. N. Soni (2022). Aayurvedik Hair Oile Senkado Bahenone Banavi Aatmanirbhar.
- 2 Dr. J. B. Butani, Dr. A. J. Dhodia and Dr. C. D. Pandya (2022). Kudarati aushadhi na upayog thaki pashu rogni sarvar. Krishijivan. Pg. No.:21-23.
- 3 Dr. S. M. Chavan, Dr. C. D. Pandya and N. N. Makani (2022). Income generating from green gram seed productions. Kheti. Pg. No.:18-19.
- 4 Dr. J. B. Butani and C. D. Pandya (2022). Pashuo mate baremas lilachara tarike moringani kheti. Krishigovidya. Pg. No.:41-42.
- 5 Dr. J. B. Butani and Dr. C. D. Pandya (2022). Pashuo mate baremas lilachara tarike moringani kheti. Gaudhuli. Pg.No.:20-22, Vol.-02.
- 6 Dr. K. A. Shah, Dr. A. N. Lad, Dr. R. A. Gurjar, Dr. N. M. Chauhan: Advantage of Sprinkler irrigation Methods. Publised in Koli Patel Mitra October. 2022.

- 7 Dr. R. A. Gurjar, Dr. K. A. Shah, Dr. Prabhu Nayka, Dr. Paresh Patel and Dr. N. M. Chauhan. Scientific Cultivation Practices of Mango. Published in Koli Patel Mitra, December.2022.
- 8 Dr. K. A. Shah, Dr. A. N. LAd, Dr. R. A. Gurjar and Dr. N. M. Chauhan. Tapak Piyat Padhdhati na fayada. Published in Krishi Jivan December.2022.
- 9 Dr. R. A. Gurjar, Dr. K. A. Shah and Smt. Nitalben Patel. Amrafal: poshak tattvono uttam strot . Published in Krishi Goviddhya January. 2023.
- 10 Chauhan N. M., Advantages of Sprinkler Irrigation- Published an article in "Koli patel Mantra" Magazene in October- 2022.
- 11 Chauhan N. M., Scientific Cultivation practices of Mango"- Published an article in "Koli patel Mantra" Magazene in December- 2022.
- 12 Chauhan N. M.,Tapak piyat padhdhati na fayda- Published an article in Krishi Jivan in December- 2022
- 13 Chauhan N. M ., Advantages of Dip Irrigation- Published an article in "Koli patel Mantra" Magazene in January-2023 Page No. 14 to 16.
- 14 Chauhan N. M., Nutritional Garden : Kuposhan Dur Karvano Upayo Published an article in "Koli patel Mantra" Magazene in Febuary- 2023.
- 15 Chauhan N. M., Nagali/varini Sendriy Kheti Pradhati" Published an article in " Narmada Kishan Parivar Patr" Magazene in March-2023 Page No. 19 to 21.
- 16 H. A. Prajapati: Haldar ni vaigyanik kheti padhdhti. Published in Krushi jivan. 01 May 2022.
- 17 Dr. P. P. Javiya and H. A. Prajapati: Samay avi gayo chhe aadarna anadarno. Published in Chitralkha Gujarati. 26 June 2022.
- 18 Dr. P. P. Javiya, H. A. Prajapati and Dr. Sagar A. Patel: Dangarma Dharuvadiyanu vyavsthapan. Published in Krushi Prabhat. 11 June 2022.
- 19 Dr. P. P. Javiya, H. A. Prajapati and Dr. Sagar A. Patel: Dangarni khetima dharuvadiyani taiyari vishe upayogi mahiti. Published in Krushi Prabhat. 13 June 2022.
- 20 Dr. P. P. Javiya, H. A. Prajapati and Dr. Sagar A. Patel: Dangarni khetima piyat ane posan vyavsthapan. Published in Krushi Prabhat. 14 June 2022.
- 21 B. M. Vahunia: How to prepare Bordeaux mixture and bordeaux paste. Published in Krushi Go Vidhya. 01 June 2022.
- 22 Dr. J. J. Pastagiya, Dr. Rahul Pisal and Dr. P. P. Javiya: Nagli-Vari ni sendriya kheti padhdhati. Published in Krushi Jivan. July 2022.
- 23 B. N. Chaudhari, H. A. Prajapati and G. D. Vadodariya: Bantini sudhareli kheti padhdhti. Published in Krushi Jivan. July 2022.
- 24 H. A. Prajapati. Dr. H. E. Patil and Dr. J. B. Dobariya: Halka dhany pakoma poshaktatv ane muluvrudhdhi. Published in Krushi Jivan. July 2022.
- 25 Amol J. Deshmukh, H. A. Prajapati and Dr. H. E. Patil: Halka dhany pakoma jaivik khataronu mahatv. Published in Krushi Jivan. July 2022.
- 26 Dr. H. E. Patil, G. D. Vadodariya and H. A. Prajapati: Nagli/Vari ni bhalamano. Published in Krushi Jivan. July 2022.
- 27 B. M. Vahunia: Vari ni sudhareli kheti padhdhati. Published in Krushi Prabhat. July 2022.
- 28 Tiwari; M. V., Poshia; V. K., Chaudhry; N. V. and Verma; P. D. (2022). Swad evm sehat no anuthokhoj-Naagli, Krishi Jaagan. april 2022. (online).
- 29 Tiwari; M. V. and Verma; P. D. (2022). Mushroom keswadisht & Pausthik utpaad, Krishi Jivan (Hindi), pp.30

