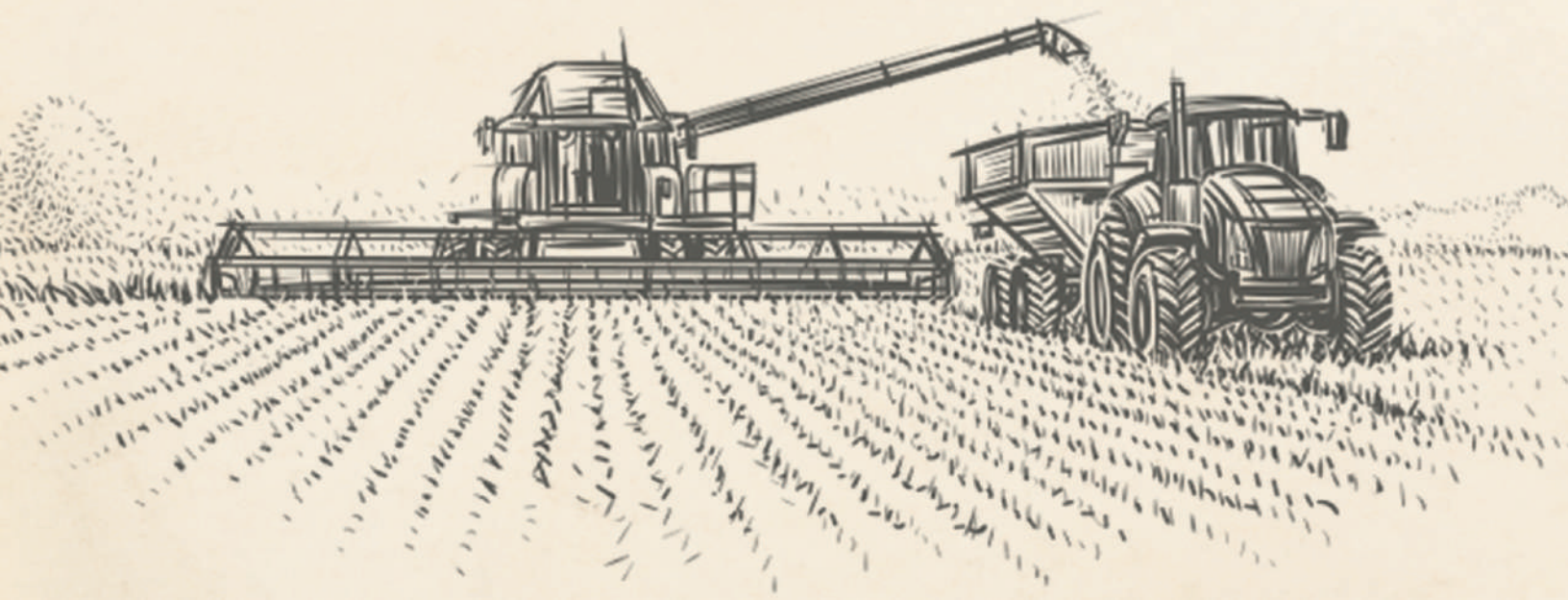


EXTENSION EDUCATION



Chapter - 5



5.1 Directorate of Extension Education

The Directorate of Extension Education was established according to the Chapter-3, Part-IX vide Section 14.1(3) of the Gujarat Agricultural Universities Act-2004, for dissemination of the research findings and technical information through extension education programmes. The main function of the Directorate is to plan, coordinate, organize and guide the extension education programmes in the University and to ensure efficient working of the extension activities in close coordination with other departments and state voluntary organizations, other officers and scientists of the university. The university has been making substantial contribution in diffusing and communicating agricultural technologies among the

extension personnel and farming community of the region. The technologies generated in agriculture and allied sciences by the university are being transferred to the end users. Dr. H. M. Gajipara supervised and guided the extension education activities during the reporting year.

5.2 Extension Education Council

The Extension Education Council was constituted according to the provision of the Gujarat Agricultural Universities Act-2004 in exercise of the statutes No S.31 & notification of Registrar No. JAU/ Reg/ Aca-2/ Ext. Edu. Council/ 13887-13936/ 2013, dated 31-07-2013. 16th Extension Education Council meeting was organized on 19.10.2022.

Extension Education Council:

Sr. No.	Designation/ Department	Position	
1	Dr. V. P. Chovatia, Hon'ble Vice Chancellor, JAU, Junagadh	Chairman	
2	Dr. D. R. Mehta, Director of Research & Dean PG, JAU, Junagadh	Member	
The Deans of all Faculties			
3	i Dr. S. G. Savalia, Principal & Dean, College of Agriculture, JAU, Junagadh	Member	
	ii Prof. (Dr.) Narendra Kumar Gontia, Principal & Dean, College of Agril. Engg. & Technology, JAU, Junagadh	Member	
	iii Dr. D. K. Varu, Principal & Dean, College of Horticulture, JAU, Junagadh	Member	
Five Officer/ Extension Education Specialists (Nominated by the Vice Chancellor)			
4	i Dr. N. B. Jadav, Professor & Head, Department of Extension Education, CoA, JAU, Junagadh	Member	
	ii Dr. K. B. Parmar, Principal, Polytechnic in Agriculture, JAU, Sidsar	Member	
	iii	1. Dr. N. S. Joshi, Senior Scientist & Head, Krishi Vigyan Kendra, JAU, Amreli	Member
		2. Dr. L. L. Jivani, Senior Scientist & Head, Krishi Vigyan Kendra, JAU, Gor Khijadiya (Morbi)	Member
iv	Dr. M. K. Jadeja, Assistant Extension Educationist, Sardar Smruti Kendra, JAU, Junagadh	Member	
5	The Eminent Extension Education Specialists concerned with farmers' training from outside the University co-opted by the organization		



Sr. No.	Designation/ Department		Position
	i	Dr. P. R. Kanani, Retd. Professor, Block No. 47, Rajmoti Society, B/h. Bilnath Temple, Vanthali Highway, Junagadh	Member
	ii	Dr. G. R. Gohil, Retd. Professor, "Parth", Street No. 1, Om Nagar Society, Ivnagar Road, Gandhigram, Junagadh	Member
	iii	Dr. D. M. Thakrar, Retd. Professor, Block No. 403, Giriraj Palace, Near Rameshwar temple, B/h. Bus Station, Junagadh	Member
6	Director of Agriculture, GoG, Gandhinagar		Member
	Director of Horticulture, GoG, Gandhinagar		
	Director of Animal Husbandry, GoG, Gandhinagar		
Two Progressive farmers (Nominated by the Vice Chancellor)			
7	i	Shri Vitthalbhai Nanjibhai Sakhiya, Krushna Nagar, Kalavad- Dhoraji Road, Kalavad, Dist. Jamnagar	Member
	ii	Shri Arvindbhai Mohanbhai Patoliya, "Star Plaza", Jin Plot, Najapur Road, Mendarada	Member
8	Dr. H. C. Chhodavadia, Associate Director of Extension Education, JAU, Junagadh		Member
9	Dr. H. M. Gajipara, Director of Extension Education, JAU, Junagadh		Member Secretary
10	i	Dr. K. C. Patel, Director (IT), Information Technology Cell, JAU, Junagadh	Invited Member
	ii	Director of Extension Education, AAU, Anand	
	iii	Director of Extension Education, NAU, Navsari	
	iv	Director of Extension Education, SDAU, S.K. Nagar	
	v	Dr. C. D. Lakhlani, Principal, PGI ABM, JAU, Junagadh	
	vi	Dr. A. S. Dudhat, Principal, College of Agriculture, JAU, Amreli	

5.3 Extension Education and Training Centres

No.	Course / Programme	Location
Diploma/Certificate Courses		
1	School of Baking	Junagadh
2	<i>Mali</i> Training Centre	Junagadh
3	Agro-Based <i>ITI</i> Centre	Junagadh
Training Programmes for Extension Workers		
1	Training & Visit System Training Centre	Junagadh, Targhadia
2	Centre of Excellence for Training (Oilseeds)	Junagadh
Extension activity and Training Programmes Centres for Farmers/Farm Women		
1	Krishi Vigyan Kendra	Jamnagar, Targhadia (Rajkot-I), Amreli, Khapat (Porbandar), Nanakandhasar

No.	Course / Programme	Location
		(Surendranagar), Pipaliya(Rajkot-II), Gorkhijadiya (Morbi)
2	Sardar Smruti Kendra	Junagadh
Extension Education Programmes for Rural People		
1	Farm Advisory Service Centre	Junagadh
2	Extension Programme for Fisheries	Okha

5.4 Education and Training Programmes

(I) Diploma/Certificate Courses for Farm Youths

The Junagadh Agricultural University continued various Diploma/ Certificate courses during the year under report as per the details given below.

No.	Name of Course	Duration	Location	No. of participants Completed the Course
1	Bakery Training			
	➤ Basic Course in Baking Science	15 weeks	Junagadh	32
	➤ Special Training to Women	1 week	Junagadh	102
2	<i>Mali</i> Training	6 months	Junagadh	11
3	Agro Based ITI Centre	6 months	Junagadh	
	➤ Seed Production Technology	6 months	Junagadh	07
	➤ Green House Construction & Systems Management	6 months	Junagadh	15
Total				167

All these courses are aiming to impart skill oriented practical training to farmers' son/daughter in order to provide an opportunity for self-employment and employment in different organizations'



Certificate distribution Agro ITI Students



Certificate distribution Agro ITI Students



SSK visit by Agro ITI Students

(II) Training Programmes for Extension Workers / Officers

(A) Training & Visit System

Junagadh Agricultural University has taken-up the task of training the extension personnel of the Department of Agriculture and Horticulture, Government of Gujarat through Training & Visit System. The bi-monthly workshops, pre-seasonal training workshops and short-term training programmes were organized for the participants (DAO/SMSs/ AEOs/KVKs) who attended the programmes were as under.

No.	Type of programme	No. of Programmes	No of Participants
1	Bimonthly Workshop	04	150
2	Pre-seasonal Training Programme	02	47
3	<i>Khedut Shibir</i>	12	628
Total		18	825



Pre-Seasonal training programme under T & V scheme



Bi-Monthly training programme under T & V scheme

(B) Other Training Programmes

The centre has continued to provide scientific knowledge to the farmers. The detail of the programmes are as under.

***Khedut shibir* and Diagnostic team visit**

No.	Subject	No. of Activities	No. of Scientists involved	Beneficiaries
1	<i>Khedut Shibir</i>	140	287	3325
2	Diagnostic Team	43	184	985



Farmers training programme under COC Scheme



Farmers training programme under COC scheme



Farm Women training programme under COC Scheme



Khedut Shibir at Bavani pipali village under COC Scheme

Training programmes for Input Dealers during 2022-23:

No.	Title of course	Duration	Participants
1	Certificate course on Pesticide Management	12 days	1125
2	Certificate course on Pesticide Management	12 days	939
3	Certificate course on Pesticide Management	12 days	221
Total			2285



Certificate Distribution of Dealers course at KVK Morbi



Inauguration of Input Dealers course at Junagadh



Certificate Distribution of Dealers course at KVK Rajkot



Industrial Visit by Input Dealers

Training programmes for Fertilizer Dealers during 2022-23:

No.	Title of course	Date	Duration	Participants
1	Integrated Nutrient Management for Fertilizer Dealers	01-04-2022 to 15-04-2022	15 Days	71
2		02-05-2022 to 16-05-2022		77
3		01-06-2022 to 15-06-2022		92
4		27-06-2022 to 11-07-2022		67
5		25-07-2022 to 08-08-2022		75
6		29-08-2022 to 12-09-2022		75
7		15-09-2022 to 29-09-2022		80
8		06-10-2022 to 20-10-2022		73
9		03-11-2022 to 17-11-2022		81
10		19-11-2022 to 02-01-2023		92
11		06-01-2023 to 20-01-2023		99
12		14-03-2023 to 28-03-2023		75
			Total	957



Examination of Fertilizer Dealers course



Visit of biochemistry Lab. by Fertilizer Dealers

(III) Training / Extension Education Programmes for Farmers/Farm Women

(A) Training Programmes

Training is essential to increase the efficiency of farmers, farmwomen, rural youth and other stakeholders etc. On-campus as well as Off-campus training programmes were organized based on the need

and interest of the farming community.

Through the Transfer of Technology (TOT) Centres, 212 On-campus and 233 Off-campus training programmes were organized, wherein 18675 participants received training. The details are given in Table 5.1.

Table 5.1 Training programmes organized by the Transfer of Technology Centres (KVKs) for farmers/farm women during the year 2022-23

No.	TOT Centre		No. of Trg. Prog.	No. of participants		Total
				Male	Female	
1	KVK, Jamnagar	A	20	618	274	892
		B	34	1855	427	2282
2	KVK, Targhadia	A	41	871	563	1434
		B	21	632	376	1008
3	KVK, Amreli	A	39	1014	657	1671
		B	64	1997	1512	3509
4	KVK, Khapat	A	20	230	251	481
		B	22	207	273	480
5	KVK, Nanakandhasar	A	44	772	294	1066
		B	31	584	205	789
6	KVK, Pipalia	A	18	469	135	604
		B	35	1300	439	1739
7	KVK, Gor Khijadiya	A	30	1248	156	1404
		B	26	1094	222	1316
	Total	A	212	5222	2330	7552
		B	233	7669	3454	11123
Grand Total			445			18675

A= On-campus B= Off-campus





On Campus training programme at KVK, Jamnagar



Off Campus training programme by KVK, Morbi

(B) Extension Activities

The Transfer of Technology (TOT) centres also planned and organized extension activities like seminars/workshops/symposium, field/farmers' day, agriculture fair/exhibitions, film/slide/video shows, field visits, cattle camps, farmers' group/demonstration meetings *etc.* by which total 95,875 farmers, farm women, youth and other stakeholders benefited. The details of the extension activities and number of participants are given in Table 5.2

KVKs play an important role to provide guidance for income generation to the farmers by imparting skill-oriented trainings. Besides this, KVKs also conducted different types of extension activities, field day, cattle camp, on farm testing, dignostic team *etc.* The KVKs are also collecting feedback on farmers' problems, which were sent to the concerned scientists for guidance and solution with guideline in reforming further research.

Table 5.2 Extension activities carried out by TOT centres during 2022-23

No.	Name of activity	KVK							Total
		Targhadia	Jamnagar	Khapat	Amreli	Nana Kandhasar	Pipalia	Gor Khijadia	
1	Krushu Mela	0	1 (390)	1 (329)	1 (225)	2 (1010)	1 (250)	1 (324)	7 (2528)
2	Field day	1 (9)	6 (90)	0	16 (233)	6 (168)	03 (72)	1 (25)	33 (597)
3	Guidance on farm	6 (28)	13 (103)	14 (59)	10 (260)	11 (116)	15 (110)	30 (174)	99 (850)
4	Guidance to visitors	34 (1400)	134 (1611)	108 (108)	15 (297)	(2362)	50 (189)	25 (358)	366 (6325)
5	Press note	9	24	14	21	08	03	5	84
6	Khedutshibir/ Night shibir/ Group discussion	2 (35)	12 (572)	0	4 (189)	0	0	3 (2685)	21 (3481)



No.	Name of activity	KVK							Total
		Targhadia	Jamnagar	Khapat	Amreli	Nana Kandhasar	Pipalia	Gor Khijadia	
7	Guidance through Telephone	(1172)	(4049)	(329)	(685)	(3034)	(200)	(1824)	(11293)
8	Krushigosthi/ Seminar	2 (41)	20 (3283)	1 (89)	0	0	03 (1105)	13 (112)	39 (4630)
9	Khedut meeting	0	1 (8)	3 (289)	0	0	11 (236)	2 (265)	17 (798)
10	T.V. Programme	0	3	0	0	0	3	2	8
11	Radio talk	1	3	3	50	0	8	0	65
12	Popular articles	0	5	1	3	0	3	1	13
13	Video show/ Film show	8 (1250)	10 (561)	5 (263)	12 (612)	21 (2560)	05 (972)	0	61 (6218)
14	Cattle camp	3 (179)	0	0	0	00	05 (45)	0	8 (224)
15	Literature distribution	(1854)	(1499)	(1650)	(1054)	(3076)	(1500)	(2300)	(12933)
16	Literature published	6	5	1	1	5	2	4	24
17	Lectures delivered	30 (1467)	228 (2241)	18 (553)	155 (4887)	427 (10462)	22 (1345)	1 (122)	881 (21077)
18	Scientist's Farm visit	6 (28)	24 (228)	14 (59)	46 (653)	28 (505)	23 (86)	30 (174)	171 (1733)
19	Vocational training	1 (35)	1 (30)	0	1 (65)	0	3 (96)	0	6 (226)
20	Sponsored/ Collaboration training	2 (76)	6 (467)	13 (1922)	16 (883)	38 (2185)	13 (823)	8 (771)	96 (7127)
21	Diagnostic team	0	8 (40)	0	13 (293)	00	21 (107)	11 (50)	53 (490)
22	Student (RAWE)	2 (102)	1 (23)	3 (137)	2 (57)	7 (158)	03 (105)	0	18 (582)
23	Celebration of Technology Week	1 (385)	1 (829)	1 (263)	1 (185)	5 (290)	1 (275)	1 (126)	11 (2353)



No.	Name of activity	KVK							Total
		Targhadia	Jamnagar	Khapat	Amreli	Nana Kandhasar	Pipalia	Gor Khijadia	
24	Soil Sample Analyzed	100	0	106	21	0	0	66	293
25	Participated in Agril. Exhibition	2 (2500)	1 (390)	1 (329)	1 (44)	10 (1695)	0	0	15 (4958)
26	Any other please specify	12 (1635)	8 (666)	11 (1247)	14 (1505)	10 (332)	8 (591)	8 (1476)	71 (7452)
								Total	2460 (95875)

Figures in parentheses indicate number of *beneficiaries/copies*

(C) Front Line Demonstrations (FLD)

The aim of Front Line Demonstration is to demonstrate the production potentialities of newly released and pre-released production technologies of cotton, wheat, cumin, vegetables, pulses and oilseeds on farmers' fields.

In all, **1223 FLDs** were conducted on various oilseeds and pulses, Crop technologies *viz.*, castor, mustard, groundnut, sesame, cotton, gram, wheat, pearl millet and cumin crop technologies in **402.5 ha** during *kharif* and *rabi* seasons through KVKs. The results are present in Table 5.3

Table 5.3: Performance of Frontline Demonstrations organized during 2022-23

No	Centre	Crop	Variety/ Treatment	No. of FLDS	Area (ha)	Av. yield (q/ha)		Incre ase in yield (%)
						Demo.	Local check	
1.	KVK, Targhadia	Groundnut	Variety (GJG-32)	10	4.0	20.00	18.00	11.11
		Groundnut	IPM (Chlorphyriphos)	10	4.0	16.50	15.00	10.00
		Chickpea	Variety (GJG-6)	10	4.0	22.00	19.00	15.78
		Cumin	IPM	10	4.0	10.75	8.20	31.09
		Cumin	IDM	5	2.0	10.00	8.20	29.95
		Wheat	INM	5	2.0	46.00	42.00	9.5
		Brinjal	Variety (GJLB-4)	20	8.0	155.25	120.10	29.26
		Brinjal	Variety (GJB-3)	10	4.0	160.0	123.0	30.08
		Tomato	Variety (GT-6)	20	8.0	170.0	130.0	30.70
		Groundnut	Variety+INM+IPM	50	20.0	23.3	19.50	19.45
		Chick pea	Variety (GJG-6)	50	20.0	22.60	19.50	15.90

No	Centre	Crop	Variety/ Treatment	No. of FLDS	Area (ha)	Av. yield (q/ha)		Increase in yield (%)
						Demo.	Local check	
		Groundnut	Variety+INM+IDM	50	20.0	22.80	19.25	18.44
		Chick pea	Variety+INM+ IPM+ IDM	50	20.0	27.00	15.00	21.00
2.	KVK Jamnagar	Sesame	Improved Var.(G. Til-5), <i>Beauveria bassiana</i> , Trichoderma, PSB, Azotobactor	25	10	8.40	7.15	17.60
		Groundnut	Improved Var.(GJG.-22), <i>Metarhizium</i> , <i>Trichoderma</i> , PSB, <i>Rhizobium</i>	50	20	16.85	15.52	8.54
		Chickpea	Seed GG-5, <i>Beauveria</i> , <i>Trichoderma</i> , <i>Azotobactor</i> , PSB	50	20	27.31	23.33	17.09
		Castor (ATIC)	GCH-9	20	8	35.19	31.19	12.83
		Pearl millet	GHB-1231	10	4	42.50	36.94	15.43
		Sorghum	GNJ-1	25	10	28.5	23	23.91
		Wheat	Variety –GW 463	10	4	54.0	48.88	10.43
		Ajwain	<i>Beauveria</i> , <i>Trichoderma</i> , <i>Azotobactor</i> , PSB	10	04	7.0	6.13	14.29
		Cumin (ATIC)*	<i>Beauveria</i> , <i>Trichoderma</i> , <i>Azotobactor</i> , PSB,	20	8	8.75	7.90	10.76
		Coriander (ATIC)*	<i>Beauveria</i> , <i>Trichoderma</i> , <i>Azotobactor</i> , PSB,	20	8	14.55	13.56	7.28
		Cotton	<i>Beauveria</i> , SNPV, MDP, Azadirachtin	25	10	16.2	13.9	17.1
		Chicory	<i>Beauveria</i> , <i>Azotobactor</i> , PSB	5	2	136.5	127.75	7.01



No	Centre	Crop	Variety/ Treatment	No. of FLDS	Area (ha)	Av. yield (q/ha)		Increase in yield (%)
						Demo.	Local check	
		Kitchen Garden	Vegetable seed, <i>Beauveria bassiana</i>	50	2	524.40 kg/unit	427.20	22.75
		Animal (Cow)	Bypass Fat	3	-	1081 li./5 maonth	995	8.64
		Cotton	Cotton picking Apron	5	2	3.76kg/h r	3.44	9.30
3.	KVK Amreli	Sesame	GT-3	10	4	10.21	8.22	24.4
		Black Gram	Guj. Urd-2	10	4	9.74	8.71	16.9
		Green Gram	GAM-5	10	4	11.26	8.77	28.6
		Watermelon	Plastic mulch	10	4	326.5	235.7	38.52
		Castor	GCH-9	10	4	29.2	25.66	13.80
		Cotton	G. Cot. 24 (BT)	10	4	19.31	16.43	20.57
		Soybean	GJS-3	10	4	18.98	15.98	18.94
		Coriander	GC-3	10	4	15.265	13.235	15.34
4.	KVK Khapat	Groundnut	GJG-22	10	4	29.63	26.19	13.13
		Cotton	Pheromone trap + <i>Beauveria bassiana</i>	25	10	26.85	24.68	8.98
		Chickpea	HNPV + <i>Beauveria bassiana</i>	10	4	22.25	20.13	10.72
		Wheat	GW-451	10	4	48.63	44.13	10.45
		Kitchen gardening	Seed packet of 5 veg.	50	2.5	40.19 kg/demo	-	-
		Kitchen gardening	Seed packet of 5 veg.	50	2.5	47.34 kg/demo	-	-
5.	KVK Nankhadhasar	Chickpea	GG-5	10	04	28.89	25.04	15.37
		Cumin	GC-4	20	08	08.74	7.62	14.82
		Wheat	GW-451	20	08	45.50	40.89	11.27
		Lucerne	AL-3	10	01	401.00	335.00	19.70
		Onion	GJWO-3	10	01	308.00	266.00	15.79
		Sesame	GT-4	10	04	05.26	04.70	11.97
		Groundnut	Gir Sawaj <i>Metarizium</i>	10	04	23.56	20.70	13.83

No	Centre	Crop	Variety/ Treatment	No. of FLDS	Area (ha)	Av. yield (q/ha)		Incre ase in yield (%)
						Demo.	Local check	
		Groundnut	Gir Sawaj Trichoderma	10	04	22.00	19.26	14.23
		Cotton	MDP – 400 gm	10	04	21.16	19.80	6.88
		Tomato	GT-6 and <i>Beauveria</i>	10	01	270.05	249.70	8.33
		Chilli	GVC-101 & <i>Beauveria</i>	10	01	95.00	83.00	14.46
		Groundnut (Oilseed) CFLD	GJG-32 & Bio Agents	25	10	19.77	15.98	23.72
		Chickpea (Pulse) CFLD	GG-5 & Bio Agents	50	20	21.03	17.25	16.42
6.	KVK Morbi	Groundnut	Seed treatment of <i>Rhizobium</i> <i>Leguminosarum</i> Isolated-1 a 10 ml/kg seed	20	8.00	17.72	16.70	6.11
		Cotton	Management of pink ball worm through MDP	10	4.00	21.76	20.90	4.10
		Chickpea	GG-5	10	4.0	19.51	18.46	5.69
		Pearlmillet	GHB-538	5	2.0	32.8	34.6	00
		Cumin	GC-5	5	2.0	5.12	5.11	00
7.	KVK Pipalia	Groundnut (Tricho)	GG - 20	10	4	27.9	23.5	18.62
		Groundnut	GG - 20	10	4	31.9	25.9	23.19
		Cotton (INM)	Bt.	10	4	30.9	28.1	9.78
		Cotton (IPM)	Bt.	5	5	30.5	27.4	11.42
		Tomato Micronutrient	INM	10	4	333	322	3.37
		Onion	INM	10	4	228	220	3.69
		Farm Women	Vegetable seeds	50	0.5	791.22	675.02	18.22
Total				1223	402.5			



(D) Farm Advisory Service Scheme / SSK, Junagadh

The Farm Advisory Service Scheme has been continued at SSK, Junagadh with a view to provide guidance and the latest information to the farmers on scientific farming. The farmers were advised regarding

their farm problems through correspondence and field visits. This centre acted as a link among research scientists, extension workers and farmers. During the year under report, various extension activities carried out by the centre are given below.

No.	Name of activity	No. of activities	No. of participants
1	Agril. Fair	02	26620
2	Agril. Exhibitions	02	20943
3	Guidance (Telephone & Personal Contact)	10019	6259
4	Visitors	6259	6259

(E) Extension Activities under Centre of Communication (COC) Scheme Objectives of COC Scheme:-

- To establish the *Gram Kisan Samitis* (GKS) in the rural areas.
- To train the members of *Gram Kisan Samitis* in leadership, communication and cooperation for transfer of technologies.

- To disseminate the latest agricultural and allied technologies through *Gram Kisan Samitis* in rural areas.
- To carry out different extension activities through GKS in different villages.
- To know the feedbacks from the farmers.

Training Programmes under Centre of Communication (COC) Scheme during 2022-23

No.	Subject	No. of Training Programmes	No. of Beneficiaries
1	Honeybee Training	3	136
2	Farmers Training	6	218
4	<i>Khedut Shibirs</i>	3	98
Total		12	452

Formation of *Gram Kisan Samitis* during the year 2022-23

No	Date	Village	Taluka	District	Beneficiaries
1	06/11/2022	Krushnapur	Kalavad	Jamnagar	12
2	10/11/2022	Nagpur	Kalavad	Jamnagar	12
3	15/11/2022	Lakshmipur	Kalavad	Jamnagar	12
4	17/11/2022	Shitla(Kalavad)	Kalavad	Jamnagar	12
5	19/11/2022	Balambhadi	Kalavad	Jamnagar	12
6	23/11/2022	Nana Khijadiya	Kalavad	Jamnagar	12
7	10/12/2022	Nani Vavdi	Kalavad	Jamnagar	12
8	12/12/2022	Snala	Kalavad	Jamnagar	12
9	15/12/2022	Sarvaniya	Kalavad	Jamnagar	12
10	20/01/2023	Nani Nagjar	Kalavad	Jamnagar	12
11	15/02/2023	Sortha	Kalavad	Jamnagar	12
Total					132

Khedut Shibirs organized during the year 2022-23 under COC scheme

No.	Date	Village	Taluko	District	Beneficiaries
1	18/05/2022	Akala	Junagadh	Junagadh	28
2	08/06/2022	Khadiya	Manavadar	Junagadh	32
3	12/01/2023	Bavani Pipli	Keshod	Junagadh	38
Total					98

Bakery Talim organized during the year 2022-23 under COC scheme

No.	Date	Village	Taluko	District	Beneficiaries
1	14/06/2022	Bodka	Manavadar	Junagadh	39
2	17/06/2022	Bhalechda	Manavadar	Junagadh	23
3	19/06/2022	Joshipara	Junagadh	Junagadh	36
4	27/01/2023	Bavani Pipli	Keshod	Junagadh	45
5	10/02/2023	Keshod	Keshod	Junagadh	156
6	10/02/2023	Naredi	Manavadar	Junagadh	56
7	28/03/2023	Jam Kandorna	Jam Kandorna	Rajkot	192
Total					547

Green House/ Net House Training organized during the year 2022-23 under COC scheme

No.	Date	Village	Taluko	District	Beneficiaries
1	01-17/08/2022		Saurashtra		54
2	07-21/02/2023		Saurashtra		36
Total					90

(F) Extension Activities carried out by Extension Education Centres

Extension activities carried out by various Extension Education Centres during the year are given below.

No.	Name of activity	Sardar Smruti Kendra, Junagadh	Fisheries Res. Station, Okha	School of Baking, Junagadh	Total
1	Krusha Mela	1 (27285)	0	02 (1700)	2 (28985)
2	Guidance on farm	0	0	0	0
3	Guidance to visitors	(6259)	(636)	(200)	(7095)
4	Press note	06	0	0	06
5	Khedutshibir/ Night shibir/ Group discussion	02 (59)	01 (18)	0	03 (77)

No.	Name of activity	Sardar Smruti Kendra, Junagadh	Fisheries Res. Station, Okha	School of Baking, Junagadh	Total
6	Guidance through Telephone	(3760)	(285)	0	(4045)
7	Khedut talim/Khedut Mahila talim	26 (1519)	0	0	26 (1519)
8	Video show/ Film show	0	0	0	0
9	Literature distribution	01 (8000)	0	0	01 (8000)
10	Literature Publication	01	0	0	01
11	Fisheries Training	0	0	2 (33)	2 (33)
12	Bakery Training	0	0	42 (2401)	42 (2401)
13	Agri.Exhibition	02 (26620)	0	0	02 (26620)
14	Agri.Literature show	02 (20943)	0	0	02 (20943)
				Total	87 (99718)

*Figures in parentheses indicate numbers of beneficiaries/copies



Educational Tour at SSK



On Campus Farmers Training at SSK



Farm Women training at SSK



Exposure visit of Farm Women at SSK

Radio Talks and TV Programmes

The scientists of the university delivered radio talks from time to time on various agricultural and allied subjects from All India Radio, Rajkot. Moreover, the broadcast of agricultural messages were also made from All India Radio, Rajkot. During the year, total 16 such talks were delivered on different topics related to agriculture, horticulture, agricultural engineering, animal husbandry, etc.

In all, total 16 television programmes covering various aspects of agriculture, animal husbandry, agricultural engineering, horticulture, fisheries, home science, etc. were telecast through Doordarshan Kendra, Rajkot in “Gram Jagat” “Krishi Darshan” programme for the benefit of farming community.

Establishment of AGRISNET studio and Community Radio Station (CRS)

AGRISNET studio is established with objective to produce and disseminate agricultural technologies to

Different activities of AGRISNET Studio

Sr. No.	Subject	No. of Programs	Beneficiaries
1	Broadcasting through Radio	14600 programs (1460 Hours Broadcasting)	Farmers, students and people of Junagadh city and surrounding 66 villages
2	Agriculture related events/ documentaries	28	These documentaries were visited by >26,00,000 viewers so far. Subscribed by >43000 subscribers
3	Small Video Clips	47	Farmers of various whatsapp groups of JAU scientist / centers

farmers through electronic media/ format. Under LIFE (Live Interaction with Farmers' through Electronic media) two innovative programs started. Two, LIVE YOUTUBE STREAMING, in which live program broadcasted through YouTube. Reliance Foundation and ATMA project, Junagadh popularized these programs through their farmer related WhatsApp contacts.

The CRS is transmitting FOUR hours program daily. It covers about 15 km area having 66 villages and Junagadh city. To bring larger area under reach of broadcasting radio content, Android Based Mobile Application launched in June 2021. Through audio streaming by this App, the content of Junagadh Janvani 91.2 MHz can be listened to whole world. There is big response to this App. AGRISNET studio established with objective to produce and disseminate agricultural technologies to farmers through electronic media/ format.



Sr. No.	Subject	No. of Programs	Beneficiaries
4	Live broadcasting of program by JAU expert on TV channel Vande Gujarat 04 Talks through BISAG	09	Broadcasting of 60 minutes episode on agri related programs of JAU scientists through BISAG, Gandhinagar on TV Channel Vande Gujarat 04.
5	Talks Through Doordarshan, Rajkot	12	Broadcasting of 25 minutes episode on agri related programs of JAU scientists Doordarshan, Rajkot.
6	Talks through Akashvani, Rajkot	16	Broadcasting of 25 minutes radio episode on agri related programs of JAU scientists Akashvani, Rajkot.
7	Visitors	1130	Farmers, students and others for participation in audio recording visited CRS station.
8	Photography	102 Events (6510 Photographs)	For documentation, publication and exhibition/ display of various activities/ events on education, research and extension education of JAU, photography and archive maintenance is carried out at AGRISNET studio.

Different activities Photographs of AGRISNET Studio



Farmers Visit at Agrisnet Studio



Farm women visit at Agrisnet Studio



Dr. Bhavesh Erada , Additional Sacratory visit Agrisnet studio



Dr. R. C. Agraval DDG (Education), ICAR visited Agrisnet studio



Students visited Agisnet Studio



Innovative Farmers at Agrisnet Studio

Coordination of Extension Activities with Department of Agriculture, Horticulture, Animal Husbandry and other Line Departments

Junagadh Agricultural University planned and organized various extension education programmes/activities in coordination with different line departments of the state. The structural linkages exist under T & V system by constituting the technical committee at district, zonal and state level. The agricultural programmes of All India Radio as well as Doordarshan were finalized by such coordinated efforts. In AGRESKO, the officers of line departments are the members and they contribute in formulation of technical programmes as well as in finalizing the recommendations for the farmers. The functional linkages also exist under T & V system through bi-monthly workshops, pre-seasonal workshops, fortnightly training, diagnostic team, state level crop seminars/workshop, etc. The coordination exists in follow-up programmes as well as in planning of farm trials. For transfer of technologies to the farmers, the farmer's day, *krushi mela*, group discussion, film show, etc. were organized through collaborative efforts.

5.5 Orientation Training Programme

During the year under report, 231 scientists/teachers of the University were deputed in the orientation training programmes/ seminars/ workshops/ symposium, etc. organized within and outside the state to upgrade their knowledge and skill for improving faculty competence in respective disciplines.

5.6 ICAR projects

1. Farmer FIRST programme

The Farmer FIRST (Farm, Innovations, Resources, Science and Technology) Programme aims at enriching Farmers-Scientist interface with focus on technology assemblage, application and feedback, partnership and institutional building and content mobilization. This project was started on 30th, January 2017 by Junagadh Agricultural University under ICAR. The scientists working as investigators in this project prepared different interventions through technology assemblage considering the availability and applicability of technologies and resources of farmers.

Accordingly, Crop based modules (wheat, chickpea, sesame and green gram), Crop diversification module, Horticultural based module and Livestock based module were prepared for implementation in selected villages *i.e.* Rafala and Ghantiyan of Amreli district. The farmers of these villages were given advisory through personal discussion, trainings, field visits etc. for implementing the experiments in their farms. The results of experiments showed increased in yield of crops and milk production and thereby increase in income of the farmers.

During the year, 322 extension activities were carried out with participation of more than 2100 farmers for wider adoption of improved practices as well as motivating them for entrepreneurship through bakery training, processing and value addition of fruit crops for additional income.

Details of extension activities under FFP during 2022-23

Sr. No.	Name of activity	Number of Programmes
1	Village meetings/ Group discussions/ <i>Kisan Ghosthi</i>	65
2	Training Programmes/ Exposure visits	04
3	Field visits by project team members	45
4	Innovative farmers identified/ case studies	06
5	WhatsApp Group messages/chats/ video clips	322

Photographs of different activities carried out under FFP 2022-23



Inputs distribution to the selected farmers



Training Programme for farmers at JAU



Bakery Training for farm women at FFP Village



Scientists and Farmers in demonstration



Farmers meeting at FFP village



Exposure visit Cattle Breeding Farm, Junagadh



Scientists- Farmers night meeting



Field visit and monitoring of the intervention

2. Mera Gao Mera Gavarav (MGMG)

Table 1: Institute Summary

Year	Total No. of Groups/team formed	No. of Scientists Involved	No. of villages covered
2022-23	30	115	150

Table 2: Activities organised under MGMT

S. No.	Name of activity	2022-23	
		No. of activities conducted/provided	No. of farmers participated & benefitted
1.	Visit to village by all teams	131	2009
2.	Interface meeting/ <i>Goshthies</i>	73	1260
3.	Training organized	66	1562
4.	Demonstrations conducted	169	231
5.	Mobile based advisories	1350	9381
6.	Literature support provided	277	6491
7.	Awareness programmes	105	3248
Total		2171	24182



Table-3: Linkages developed with other agencies under MGMG

No.	Linkages developed with other agencies	Year	No. of Agency	Farmers Benefitted (No)
1		2022-23	15	1174

Table-4: Facilitation under MGMG

2	Facilitation	2022-23			
i) Seeds		Crop	Variety	Seeds provided in quintal/No.	Farmers Benefitted (No)
		Castor	GCH-9	0.10 Q	5
		Groundnut	GJG-32	0.3	4
		Sesame	GT-6	0.01	2
		Brinjal	GRB-7	0.003	3
		Tomato	GT-6	0.003	3
		Vegetable Seeds	Go-6	25.0 gm.	25
			Pusa nav bahar	15.0 gm.	
			AVC-1	30.0 gm.	
			GJB-3	7.00 gm.	
	GT-6		7.00 gm.		
	PUSA NAVIN		10.0 gm.		
		GJSG-2	10.0 gm.		
		Gujarat Kakdi-1	7.0 gm.		
	Groundnut	GJG-22	1.20 qtl.	4	
	Kitchen garden	GT-6, GJLB-4, Guj.Cu.-1, GRG-2, GO-6	185 packets	37	
	ii) Seedlings	-	-	-	
	iii) Nutrient management	Crop	Quantity (quintal/Kg)		Farmers Benefitted (No)
	a) Fertilizer	-	-		-
	b) Bio-fertilizer	Coriander	40 Kg		20
		Coriander	60 kg		20
		Brinjal	1 LIT/ACRE		3
	iv) Technology (No.)	Numbers	Name of technology	Area (ha)	Farmers Benefitted (No)
		1	GC-4 and Bio-agents	16	40
		2	GW-451 and Bio-agents	16	40

		3	GT-6 and Bio-fertilizer	08	20
		4	GCH-10 BG-II and Bio-fertilizer	08	20
v) Livestock/poultry/ fisheries		Numbers		Farmers Benefitted (No)	
a) Livestock		20		20	
b) Poultry chicks		5		5	
c) Fingerlings		-		-	

Activity-wise action photographs for 2022-23



Training organized at Akala village



Training organized at Mota Bhandariya Village



Diagnostic Visit at Chitravad village



Diagnostic Visit at Pipaliaraj Village



Field day in Groundnut Crop in Arnej Village



On campus training for farm women

3. Attracting and Retaining Youth in Agriculture (ARYA)

A. KVK Targhadiya

Objectives of the ARYA Project:

1. To attract and empower the youth in rural areas to take up various agriculture, allied and service sector enterprises for sustainable income & ainful employment in selected districts.
2. To enable the farm youth to establish network groups to take up resources and capital intensive activities like post-harvest technology, processing & value addition, nursery management, milk processing and marketing.
3. To demonstrate functional linkage with different institutions and stakeholders for convergence of opportunities available under various schemes/ program for sustainable development of youth.

Training and Skill Development Programmes:

Sr.	Training	No. of Youth participated
1	Nursery management	22
2	Post-harvest technology and value addition	25

Establishment of Enterprises at different villages under ARYA Project:

The groups of youth having age of 18 to 35 years have been formed and established various enterprises in selected villages of Rajkot district.

Critical Inputs/Equipment/Machinery provided for various enterprise under ARYA:

1. Two Mini Oil Mill Units for processing of groundnut and other oilseeds (Rs. 3,61,200/- x 2 unit= Rs. 7,22,400/-)
2. One Pulverizer machine (Masala Mill) for processing of spices (Rs. 82,110/-)
3. One Namkeen (Farsan) making machine (Rs. 16,800/-)
4. One Milk-Mava making unit for milk processing (Rs. 63,000/-)
5. One Mini Dal Mill Unit (Rs. 1,62,000/-)
6. One Mini Cleaning cum Grading Machine Unit (Rs. 56,000/-)
7. One Nursery Unit (Rs. 24.050/-)

Brief about enterprise-wise interventions:

1. Mini Oil Mill Unit at Targhadi village of Paddhari taluka:

An entrepreneurial group of 15 rural youths in Taraghadi village started enterprise of Mini Oil Mill unit during the year 2017 and producing groundnut oil through processing of groundnut. The group earning net profit of Rs. 1,66,600 per month by selling groundnut oil and cake. This enterprise is run more than 8 month during the year and average employment generate for 10 youth in a year. This enterprise earning net profit of Rs. 13,32,800 during the reported year.

2. Mini Oil Mill Plant at Raningpar village of Jasdantaluka:

An entrepreneurial group of 15 rural youths in Raningpar village started enterprise of Mini Oil Mill unit during the year 2017. The group earning net profit of Rs. 1,36,250 per month through processing of groundnut by enterprise of mini oil mill plant. This enterprise is run more than 8 month during the year and earning net profit of Rs. 10,90,900 during the reported year.

3. Entrepreneurship development through spices processing:

An enthusiastic group of 7 rural youths in Gadhaka village started enterprise of Spice processing unit during the year 2017. This enterprise is run more than 6 month during the year and earning net profit of Rs. 3,95,500 during the reported year.

4. Entrepreneurship development through Namkeen (Farsan) making:

An entrepreneurial group of 5 youths at Targhadia village started Namkeen making enterprise during

the year 2017. They making and selling Namkeen (Farsan) products and earning net profit of Rs. 4,10,000 per year.

5. Milk-Mava making at Ambardi village:

The active group of 8 youths at Ambardi village of Jasdantaluka started milk processing enterprise during the year 2017. They are producing milk-mava by processing of raw milk. The group generated net profit of Rs. 43,300 per month. This enterprise is run through out the year and average employment generate for 5 youth in a year This enterprise earning net profit of Rs. 4,33,000 during the reported year.

6. Mini cleaning cum grading machine unit at Dungarka village of Paddhari taluka:

An entrepreneurial group of 8 rural youths in Dungarka village started enterprise Mini cleaning cum grading machine unit during the year 2020. This enterprise is run 5 month during the year and earning net profit of Rs. 2,95,000 per year.

7. Mini Dall Mill unit at Sal Pipaliya village of Paddhari taluka:

An entrepreneurial group of 10 rural youths in Sal Pipaliya village started enterprise Mini Dall Mill unit. This enterprise is run 6 month during the year and earning net profit of Rs. 4,25,000 per year.

8. Nursery unit at Gunda village of Rajkot taluka:

An entrepreneurial group of 2 rural youths in Gunda village started enterprise Nursery unit. This enterprise earning net profit of Rs. 2,00,000 per year.

B. KVK Amreli

ARYA Project Information (Summary)

Sr. No	Name of KVK	State	No. of entrepreneurial units established	No of Group formed	No. of Training programs organised	No. of rural youth trained		No. of youth established units	
						Male	Female	Male	Female
1.	Amreli	Gujarat	8	8	15	953	361	4	4





KVK, Amreli activities and outcome under ARYA

Sr. No.	Name of Enterprise (No.1): Mini Dal Mill	
1	The month and year of establishment	February ,2022
2	No. of youths established their own entrepreneurial units	05
3	No. of groups formed	05
4	Number of youths associated with each group	8-10
5	No. of training programmes organized	07
6	No. of youths oriented/trained/skilled in the enterprise	454
7	No. of youths/groups who are running the entrepreneurial units in a sustainable manner	Youth:02, Group: 02
8	Average Size of each entrepreneurial unit	300 Kg/ha
9	Per unit cost of production	6000/ q
10	Sale value of the produce in the market	100/ Kg
11	Economic gains from the entrepreneurial units Rs/unit/year	1,20,000/-
12	Employment generated due to establishing entrepreneurial units	10
13	No. of youths who got employment for how many days in a year	60
14	Average income of youths before ARYA project (Rs./year)	40,000/-
15	Average income of youths after ARYA project (Rs./year)	1,20,000/-
Sr. No.	Name of Enterprise (No.2): Masala Unit	
1	The month and year of establishment	February, 2022
2	No. of youths established their own entrepreneurial units	03
3	No. of groups formed	03
4	Number of youths associated with each group	5-8
5	No. of training programmes organized	05
6	No. of youths oriented/trained/skilled in the enterprise	520
7	No. of youths/groups who are running the entrepreneurial units in a sustainable manner	Youth:01 , Group:00
8	Average Size of each entrepreneurial unit	50 Kg/hr
9	Per unit cost of production	4500/q
10	Sale value of the produce in the market	300/Kg turmeric powder, Chilli powder 250/Kg
11	Economic gains from the entrepreneurial units Rs/unit/year	2,50,000/-
12	Employment generated due to establishing entrepreneurial units	04

Sr. No.	Name of Enterprise (No.2): Masala Unit	
13	No. of youths who got employment for how many days in a year	50
14	Average income of youths before ARYA project (Rs./year)	1,00,000/-
15	Average income of youths after ARYA project (Rs./year)	2,50,000/-

4. Summary information in tabular forms:

Details about enterprises-based modules

Name of Enterprise	No. of youths involved	Products generated with units	No. of youths started enterprise	Average income of farmers before ARYA project (Rs.)	Average income of farmers after ARYA project (Rs.)	Increase in average income (Rs.)
Mini Dal Mill	454	1400 Kg	05	40,000/-	1,20,000/-	80,000/-
Masala Unit	520	1500 Kg	03	1,00,000/-	2,50,000/-	1,50,000/-
Milk Mava Unit	340	150 Kg	02	00	15,000/-	15,000/-

Capacity building program for rural youths

Name of training/ awareness programmes	No. courses	No. of youths	No. of youth started enterprise	Average income of farmers before ARYA project (Rs.)	Average income of farmers after ARYA project (Rs.)	Increase in average income (Rs.)
Scientific cultivation pulses and their value addition	07	454	05	40,000/-	1,20,000/-	80,000/-
Scientific cultivation spices and their value addition	05	520	03	1,00,000/-	2,50,000/-	1,50,000/-
Value addition of Milk	03	340	02	00	15000/-	15,000/-





Case study

Income generation through Mini dal mill

<p>Background of farmer:</p>	<p>Vipulbhai Mujpara is progressive farmers doing their traditional cultivation of cotton crop in Krushnagadh village of Savarkundla taluka. He cultivated Bt cotton last 10 year and got good income but due to climate change and heavy attack of pink bollworm their income from agriculture decreased year by year. He started to look for a private job city and thaught about migration from their village for livelihood.</p> <p>Vipulbhai was connected with ATMA and visited KVK, Amreli under exposure visit of ATMA Amreli. After that day he was regularly in touch with KVK, Amreli scientist and got advice about their farming problem. He started organic farming and cultivated oil seed as well as pulse crop like groundnut, sunflower, pigeon pea and green gram.</p>
<p>Problems identified:</p>	<p>Shifted from cotton to other crop Shri. Vipulbhai faced a problem to fetch a good price of his produce.</p>
<p>Technological intervention in brief:</p>	<p>KVK, Amreli promoting a ARYA project in Krushnagadh village of Savarkundla and gives information regarding value addition of pulse and oil seed crop for better income in market as well as promoting high yielding variety of pulse and oilseed crop.</p>
<p>Efforts made by KVK:</p>	<p>Scientists of KVK, Amreli organized training and demonstration of mini dal mill in village. Vipulbhai started cultivating high yielding variety of pigeon pea GJP-1 and green gram GM-5 and now he makes dal of different pulses and marketed on the name of “Shree Vardhn”.KVK, Amreli also support him for organic certification and promotion of his product with organizing different Krushi Mela.</p>
<p>Output, outcome and impact:</p>	<p>After ARYA project two farmers from nearby village started value addition of pulse and villagers of krushnagadh also prepared dal and charge as decided by vipulbhai. Vipulbhai got average 20% more income with value addition of their produce. Overall, due to ARYA farmers started to cultivated pulses and oilseed crop. Many farmers who thought to migrate from village diverted in farming and doing value addition in pulses and oilseed crop for better price rate in market.</p>



Farmer with their value added product



Packaging of dal for retail market

5. DAMU District Agro-Meteorological Unit (DAMU)

Gramin Krishi Mausham Seva (GKMS):

A. KVK Jamnagar:

District Agromet Unit in KVK, Jamnagar

The District Agromet Unit is starting at KVK, JAU, Jamnagar since 2nd November 2018 but requirement of SMS and Observer joining at November 2019. Jamnagar is making Agro weather bulletin for all the 6 blocks viz. Dhrol, Jamnjodhpur, Jodiya, Kalavad, Jamnagar, Lalpur of the Jamnagar district.

Activity of DAMU at KVK Jamnagar

- Preparation of Agromet advisory bulletin Block and District wise
- Conducting Farmer awareness program (FAP)
- Maintaining Weather data record
- Dissemination of weather bulletin through different social media level

Weather Bulletin

Preparation of weather bulletin on the basis of medium range forecast provided by IMD supported by GFS model for the block wise weather bulletin. Preparation of advisory is in both language (English and Local language) twice in a week on Tuesday and Friday. There are several weather parameters forecast received from IMD i.e. Rainfall, Maximum temperature, Minimum temperature, Relative humidity (maximum and minimum), Cloud cover, Wind speed and direction. The bulletin preparation is for main crops of Jamnagar district i.e. Cotton, Groundnut, Wheat, Pigeon pea, Cumin, Chickpea, Castor, Sesame, Pearl millet etc

Number of Weather Bulletin prepare from Jan-Dec, 2022

District Name	No. of Bulletins
Jamnagar	102
Jamnagar District Block name	
Dhrol	102
Jamjodhpur	102
Jodiya	102
Jamnagar	102
Kalavad	102
Lalpur	102
Total No. of Block wise Weather Bulletin	612

District Name	No. of Bulletins
Devbhumi Dwarka District Block name	
Kalyanpur	102
Khambhaliya	102
Okhamandal	102
Total No. of Block wise Weather Bulletin	306

Dissemination of weather bulletin.

Individually these bulletins are send to farmers group by short message service (mKisan portal), and by social media by making farmers WhatsApp groups, Facebook.

Number of farmers

Particular	No. of farmers
Whats app Group-19	2904
KVK Facebook page	4100 followers
SMS (mKisan Portal)	70750
KVK Telegram Channel	140 Subscribers

Farmer Awareness Programmes

Climate based farming is drawing farmer near to precision agriculture. So, farmer awareness is very important to cover more number so that farmers can receive Agro advisories. Farmers can mitigate their crops itself against uneven weather patterns.




a) Farmer Awareness Program (FAP) organized by KVK, JAU, Jamnagar under DAMU Project

S. No.	Date	Location			Approx. No. of Farmers/ Participant
		Village	Block	District	
1	01-04-2022	Latipur	Dhrol	Jamnagar	170
2	01-11-2022	Navi Pipar	Lalpur	Jamnagar	69
3	01-12-2022	Dhandha	Jamnagar	Jamnagar	30
4	02-08-2022	KVK, Jamnagar	Jamnagar	Jamnagar	40
5	02-18-2022	Devbhumi Dwarka	Devbhumi Dwarka	Devbhumi Dwarka	125
6	02-22-2022	Vadtra	Jamkhambhadiya	Devbhumi Dwarka	151
7	03-01-2022	KVK, Jamnagar	Jamnagar	Jamnagar	40
8	03-11-2022	KVK, Jamnagar	Jamnagar	Jamnagar	38
9	03-13-2022	Jasapar	Kalavad	Jamnagar	129
10	03-24-2022	Devbhumi Dwarka	101	Devbhumi Dwarka	101
11	05-20-2022	Shedha Bhadthar	Jamkhambhadiya	Devbhumi Dwarka	10
12	06-13-2022	KVK, Jamnagar	Jamnagar	Jamnagar	7
13	07-22-2022	Ambardi Bhupat	Jamjodhpur	Jamnagar	14
14	07-29-2022	KVK, Jamnagar	Jamnagar	Jamnagar	99
15	09-01-2022	kharva	Dhrol	Jamnagar	17
16	09-28-2022	Sonvadiya	Jamjodhpur	Jamnagar	29
17	09-30-2022	KVK, Jamnagar	Jamnagar	Jamnagar	38
18	12-05-2022	Mota vadala	Kalavad	Jamnagar	63
Total					1170

b) Meghdoot Application Popularization Activity

S. No.	Date	Location			Approx. No. of Farmers/ Participant
		Village	Block	District	
1	02-18-2022	Ranjitpur	Kalyanpur	Devbhumi Dwarka	112
2	09-28-2022	Sonvadiya	Jamjodhpur	Jamnagar	29
Total					141

c) AWS Site Visit

S. No.	Date	Location			Approx. No. of Farmers/ Participant
		Village	Block	District	
1	03-14-2022	ATMA group farmers of Junagadh district			93
2	03-24-2022	ATMA group farmers of Khambhadiya Block of Devbhumi Dwarka district			75
3	04-28-2022	J.P. Modi school student			95
4	09-30-2022	AFPRO member of Jamnagar district			38
				Total	301

d) Field Visit

S. No.	Date	Location			Approx. No. of Farmers/ Participant
		Village	Block	District	
1	02-04-2022	Katda	Dhrol	Jamnagar	4
2	05-20-2022	Shedha Bhadthar	Jamkhambhadiya	Devbhumi Dwarka	3
3	07-22-2022	Ambardi Bhupat	Jamjodhpur	Jamnagar	3
4	12-05-2022	Mota vadala	Kalavad	Jamnagar	5
				Total	15



AWS site visit at KVK Jamnagar



FAP at Kolva, Devbhumi Dwarka



FAP at KVK Jamnagar



Meghdoot app. Popularization activity

B. KVK Amreli:

The District Agrometeorological Unit, KVK, JAU, Amreli is making Agro weather bulletin for all the 11 blocks viz. Amreli, Babra, Bagasara, Dhari, Jafrabad, Khambha, Lathi, Liliya, Kunkavav-vadiya, Rajula and Savarkundla of the Amreli district and also for the District itself.

Activity of DAMU at KVK Amreli

- Block and District wise Preparation of Agromet advisory bulletin
- Conducting Farmer awareness program (FAP)
- Maintaining Weather data record
- Dissemination of weather bulletin through different social media level

Weather Bulletin

Preparation of weather bulletin on the basis of medium range forecast provided by IMD supported by GFS model for the block wise weather bulletin. Preparation of advisory in both languages (English and Gujarati) twice in a week on every Tuesday and Friday. There are several weather parameter forecast received from IMD i.e. Rainfall, Maximum temperature, Minimum temperature, Relative humidity (maximum and minimum), Cloud cover, Wind speed and direction. The bulletin preparation is for main crops of Amreli district i.e. Cotton, Groundnut, Sesame, Wheat, Pigeon pea, Cumin, Chickpea, Castor, Sesame, Pearl millet etc. Number of Weather Bulletin prepare from January–December 2022

District Name	No. of Bulletins
Amreli	104
Block name	No. of Bulletins
Amreli	104
Babra	104
Bagasara	104
Dhari	104
Jafrabad	104
Khambha	104
KunkavavVadiya	104
Lathi	104
Liliya	104
Rajula	104
Savarkundla	104
Total No. of Block wise Weather Bulletin	1144

Dissemination of weather bulletin

Individually these bulletins are sent to farmers group by social media by making farmers Whats App groups, Telegram Facebook.

Number of farmers Connected

Particular	No. of farmers
WhatsApp Group- 17	3411
Telegram Group - 1	194 Subscribers
Facebook page	2800 followers

Detail of farmers connected through WhatsApp

Name of the Block	Total Village in Block	No. of WhatsApp Group Created by DAMU	No. of Farmers Covered	No. of Villages Covered	No. of Extension Workers at panchayat/village level
Amreli	71	4	951	62	10
Babra	57	2	459	51	7
Bagasara	34	2	392	31	4
Dhari	75	1	222	45	8
Jafrabad	42	1	70	21	5
Khambha	57	1	174	48	3
Kunkavav-Vadia	45	2	358	44	5
Lathi	49	1	137	30	8
Lilia	37	1	107	40	6
Rajula	72	1	165	27	4
Savarkundla	80	2	379	54	15
Total	619	18	3414	453	75

Farmer Awareness Programmes:

Climate based farming is drawing farmer near to precision agriculture. So, farmer awareness is very important to cover more number and receive Agro

advisories. Farmers can mitigate their crops itself against uneven weather patterns.

Farmer Awareness Program (FAP) organized by KVK, JAU, Amreli under DAMU Project during 2022-23

Sr. No.	FAP/ Farmers meet /Meghdoot Popularization activities	Date	Location		Approx. No. of Farmers attended the Program
			Village	Block	
No FAP organized due to unavailability of grant to fulfill the expenditure of FAP					

Automatic Weather Station

Installation of A.W.S. (Automatic Weather Station) has been completed in January 2021 and Working in March-2020.

Information about FPOs in the district:-

Sr. No.	Name of FPO	Working Area	No. of members
1	Dharati Raksha Agro Producer Co.	Bagasara	200
2	Jafrabad Farmer Producer Co.	Timbi	750
3	Avirat Farmer Producer Co.	Khambha	2100
4	Dhatarwadi Farmer Producer Co.	Rajula	700

Photographs of different activities carried out under DAMU Amreli



Farmers Awareness Programme by KVK Amreli



Farmers Awareness Programme by KVK Amreli



Farmers Visit of Automatic weather station



Information about DAMINI and MEGHDOOT applications

Photographs of different activities during 2022-23



Natural Farming Workshop at Porbandar



Award winning Progressive Farmer of Amreli dist. being facilitated by Hon'ble VC of JAU, Junagadh



Release of KVK Publications by Hon'ble Vice Chancellor, JAU, Junagadh



KVK Scientist Acivements



Hon'ble Vice Chancellor visit KVK-Pipalia New Bulding site



Hon'ble Vice Chancellor visit KVK- Khapat



SAC meeting at KVK-Khapat



Technology Week at KVK-Nana Kandhasar



SAC meeting KVK- Jamnagar



SAC Metting at KVK-Targhadia



FLD kit distribution by KVK-Jamanagar



Hon. VC of NAU Dr. Z. P. Patel visited at KVK-Targhadia



Kishan Mela by KVK-Jamnagar



Celebration of International women day at KVK-Jamnagar



**Hon'ble Board Members, UHS,
Bagalkot visit to Progressive farmer**



Off campus training by KVK-Khapat



Sponsored Training by KVK-Khapat



Field Day by KVK-Nana Kandhasar



FLD IPM Cotton by KVK-Morbi



FLD Home Science by KVK-Pipalia



Khedut shibir by KVK-Morbi



Field Day by KVK-Jamnagar



Field Day by KVK-Pipalia



FLD Animal Science by KVK-Pipalia



Field visit of CFLDs KVK-Targhadia



On campus training by KVK Pipalia



Animal Husbandry Training by KVK Pipalia



Input distribution by KVK-Targhadia



Poshan Abhiyan and Tree Plantation by KVK Targhadia



Kisan Mela by KVK Targhadia



Off campus training by KVK-Amreli



OFT calf mortality by KVK Pipalia