PROGRESS REPORT JANUARY -2021 to DECEMBER -2021

KRISHI VIGYAN KENDRA JUNAGDH AGRICULTURAL UNIVERSITY AMRELI

1. General information about the Krishi Vigyan Kendra:

The idea of establishment of Krishi Vigyan Kendra (KVK) - Farm Science Center was evolved by the recommendations of the education commission/review by the planning commission and inter-Ministerial Committee, and further recommendation by the committee headed by Dr. Mohan Singh Mehta appointed by ICAR in 1973.

The first KVK was established in 1974 at Pondicherry under the administrative control of the Tamilnadu Agriculture University, Coimbtore. The number of KVKs increased 290 during the V to IX Five Year Plan. The Hon'ble Prime Minister of India announced that by the end of 2007 there should be one KVK in each district of the country.

Total 50 KVKs established during Twelfth Plan. At present there are 686 KVKs in India which include 459 under State Agricultural University (SAU) /CAU-State/ Central Agricultural University (CAU), 67 under ICAR Institutes, 106 under Non-government Organization, 36 under State Governments, 3 under Public Sector Undertakings and the remaining 15 under Central University/Deemed University/Other Educational Institution. Gujarat state is having 30 KVKs of which, 07 KVKs are under Junagadh Agricultural University and Amreli is one of them, established in March, 2005.

The mandates of KVKs as under:

- (1) Organize short and long term vocational training courses in agricultural and allied Vocations for the farmers and rural youths with emphasis on "Learning by doing" or higher production on farms and generating self employment.
- (2) Organizing training to update the extension personnel with emerging advances in agricultural research on regular basis.
- (3) Organize front-line demonstrations on various crops to generate production data and feedback information.
- (4) Conducting "On farm testing" for identification of technologies in terms of location specific sustainable land use systems

1.1 Name and Address of KVK with phone, fax and e-mail

Address	Telephone		phone E-mail	
	Office	Fax		Address
Senior Scientist and Head				
Krishi Vigyan Kendra,	02792	02792		
Junagadh Agricultural University,	227122	227122	kvkamreli@gmail.com	www.jau.in
Keriya Road, Model farm,	22/122	22/122		
Amreli (Gujarat)-365601				

1.2 Name and Address of host organization with phone, fax and e-mail

Address	Telephone		E-mail	Web
	Office	Fax		Address
Junagadh Agricultural University,	0285	0285		
Agril. Campus, Motibaugh,	2672080-90	2672004		<u>www.jau.in</u>
Junagadh-362001 (Gujarat)	26/2080-90	2672653		

1.3 Name of the Senior Scientist & Head with phone & mobile no

Name	Telephone/Contact				
	Office	Mobile	E-mail		
Dr. N. S. Joshi Ph.D, Horticulture	02792 227122	9428191963	nileshjoshi2207@gmail.com		

1.4 Year of sanction:

Deputy Secretary, ICAR, New Delhi, Letter No. 13-16/2003/1, Dt. 7.12.2004

1.5 Total land with KVK: 20 Ha

Sr. no.	Item	Area (ha)
1	Under Building	3.50
2	Under Demonstration units	1.50
3	Under crops	12.50
4	Orchard / Agro-forestry	0.50
5	Others	2.0
	Total	20.00

1.6 Infrastructure development:

		Source	Stage			
S.	S. Name of building		Complete			
N.			Completion	Plinth area	Expenditure	
		funding	Date	(Sq. m)	(Rs.)	
1	Administrative Building	ICAR	2008	500	3190000	
2	Farmers Hostel	ICAR	2008	305	2088000	

3	Staff Quarters(6)	ICAR	2008	400	3204000
4	Farm Wall	ICAR	2008	-	-
5	RWH system	ICAR	2008	ı	960000
6	Threshing yard	ICAR	2009	-	-
7	Godown and processing shed	RKVY	2009	70.62	500000
8	Poly House	RKVY	2010	320	281600
9	Net House	RKVY	2010	150	64450
10	Training hall	RKVY	2010	190.99	1396300
11	Pilot scale Process plant	RKVY	2010	197.31	1536400
12	Implement shed	RKVY	2010	77.33	286300
13	Farm Wall	ICAR	2016	-	497475
14	Goat Shed	ICAR	2016	14.05	69760
15	Vermi-compost unit	ICAR	2016	45	73640
16	Administrative building (Renovation)	ICAR	2017	-	300000

1.7 Basic information of agro climatic zone of operational district - Amreli

The district of Amreli falls in North Saurashtra Agro climatic Zone VI. The average rain fall is 580 mm with shallow and medium black as well as saline soil. The district covers geographical area of 736.5 thousand ha. In which cultivable area is 583.8 thousand ha. The major crops are Groundnut, Cotton, Wheat, Sesame, and Bajra (Pearl millet). The Horticultural crops are Mango, Sapota, Citrus, Banana fruit etc. and other crops are Onion, Brinjal, Garlic and Cumin etc.

The main cultivation depends on rainfall however about 18 % area is under irrigation which generally done by wells, bores and canals but this is instability. The average productivity of the district of most of the crop is less than state average. Area under horticultural crop is very poor and high infertility rates and low productivity of milk animal.

1	Total geographical area	7,36,500 ha
2	Total cultivable area	5,83,800 ha
3	Total area under forest	44,200 ha
4	Total irrigated area	110,900 ha
5	Average annual rainfall	580 mm
6	Soil type	Medium black
7	Total no. of villages	615 (8 Urban areas)
9	Total population	15,14,190 (Rural: 11,27,555 Urban: 3,86,635)
10	(a) Male	7,71,049
	(b) Female	7,43,141
11	Literacy percentage	74.25 %
	(a) Male	82.21 %

	(b) Female	66.09 %						
12	No. of Talukas	11						
13	Major crop grown	Cereals: Wheat, Sorghum an	Cereals: Wheat, Sorghum and Pearl millet					
		Pulses: Green gram, Black gr	am	, chickpea				
		Oilseeds: Groundnut, Sesame, Castor, Mustard,						
		Commercial: Cotton						
14	Live stocks	Total	:	809215				
	Rank 16	Cows crossbreed (In milk)	:	2900 (8.659 kg/day)				
		Cows crossbreed (dry)	:	500				
		Cows crossbreed (milch)	:	3400 (7.464 kg/day)				
	Rank 5	Cows indigenous (In milk)	:	85700 (4.747 kg/day)				
		Cows indigenous (dry)	:	35600				
		Cows indigenous (milch)	:	121300 (3.353 kg/day)				
	Rank 9	Buffaloes (In milk)	:	104700 (5.229 kg/day)				
		Buffaloes (dry)	:	41500				
		Buffaloes (Milch)	:	146200 (3.745 kg/day)				
	Rank 13	Goat	:	163500 (0.535 kg/day)				
		Sheep	:	130800				
		Poultry	:	8200				

1.7.1 Details of Milk Production

Livestock	Milk Production '000 Tonnes	State share (in %)
Crossbred cows	9.22	Rank 20 (0.28 %)
Indigenous cow	148.43	Rank 10 (4.82%)
Buffalo	199.79	Rank 18 (2.88 %)
Goats	11.33	Rank 9 (3.60 %)
Total	368.77	1010 Tonnes/day
		Rank 18 (2.72 %)

Source: 35th issue on estimates of major livestock products for the year 2017-18, Gujarat state.

1.7.2 Area, Production and Productivity of major crops cultivated in the district

S. No.	Crop	Area (ha)	Production (M.T.)	Productivity (Kg/ha)
1	1 Green gram 2702 1372		1372	5.07
2	Tur	742	912	12.28
3	Wheat	7311	22734	31.09
4	Gram	1736	2394	13.79
5	Groundnut	101505	219818	21.65
6	Sesamum	7390	3519	4.76

7	Castor	1283	2235	17.42
8	Irrigated Cotton (Lint)	253961	811755 (bales)	543.38 (lint)
9	UnIrrigated Cotton (Lint)	124796	248417 (bales)	338.40 (lint)
10	Cumin	1234	436	3.53
11	Onion	4328	128928	297.89
12	Garlic	1277	5261	41.19
13	Bajra	2706	6399	23.64
14	Udad	1720	1028	5.97
15	Math	130	62	4.76
16	Soybean	357	275	7.69
17	Sugarcane	57	3928	689.12

Source: District wise Area, Production and Yield of Important Food & Non-food crops in Gujarat State

1.7.3 Area and Production Horticultural crops cultivated in the district

S. No.	Crop	Area (ha)	Production (M.T.)	S. No.	Crop	Area (ha)	Production (M.T.)
1	Mango	6965	61918.85	16	Tomato	1091	26642.22
2	Chiku	552	4692	17	Cauliflower	167	2179.35
3	Citrus	719	8016.85	18	Cluster bean	326	2624.30
4	Ber	179	1410.52	19	Cow Pea	532	5910.52
5	Banana	227	8773.55	20	Cucurbits	1193	14435.30
6	Guavava	279	2561.22	21	Cumin	900	765
7	Pomegranate	109	1509.65	22	Chilli-Dry	227	424.49
8	Papaya	46	1955.46	23	Garlic	800	6016
9	Custard Apple	35	31.010	24	Coriander	1300	1664
10	Aonla	56	560.56	25	Ginger	03	53
11	Coconut	151	1283.50	26	Turmeric	13	243.10
12	Onion	3500	87325	27	Fenugreek	108	177.12
13	Brinjal	644	12042.80	28	Ajwain	491	456.63
14	Cabbage	539	10860.85	29	Rose	23	174.80
15	0kra	486	3912.30	30	Marigold	07	58.31

Source: Director of Horticulture, Estimate of the horticulture crops

1.8 Staff position in K.V.K., J.A.U., Amreli (as on 31st January, 2021)

Sr. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Permanent /Temporary	Category (SC/ST/OBC/ Others)
1	Senior Scientist & Head	Dr. N. S. Joshi	Senior Scientist and Head	Horticulture	15600-39100 G.P. 8000	24170	24/03/2015	Permanent	General
2	Subject Matter Specialist	Er. P. S. Jayswal	Subject Matter Specialist	Agriculture Engineering	15600-39100 G.P. 6000	24140	10/09/2012	Permanent	General
3	Subject Matter Specialist	Dr. N. Tiwari	Subject Matter Specialist	Home Science	15600-39100 G.P. 6000	19050	01/04/2013	Permanent	General
4	Subject Matter Specialist	Mr. P. J. Prajapati	Subject Matter Specialist	Crop Production	15600-39100 G.P. 6000	16920	31/03/2015	Permanent	OBC
5	Subject Matter Specialist	Mr. V. S.Parmar	Subject Matter Specialist	Extension Education	15600-39100 G.P. 6000	16920	12/05/2016	Permanent	ST
6	Subject Matter Specialist	Mr. N. M. Kachhadiya	Subject Matter Specialist	Plant Protection	15600-39100 G.P. 6000	-	-	Permanent	General
7	Subject Matter Specialist	Vacant	Subject Matter Specialist	Animal Science	-	-	-	-	-
8	Programme Assistant	Ms. K. K Gadhiya	Programme Assistant	Plant pathology	09300- 34800	-	30/07/2018	Permanent	General
9	Computer Programmer	Shri S .N. Joshi	Computer Programmer	-	39900- 126600	44900	01/07/2010	Permanent	General
10	Farm Manager	Mr. S. G Baria	Farm Manager	Agriculture	09300- 34800	-	30/07/2018	Permanent	ST
11	Accountant	Shri H. J. Ravaliya	Accountant	-	39900- 126600	44900	01/12/2011	Permanent	SC
12	Stenographer	Vacant	Stenographer	-	-	-	-	-	-
13	Driver	Out sourcing	Driver	-	-	-	-	-	-
14	Driver	Out sourcing	Driver	-	-	-	-	-	-
15	Supporting staff	Out sourcing	Supporting staff	-		-	-		
16	Supporting staff	Vacant	Supporting staff	-	-	-	-	-	-

2.0 Details of 16^{th} SAC meeting conducted on dt. 02/02/2021

The Fourteenth Scientific Advisory Committee meeting of Krishi Vigyan Kendra Junagadh Agricultural University, Amreli was held at Seminar Hall, K.V.K., J.A.U., Amreli on 02^{th} February, 2021. Committee made the following recommendations after active interaction.

Sr. No.	Date	Name and Designation of Participants	Salient Recommendations	Action taken
1.	02/02/2021	Dr. V. P. Chovatia I/c Hon'ble Vice	1. To Proceed for GI tag of "Babarkot no Bajro" (Pearl millet).	Suggestion accepted and application is prepared. Rs. 90,000/- required for filling application.
		Chancellor, Junagadh Agricultural University, Junagadh	2. To register more varieties under Protection of Plant Varieties and Farmers' Rights Act.	Suggestion accepted and "Badhada Na Ringna" sample was send for check. Rs. 1,50,000/- required for seed sample check process.
			3. To make register of uncertain climatic condition under DAMU project.	Suggestion accepted and Register of uncertain climatic condition under DAMU project is being maintain.
			4. To arrange training on market intelligence.	Suggestion accepted and Total 2 training programme with no. of participants 68 were organized.
			5. To arrange bakery training programme for male farmers.	Suggestion accepted and It will be schedule to arrange in March month.
			6. To arrange soil heath training.	Suggestion accepted and training were conducted during 10/08/2021, 10/2/2021, 27/07/2021, 22/09/21 with total no. of participants -306
			7. To increase number of popular articles.	Suggestion accepted and total 05 Article were published in different magazine related to agriculture
			8. To convert Drudgery reduction OFT of Home Science subject to FLD.	Suggestion accepted OFT of Home Science subject on Drudgery reduction is converted in to FLD
			9. Accountability of FLDs.	Suggestion accepted and accountability of FLDs was done

	02/02/2021	Dr. H. M. Gajipara, Director of Extension Education, JAU, Junagadh	 To arrange training on IFS. To maintain FLD observations register. 	Suggestion accepted and 4 training programme on IFS were Organized Dated-30/11/2021, 1-2 and 18/12/2021 with total no. of participants 129. Suggestion accepted and FLD observations register was properly maintained
			3. Documentation of success stories.	Suggestion accepted and 110 success story were prepared and documented by all the SMS of KVK, Amreli
			4. To do pre and post evaluation of training.	Suggestion accepted and pre and post evaluation of training was done after training
			5. To upload all activities of KVK in website and KVK portal.	Suggestion accepted and all activities of KVK were upload regularly in website and KVK portal.
3.	02/02/2021	Dr. V. N Gohil, Research Scientist, Agricultural Research station, JAU, Amreli	1. To take Sesame variety of GT-6 in intercropping	Suggestion accepted and we demanded GT-6 variety for intercropping but mega seed does not allow GT-6 for FLD

3.0 Adopted village: Details of Operational area /Villages

Sr. No.	Name of village	Name of Taluka	Name of District	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Hathigadh	Liliya	Amreli	Groundnut,	Heavy	*IPM and INM
2	Jasvantgadh	Amreli	Amreli	Cotton,	infestation of	in major crops
3	Randhiya	Amreli	Amreli	Sesamum,	sucking pest	of this area,
4	Ingorala	Khambha	Amreli	Wheat,	in cotton,	*Motivate the
5	Devgam	Kukavav	Amreli	Cumin,	Sesame leaf	farmers for arid
6	Rikadiya	Amreli	Amreli	Chickpea,	blight, Stem	Horticultural
7	Kuvargadh	Babra	Amreli	Garlic,	rot disease in	Crops.
8	Ramgadh	Savakundla	Amreli	Onion,	Groundnut,	*To create the
9	Dhajadi	Savakundla	Amreli	Mango,	Mango	awareness for
10	Jambarvada	Babra	Amreli	lemon	Malformation,	grading,
11	Khadkhad	Kukavav	Amreli	Enterprises	Less area	processing
12	Rafala	Bagasra	Amreli	are dairy	under	and marketing
13	Sukhpar	Babara	Amreli	business,	Horticultural	(value addition)
14	Fachariya	Dhari	Amreli	vermi	crops.	
15	Sekhpipariya	Lathi	Amreli	composting,		

3.1 Priority thrust areas:

Sr. No.	Crop/ Enterprise	Thrust area
1.	Cotton, Groundnut, Castor, Cumin,	Integrated Crop Management in major
	Wheat, vegetables, fruits, etc.	crops
2.	Farm waste	Recycling of farm waste through
		composting, vermin compost, green
		manuring, etc.
3.	Micro irrigation	Efficient use of water by micro irrigation
		system, water harvesting structure, and
		water conservation techniques
4.	Soil	Reclamation of saline & alkaline soils
5.	Farm Women	Farm women empowerment by training in
		value addition, handicrafts, and small scale
		enterprises
6.	Horticulture	Promotion of arid horticulture fruit crops
7.	Improved Implements	Popularization of the mechanized
		technological know how

4. Summary of Progress Report

Details of the target and achievements of mandatory activities by KVK (January 2021 to December 2021)

	0	FT		FLD					
		1			2				
Number of OFTs Number of Farmers		Number of FLDs (Crops/Com	iponent)	Number of Farmers					
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement		
7	7	27	27	26 (FLDs under KVK, ATIC, NFSM, NMOOP)	26	670	670		

	(Including	Trainings sponsored, voc	Extension Activities					
		3					4	
Nui	nber of Cour	ses	Number of participants		Number	of Activities	Number of	participants
Clientele	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
Farmers	63	107	2515	4465				
Rural youth	4	9	125	331	58	1358	500	8814
Ext. Functionaries	2	2	50	90	58			
Other Scheme Trainings (ATIC, NICRA, NFSM, NMOOP)	ATIC-24 NMOOP-9 NFSM-9 ARYA-11	ATIC-24 NMOOP-9 NFSM-9 ARYA-11	ATIC- 1114 NMOOP-402 NFSM- 277 ARYA-598	ATIC- 1114 NMOOP- 402 NFSM- 277 ARYA-598	ATIC -28 NMOOP-7 NFSM-21	ATIC -28 NMOOP-7 NFSM-21	ATIC -342 NMOOP-135 NFSM-441	ATIC -342 NMOOP-135 NFSM-441

Seed Prod	uction (Qt.)	Planting material (Nos.)		
	5	6		
Target	Achievement	Target	Achievement	
-	152.25	1500	12160	

5. ON FARM TRIAL

A. Details of each On Farm Trial to be furnished in the following format

OFT - 1: Agronomy (Completed)

1) Title of technology: Effect of zinc on growth and yield of wheat

2) Problem Diagnosed/Defined: Farmers do not use Zinc Detail of technologies selected for assessment/refinement:

(1) Crop : Wheat

(2) Season/Year : Rabi 2019-20 to Rabi 2020-21

T1: (Farmers' practices)	1. Use only DAP and Urea in various dose (Farmers Practices)
T2 : (Recommended Practice)	2.120-60-60 NPK kg/ha (Recommended Practices)
T3: (Intervention)	3.120-60-60 NPK kg/ha+ZnSO ₄ @ 20 kg/ha as basal dose and foliar spray of ZnSO ₄ @
	0.5% at heading and milking stage (Intervention)

(3) Number of replication : 05

(4) Source of technology : Main Dry Farming Research Station, JAU, Targhadia

(5) Production system thematic area : Irrigated

(6) Thematic area : Micro nutrient deficiency

(7) Cost : 3200

(8) Indicator/parameter : BC ratio, No. of tiller plants

Result:

Crop/	Farming	Problem	Title	No. of	Technology	Yield (q/ha)	Results of	Feedback from
enterprise	situation	Diagnosed	of OFT	trials*	Assessed	rieiu (q/iia)	assessment	the farmer
			Effect of zinc		T1	44.03	As compare to	Increases
Wheat	Rabi- 2020-21	Farmers do	on growth and yield of wheat	5	Т2	47.43	treatments T1 and T2 production of	production due to number of plants per area is
, i					Т3	51.08		more than treatment T1

Technology Assessed	Production per unit q/ha	Net Return (Profit) in Rs./ ha	BC Ratio
T1: Farmers' practices): 120 X 45-60 cm (18519-13888 plants/ha)	44.03	79223.5	3.76
T2 :Recommended Practice): 90 X 30 cm (37037 plants/ha) (Var. GTHH-49 (BT)	47.43	99288.64	4.73
T3: T2 + De-topping at 75 DAS (Var. GTHH-49 (bt))	51.08	111424.68	4.90

OFT -2: Agronomy (Ongoing)

1) Title of technology: High Density Planting in Cotton

2) Problem Diagnosed/Defined: Farmers do not adopt closer planting, there for get low cotton yield due to less soil moisture and incidence of pest and disease.

Detail of technologies selected for assessment/refinement

(1) Crop : Cotton

(2) Season/Year : Kharif 2020-21 to Kharif 2022-23

T1: (Farmers' practices)	120 X 45-60 cm (18519-13888 plants/ha)
T2: (Recommended Practice)	90 X 30 cm (37037 plants/ha) (Var. GTHH-49 (bt)
T3: (Intervention)	T2 + De-topping at 75 DAS (Var. GTHH-49 (bt))

(3) Number of replication : 03

(4) Source of technology : Cotton Research Station, JAU, Junagadh

(5) Production system thematic area : Rainfed Farming

(6) Thematic area : Closure Planting method

(7) Cost : Rs 4800

(8) Indicator/parameter : BC ratio, Pest Observation, Crop duration

Result:

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Production per unit q/ha	Results of assessment	Feedback from the farmer
	To increase	To increase		T1	17.5	As compare to	High density	
Cotton	Rainfed	the yield by High	High Density Planting in	3	T2	20.5	treatments T1 and T2 production of cotton	with de-
	Cotton Rainfed high density planting	cotton	0		24.5	higher in treatment T3	topping gave better yield	

Technology Assessed	Production per unit	Net Return (Profit) in Rs./ ha	BC Ratio
T1: Farmers' practices): 120 X 45-60 cm (18519-13888 plants/ha)	17.5 q/ha	114350	4.66
T2 :Recommended Practice): 90 X 30 cm (37037 plants/ha) (Var. GTHH-49 (BT)	20.5 q/ha	130740	4.93
T3: T2 + De-topping at 75 DAS (Var. GTHH-49 (bt))	24.5 q/ha	159160	5.32

OFT - 3: Plant Protection (Ongoing)

Title: Management of leaf Webber in Sesame

Problem Diagnosed / Defined: Injudicious use of pesticides Details of technologies selected for assessment/refinement:

(1) Crop : Sesame

(2) Season/ Year : Kharif -2019-20 to Kharif -2021-22

(3) Spacing : 120 x 45 cm

T_1	Farmer practices	Farmers' practices: High dose and Use of conventional Chemical pesticides (Farmers Practices-
		Monocrotophos 50 ml, fenvalrate 20 to 25 ml and cypermathrin 20 to 25 ml/15 lit. of water)
T ₂	Assessment/ refined Practices	Spray of <i>Beuveria bassiana</i> 75gm /10 lit + emamectin benzoate 5 SG 0.0035% (4g/10 lit.
		water) and 2 nd spray at 15 days after 1 st spray)

(4) Number of replication : 03

(5) Source of technology : ARS, Amreli

(6) Production system thematic area : Rainfed Farming

(7) Thematic area : IPM (8) Total Cost : Rs 4500

(9) Indicator : 1. Record No. of Larva per Plant /1mt. row length 2. Yield data

Result:

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment	the	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Sesame	Rainfed	Injudicious	Management	3	T1: Farmers' practices:	Yield (q/ha)	3.4	As compare	Increase in
		use of	of leaf		High dose and Use of	Tiela (q/ lia)	5.1	to T1	production in
		pesticides	Webber in		conventional Chemical	No. of Larva		treatment	treatment T2
			Sesame		pesticides (Farmers	per Plant		production	because of
					Practices-	/1mt. row	2.65	of higher in	judicious use
					Monocrotophos 50 ml,	length		treatment T2	of
					fenvalrate 20 to 25 ml	before spray		(But 60-	recommended
					and cypermathrin 20 to	No. of Larva		70%	dose of
					25 ml/ 15 lit. of water)	per Plant		reduction	pesticides
						/1mt. row	1.70	in	compare to
						length after		production	treatment T1
						spray		due to	(But 80-
					T2	Yield (q/ha)	4.4	heavy	90%
					Spray of Beuveria	Tield (q/ila)	7.7	Rainfall)	reduction in
					bassiana 75gm /10 lit	No. of Larva			production
					+ emamectin benzoate 5	per Plant			due to
					SG 0.0035% (4g/10 lit.	/1mt. row	2.55		heavy
					water) and 2nd spray at	length			Rainfall)
						before spray			

	15 days after 1st spray)	No. of Larva		
		per Plant		
		/1mt. row	0.30	
		length after		
		spray		

Technology Assessed	Production per unit	Net Return (Profit) in Rs. / ha	BC Ratio
11	12	13	14
T1:Farmers' practices: High dose and Use of conventional Chemical pesticides (Farmers Practices- Monocrotophos 50 ml, fenvalrate 20 to 25 ml and cypermathrin 20 to 25 ml/15 lit. of water) pesticides	3.4 q/ha	9912.1	1.5 9
T2: Spray of <i>Beuveria bassiana</i> 75gm /10 lit + emamectin benzoate 5 SG 0.0035% (4g/10 lit. water) and 2 nd spray at 15 days after 1 st spray)	4.4 q/ha	17769.6	2.0 9

OFT -4: Plant Protection (Completed)

Title: Management of white grub in Groundnut

Problem Diagnosed / Defined: No seed treatment & Soil application of bio pesticides

Details of technologies selected for assessment/refinement:

(1)Crop : Groundnut

(2) Season/ Year : Kharif -2019-20 to Kharif -2021-22

(3) Spacing $: 45 \times 10$

T_1	Farmer practices	Farmers' practices: No Seed treatment and application of chlorpyriphos 4 lit/ha with irrigation water)
T ₂	Assessment/refined Practices	Seed treatment with Chlorpyrifos 20 EC @ 25 ml/kg seed and Soil application of Metarhizium anisopliae 1.15 WP @ 5 kg/ha along with Castor cake (300 kg/ha) before sowing and drenching in plant row after 30 days of germination

(4) Number of replication : 03

(5) Source of technology : Dept. of Entomology, COA, JAU, Junagadh

(6) Production system thematic area: Rainfed Farming

(7) Thematic area : IPM (8) Total Cost : Rs. 6000

(9) Indicator : 1. Record No. of Larva per Plant /1mt. row length 2. Yield data

Result:

Crop/ enterprise	situation	Problem Diagnosed	Title of OFT	No. of trials*		assessment	the	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Groundnut		No seed treatment & Soil application of bio pesticides	Management of white grub in Groundnut	3	T1: Farmers' practices: No Seed treatment and application of chlorpyriphos 4 lit/ha with irrigation water) T2: Seed treatment with Chlorpyrifos 20 EC	No. of Larva per Plant /1mt. row length before spray No. of Larva per Plant /1mt. row length after spray Yield (q/ha)	2.45 0.65	As compare to T1 treatment production higher in treatment T2	-
					@ 25 ml/kg seed and Soil application of Metarhizium anisopliae 1.15 WP @ 5 kg/ha along with Castor cake (300 kg/ha) before sowing and drenching in plant row after 30 days of germination	length before spray No. of Larva per Plant	0.20		

Technology Assessed	Production per unit	Net Return (Profit) in Rs. / ha	BC Ratio
11	12	13	14
T1® Farmers' practices): No Seed treatment and application of chlorpyriphos 4 lit/ha with irrigation water)	24.3 q/ha	91654.0	3.53
T2 ©Recommended Practice): Seed treatment with Chlorpyrifos 20 EC @ 25 ml/kg seed and Soil application of Metarhizium anisopliae 1.15 WP @ 5 kg/ha along with Castor cake (300 kg/ha) before sowing and drenching in plant row after 30 days of germination	27.1 q/ha	108130.3	4.13

OFT -5: Agriculture Engineering (Ongoing)

a Title : Effect of plastic mulch on yield of watermelon.

B Problem Diagnose : Low yield potential of watermelon.

C Treatments

T1- Farmers' practice : No mulch

T2-Recommended Technology : Silver Black Plastic Mulch (20 micron) under drip irrigation system

T3-Technology assessed or Refined : Wheat straw mulch

d Number of replication : 03

e Source of Technology : Dept. of Renewable Energy and Rural Engg., CAET, JAU, Junagadh

f Thematic area : Plastic in Agriculture

g Critical Input : $20\mu m$ silver black plastic mulch

h Unit Cost : 3000 i Total Cost : Rs. 9000 j Duration of project : 3 year

l Indicator/Parameter : Yield, Per fruit weight, C:B ratio

Result:

Crop/ enterprise	Farming situation	Problem Diagnosed		No. of trials*	Technology Assessed	Parameters of assessment	the	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Watermelon	Irrigated	Low yield potential of	Effect of plastic mulch	l	T1 (Farmers' practices): No mulch	Yield (q/ha)	213.2	Treatment T2 was	Mulch treatment
		watermelon	on yield of watermelon			Per fruit weight	2.57	found better than T1 and T3.	was found beneficial for insect
					T2 (Recommended Practice): Silver Black	Yield (q/ha)	345.1	13.	reduction and fruit
					Plastic Mulch (20 micron) under drip irrigation system	Per fruit weight	3.61		disease reduction
					T3 (Technology assessed or Refined):	Yield (q/ha)	220.7		
					Wheat straw mulch	Per fruit weight	2.66		

Technology Assessed	Production per unit q/ha	Net Return (Profit) in Rs. / ha	BC Ratio
11	12	13	14
T1 (Farmers' practices): No mulch	213.2	17694	1.39
T2 (Recommended Practice): Silver Black Plastic Mulch (20 micron)	2.7		
under drip irrigation system	345.1	108205	2.68
T3 (Technology assessed or Refined): Wheat straw mulch	220.7	31540	1.63

OFT -6: Agriculture Engineering (Ongoing)

a Title : Effect of Packaging material on seed quality of groundnut seeds.

B Problem Diagnose : Farmers do not store groundnut seed properly.

C Treatments

T1- Farmers' practice : Loose heap storage (farmer practices)

T2-Recommended Technology : Use of Purdue Improved Crop Storage (PICS) bags for storage

d Number of replication : 05

e Source of Technology : JAU Recommendation and interaction with scientists

g Thematic area : Storage techniques

h Critical Input : 1 PICS bag

Indicator/Parameter : Insect Infestation, C:B ratio

Result: Results awaited.

OFT 7: Home Science (Completed)

1. Title of Technology Assessed: Preservation techniques of different pulses with organic methods

2. Problem Definition: Lack of knowledge

Details of technologies selected for assessment/refinement:

3. Details of technologies selected for assessment
Crop: Pigeon pea and green gram
Season/ Year: Kharif -2021 to Kharif -23

Spacing : -

T1	Farmer practices	T4.Without any treatment
T2	Recommended Technology	T3. Use of plastic bag
Т3		T2. Use of Castor oil
T4		T1. Use of Neem leaves

- 4. Source of technology: IRRI-2011
- 5. Production system and thematic area: Storage Techniques
- 6. Performance of the Technology with performance indicators: Infestation percent
- 7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques:-
- 8. Final recommendation for micro level situation: -
- 9. Constraints identified and feedback for research:-
- 10. Process of farmers participation and their reaction: T2 was found more suitable for storage of grains

Result:

Crop/ enterpris e	Farming situation		Title of OFT	No. of trials	Technology Assessed	Parameters of assessment		Data on the parameter	Results of assessmen t	Feedback from the farmer
1	2	3	4	5	6	7	7	8	9	10
					T1	Pigeon pea	Infestation	11		
			Preservation		11	Green gram	percent	9.1	T2 was	Quality of
			techniques of		Т2	Pigeon pea	Infestation	2.1	found	stored grain
Farm		Lack of	different		12	Green gram	percent	1.95	more	in T2 was
woman	Irrigated	knowledge	pulses with	5	Т3	Pigeon pea	Infestation	8.74	suitable for	found finest as compare
			organic		13	Green gram	percent	6.8	storage of	to other
			methods		Τ./	Pigeon pea	Infestation	18.6	grains	treatments
					T4	Green gram	percent	23.1		

6. Training Achievements (January 2021- December 2021):

6.1 On Campus Trainings

Thematic area	NC				Par	ticipan	ts			
	No. of		Others			SC/ST	•	Gr	and Tot	tal
	courses	M	F	Total	M	F	Total	M	F	Total
(A) Farmers & Farm Women										
I Horticulture										
Nursery raising	1	20	00	20	06	00	06	26	00	26
Layout and Management of Orchards	1	42	10	52	04	03	07	45	14	59
Total	2	62	10	72	10	3	13	71	14	85
II Home Science										
Household food security by kitchen gardening and nutrition gardening	01	00	46	46	00	10	10	00	56	56
Design and development of low/minimum cost diet	01	00	25	25	00	00	00	00	25	25
Value addition	03	00	74	74	00	00	00	00	74	74
Location specific drudgery reduction technologies	01	00	52	52	00	08	08	00	60	60
Rural Crafts	00	00	00	00	00	00	00	00	00	00
Women and child care	02	00	43	43	00	00	00	00	43	43
Income generation activities for empowerment of rural	04	00	112	112	00	00	00	00	112	112
women										
Total	12	0	352	352	0	18	18	0	370	370
III Agril. Engineering										
Farm Machinery and its maintenance	2	27	33	60	7	5	12	34	38	72
Installation and maintenance of micro irrigation systems	1	40	18	58	0	2	2	40	20	60
Use of Plastics in farming practices	1	0	28	28	0	0	0	0	28	28
Small scale processing and value addition	1	0	26	26	0	0	0	0	26	26
Post Harvest Technology	1	0	2	2	0	18	18	0	20	20
Groundwater recharge	1	40	18	58	0	2	2	40	20	60
Soil & Water Conservation	1	25	0	25	0	0	0	25	0	25
Green house & net house	2	61	31	92	3	0	3	64	31	95
Drainage importance	1	0	29	29	0	0	0	0	29	29

17th SAC Meeting, 2022

Total	11	193	185	378	10	27	37	203	212	415
IV Plant Protection										
Integrated Pest Management	1	26	0	26	3	0	3	29	0	29
Integrated Disease Management	1	22	0	22	0	0	0	22	0	22
Bio-control of pests and diseases	1	50	11	61	0	0	0	50	11	61
Production of bio control agents and bio pesticides	1	55	0	55	0	0	0	55	0	55
Total	4	153	11	164	3	0	3	156	11	167
V Crop Production										
Organic farming	2	54	0	54	0	0	0	54	0	54
Balance use of fertilizers	1	21	0	21	0	0	0	21	0	21
Integrated nutrient management	2	120	20	140	12	0	12	132	20	152
Balance use of fertilizers	1	25	5	30	0	0	0	25	5	30
Soil and Water Testing	1	30	8	38	5	0	5	35	8	43
Total	7	250	33	283	17	0	17	267	33	300
VI Extension										
Entrepreneurial development of farmers/youths	2	50	0	50	5	0	5	55	0	55
Total	2	50	0	50	5	0	5	55	0	55
B) Rural Youth										
Rainwater harvesting	2	60	4	64	8	3	11	68	7	75
Value addition	4	0	134	134	0	8	8	0	142	142
Integrated farming	1	29	5	34	0	0	0	29	5	34
TOTAL	7	89	143	232	8	11	19	97	154	251
C) Extension functionary										
Micro Irrigation System	1	40	18	58	0	2	2	40	20	60
Rainwater harvesting tech.	1	28	0	28	2	0	2	30	0	30
TOTAL	2	68	18	86	2	2	4	70	20	90
GRAND TOTAL	47	865	752	1617	55	61	116	919	814	1733

6.2 Off Campus Trainings

Thematic area	No of				Part	icipant	S			
	No. of		Others	}		SC/ST		Gra	and To	tal
	courses	M	F	Total	M	F	Total	M	F	Total
(A) Farmers & Farm Women										
I Horticulture										
Nursery raising	1	20	00	20	06	00	06	26	00	26
Layout and Management of Orchards	1	42	10	52	04	03	07	45	14	59
Total	2	62	10	72	10	3	13	71	14	85
II Home Science										
Household food security by kitchen gardening and	02	00	56	56	00	03	03	00	59	59
nutrition gardening										
Design and development of low/minimum cost diet	01	00	25	25	00	00	00	00	25	25
Minimization of nutrient loss in processing	01	06	21	27	00	00	00	06	21	27
Gender mainstreaming through SHGs	02	00	71	71	00	10	10	00	81	81
Value addition	01	00	20	20	00	02	02	00	22	22
Women empowerment	01	00	42	42	00	06	06	00	48	48
Location specific drudgery reduction technologies	02	00	40	40	09	22	31	09	62	71
Women and child care	02	00	43	43	00	00	00	00	43	43
Others (pl specify)	02	00	70	70	00	04	04	00	74	74
Total	14	6	388	394	9	47	56	15	435	450
III Agril. Engineering										
Farm Machinery and its maintenance	1 1	0	51	51	0	0	0	0	51	51
Installation and maintenance of micro irrigation										
systems	2	14	61	75	0	0	0	14	61	75
Soil & water conservation	2	4	67	71	0	0	0	4	67	71
Repair and maintenance of farm mach. & impl.	1	2	23	25	0	0	0	2	23	25
Small scale processing and value addition	1	0	22	22	0	0	0	0	22	22
Protected cultivation technology	6	110	59	169	9	18	27	119	77	196
Rainwater harvesting, drainage system	3	6	91	97	0	0	0	6	91	97
Natural Farming and Engg.	1	0	25	25	0	0	0	0	25	25

Total	17	118	220	338	9	18	27	127	238	365
IV Plant Protection										
Integrated Pest Management	1	29	18	47	0	0	0	29	18	47
Integrated Disease Management	1	55	0	55	0	0	0	55	0	55
Bio-control of pests and diseases	1	57	0	57	0	0	0	57	0	57
Production of bio control agents and bio pesticides	1	70	0	70	0	0	0	70	0	70
Cow based rakrutic shibir on pest management	2	173	0	173	0	0	0	173	0	173
Pest and disease management in oilseed crops	3	150	0	150	0	0	0	150	0	150
Total	9	534	18	552	0	0	0	534	18	552
V Crop Production										
Organic farming	3	252	89	341	0	0	0	252	89	341
Soil and Water Testing	1	70	15	85	0	0	0	70	15	85
Integrated nutrient management	2	65	25	90	0	0	0	65	25	90
Total	6	387	129	516	0	0	0	387	129	516
VI Extension										
Organic farming	4	161	6	167	0	0	0	161	6	167
Leadership development	1	58	0	58	0	0	0	58	0	58
Total	5	219	6	225	0	0	0	219	6	225
B) Rural Youth										
Value addition	2	00	67	67	00	13	13	00	80	80
TOTAL	2	00	67	67	00	13	13	00	80	80
GRAND TOTAL	55	1326	838	2164	28	81	109	1353	920	227 3

6.3 SUMMARY OF TRAINING:

6.3.1 Training Achievement (On campus):

Sr.				No. of Participants	
No.	Subject	No. of training	Male	Female	Total
1	Horticulture	2	71	14	85
2	Home Science	12	00	370	370
3	Agriculture Engineering	11	203	212	415
4	Plant Protection	4	156	11	167

5	Crop Production	7	267	33	300
6	Extension Education/Capacity building	2	55	00	55
7	Rural Youth	7	97	154	257
8	Extension functionary	2	70	20	90
	Total	47	919	814	1733

6.3.2 Training Achievement (Off campus):

Sr.	Cubicat	No of training		No of Participants	
No.	Subject	No of training	Male	Female	Total
1	Horticulture	2	71	14	85
2	Home Science	14	15	435	450
3	Agriculture Engineering	17	127	238	365
4	Plant Protection	9	534	18	552
5	Crop Production	6	387	129	516
6	Extension Education/capacity building	5	219	6	225
	Total	53	1353	840	2193

6.4 Sponsored and Collaborative Training Programmes

Sr.	Date	Title	Discipline	cipline Thematic area Duration (PF)		Client	No. of	No. of Participants			Sponsoring
No.	Date	Title	Discipline	Thematic area	(days)	RY/EF)	courses	M	F	T	Agency
1	15/01/2021	Integrated crop management	Agriculture Extension	IFS	01	PF	01	34	0	34	State department
2	19/01/2021	Capacity building for ICT application	Agriculture Extension	Income generation	01	RY	01	29	5	34	BCI
3	23/02/2021	Fertilizer Management	Crop production	INM	01	PF	01	35	0	35	GSFC
4	22/03/2021	Micro Irrigation System	Agriculture Engineering	Resource conservation	01	PF&FW	01	40	20	60	GGRC

5	03/04/2021	Quality Seed Production	Crop production	Farming system	01	PF	01	60	0	60	Bij Nigam Amreli
6	12/08/2021	Urban horticulture	Crop production	Farming system	01	RY	01	30	30	60	District Horti. dept, Amreli
7	08/09/2021	Agro forestry	Crop production	Agro forestry	01	EF&FW	01	100	20	120	District Forest Dept., Amreli
8	21 to 22/09/2021	Value Addition of millets	Home Science	Value Addition	02	FW	01	00	30	30	ATMA
9	30/09/2021	Rainwater harvesting methods	Agriculture Engineering	Resource conservation	01	PF&FW	01	00	30	30	ATMA
10	04 to 05/10/2021	Value Addition of fruits and vegetables	Home Science	Value Addition	02	FW	01	00	50	50	District Horti. dept, Amreli
11	01 to 03/12/2021	Bakery products development	Home Science	Income generation activities	03	RY	01	00	29	29	College of Agri., Motabhandariya
12	22 to 23/12/2021	Value Addition of fruits and vegetables	Home Science	Value Addition	02	FW	01	00	50	50	District Horti. dept., Amreli
13	22/12/2021	Fruit Plants	Agriculture Engineering	Preservation & value addition	01	FW	01	0	37	37	District Horti. dept., Amreli
14	27/12/2021	Honeybee farming	Plant protection	Income generation	01	PF&FW	01	106	80	186	Amar Dairy
15	28/12/221	Value Addition of fruits and vegetables	Home Science	Value Addition	02	FW	01	00	25	25	District Horti. Dept., Amreli
							Total	434	406	840	

6.5 Vocational training programmes for rural youth

			No. o	f Partic	ipants	Self-e	mployed afte	r training	Number of	
Crop / Enterprise	Training title*	Identified Thrust Area	Duration (days)	M	F	Total	Type of units	Number of units	Number of persons employed	persons employed else where
Home Science	Bakery Products Development	women empowerment	04	00	40	40	0	0	0	0

7. Achievements of Frontline Demonstrations:

7.1 Details of farming situation of FLDs conducted (January 2021- December 2021)

Cron	Coacan	Farming	Type of	Sta	tus of	Soil	Sowing date	Hawvesting Date
Crop	Season	situation	Soil	N	P	K	Sowing date	Harvesting Date
Sesame		Irrigated		L	M	Н	2 nd to 4 th week of February-2021	3 rd to 4 th week of April 2021
Black Gram	Summer 2021	Irrigated		L	M	H 2 nd to 3 rd week of February-2021		2 nd to 3 rd week of April 2021
Green Gram		Irrigated		L	M	Н	$2^{ m nd}$ to $3^{ m rd}$ week of February-2021	2 nd to 3 rd week of April2021
Castor		Rainfed	Medium	L	M	Н	4th week of July to 2nd week of August-2021	Yield awaited
Cotton	Kharif-21	Rainfed	Black	М	M	Н	3 rd week of June to 1 st week of July-2021	4th week of January to 2nd week of February-2022
Wheat		Irrigated		M	L	Н	2 nd to 3 rd Week of November 2021	Yield awaited
Cumin	Rabi	Irrigated		L	M	Н	3 rd to 4 th Week of November 2021	Yield awaited
Coriander	21-22	Irrigated		M	M	Н	2 nd to 3 rd Week of November 2021	Yield awaited
Chick pea		Irrigated		L	M	Н	1st to 2nd Week of November 2021	Yield awaited

7.2. Performance of Front line demonstrations of crops

Sr.			Commonant		Amaa	Average	yield (q/ha)	% increase in	
No.	Crop	Season	Component /variety	No. of FLD	Area (ha)	Demon.	Local check (Variety)	productivity over local check	
1	Sesame	Summer 2021	GT-3	10	4	12.21	10.68	14.33	
2	Black Gram	Summer 2021	Guj. Urd-2	10	4	9.736	8.43	15.49	
3	Green Gram	Summer 2021	GM-6	10	4	8.58	7.48	14.71	
4	Castor	Kharif-21	GCH-9	10	4	Yield awaited			
5	Cotton	Kharif-21	INM	10	4	12.2	11	10.91	
6	Wheat	Rabi 21-22	INM	10	4				
7	Cumin	Rabi 21-22	IDM	10	4	77: 11 1			
8	Coriander	Rabi 21-22	GC-2	10	4	Yield awaited			
9	Chick pea	Rabi 21-22	Drip irrigation	10	4				

7.3 Economic Impact of FLDs

Sr.	Crop	Crop Variety/					Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Cost Ratio (Gross Return / Gross Cost)	
No.		Component		Demo	Local Check	Demo	Local Check	Demo	Local Check	Demo.	Local	
1	Sesame	GT-3	Summer 2021	22878.4	22175	109890	85440	87011.6	63265	4.80	3.85	
2	Black Gram	Guj. Urd-2	Summer 2021	19523	19033	38944	32034	19421	13001	1.99	1.68	
3	Green Gram	GM-6	Summer 2021	21198.4 216156 55770 41140 34571.6 19525					2.63	1.90		
4	Castor	GCH-9	Kharif-21				Yield awa	aited				
5	Cotton	INM	Kharif-21	30682	32400	109800	82200	79118	49800	3.58	2.54	
6	Wheat	INM	Rabi 21-22									
7	Cumin	IDM	Rabi 21-22	Yield awaited								
8	Coriander	GC-2	Rabi 21-22									
9	Chick pea	Drip irrigation	Rabi 21-22									

7.4 Details of FLD on Enterprises

(I) Farm Implements

Name of the implement	Name of technology	Crop	No. of farmers	Area (ha)	Performance parameters
Cotton Shredder	Agril. Machinery	Cotton	10	12	0.20 ha/hr (Field capacity)
Revolving milking stool	Drudgery reduction	-	5	-	Ongoing

7.5 Farmers Reaction:

Crop	Variety/Input	Farmers' reaction
		► High Yield Variety
Gram	GJG-3	► Bold seeded Variety
		► Stunt virus resistant Variety
Cumain	IDM	Less problem of wilt due to application of Trichoderma
Cumin	IDM	► Less problem of blight and powdery mildew due to spraying of carbendazim and Hexaconazole
		► Resistant to Shoot borer
Wheat	GW-173	► High yielding
		▶ Best for late sowing
Wheat	GJW-463	► High Yield Variety
Wilcat	d)W-403	► Grain quality is good
Green	GAM-5	► Highly resistant to Yellow Mosaic Virus (YMV)
Gram	GAM-5	► Bold seed size with attractive shiny grain appearance
		► Higher production
Groundnut	GJG-22	► Less stem rot problems
		▶ Quality of seed is good
Sesame	GT-4	► Bold seeded, whiteness more and higher production then other varieties
C	IND	► Less reddening of leaves
Cotton	INM	► Higher Yield
6	CMILL 40	► Higher Yield
Cotton	GTHH-49	► Suitable for High density planting
6	IDM	► Better control of pests
Cotton	IPM	► Economic to other chemical pesticides
Castan	CCILO	▶ Resistance to wilt, root rot and tolerant to sucking pests
Castor	GCH-9	► Higher Yield
		► High yielder
Sorghum	GFS-5	► Resistance to major pests and diseases and suitable under drought condition
Pigeon		► High yielding
Pea	GJP-1	► Bright white colored seed gives good price in market

8. Other Schemes Activities

8.1 Agriculture Technology Information Centre Activities (ATIC):

I. Trainings:

Sr. No.	Types of training	No. of Training	No. of participants
1	On Campus	9	346
2	Off Campus	15	768
3	Field day	9	160
4	Field visit	19	182
	Total	52	1456

Sr.	Cron Seas		Component	No. of	Area	Average yield (q/ha)		% increase in productivity
No.	СГОР	Season	/Variety	FLD	(ha)	Demo	Local check	over local check
1	Groundnut		IPM (Metarhizium, Beauveria , Azadirechtin chloropyriphos	20	5	23.18	21.05	10.14
2	Cotton	Kharif	MDT tube	10	2.5	21.3	18.1	17.50
3	Cotton	21	IPM (Cotton Inputs Beauveria, Azadirechtin, Pheromone trap)	20	5	22.24	20.13	10.50
4	Groundnut		GJG-32	20	5	29.54	26.31	12.27
5	Sesame		GT-4	10	4	2.37	2.05	16.09
6	Gram	Rabi	GJG-6	25	6.25	Crop standing		
7	Gram	21-22	IDPM	25	6.25			
8	Onion		IDM	10	2.5	Crop standing		iiuiiig
9	Wheat		GW-463	25	6.25			
			Total	165	42.75			

III. Economic Impact of FLDs (ATIC)

Crop	Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)			Vet Return (Rs./ha)	Cost Ratio (Gross Return / Gross Cost)	
	Demo	Local Check	Demo	Local Check	Demo	Local Check	Demo	Local Check
Groundnut	31944	34282	120709	109486	88765	75204	3.78	3.20
Cotton	40063.8	41293.4	182348.3	149983.3	142284.5	108689.9	4.57	3.64
Cotton	38621	41029	190777	168962	152156	127933	4.97	4.16
Groundnut	30238	32926	151646	134957	121409	102031	5.08	4.15
Sesame	10227	11202	19702	16933	9474	5731	1.91	1.51
Gram								
Gram								
Onion	Yield awaited							
Wheat								

8.2. I. Activities-Cluster base Front Line Demonstrations of Rabi and Summer Pulses under NFSM:

Sr. No.	Types of training	No. of training	No. of participants
1	On campus	4	125
2	Off campus	3	80
3	Field Day	6	210
4	Field visit	15	231
5	Sponsored training	2	72
	Total	30	718

II. Cluster Front Line Demonstrations of Rabi Pulses under NFSM:

Sr.	Cwan	Conson	Component	No.	Area	Average yield (q/ha)		% increase in productivity	
No.	Crop	Season	/Variety	of FLD	(ha)	Demo	Local check	over local check	
1	Pigeon pea	Kharif 21	GJP-1, Trichoderma, Rhizobium, Beuvaria, PSB	50	20	Standing			
2	Gram	Rabi- 2021-22	GJG-6, Trichoderma, HNPV, Beuvaria, pheromen trap	50	20	Standing			
		•	Total	100	40				

8.3. I. ACTIVITIES-CLUSTER BASE FRONT LINE DEMONSTRATIONS OF OILSEED UNDER NMOOP:

Sr. No.	Types of training	No. of training	No. of participants
1	On/Off campus	8	364
2	Field Day	7	135
3	Sponsored training	1	38
	Total	16	537

II. CLUSTER FRONT LINE DEMONSTRATIONS OF OILSEED UNDER NMOOP:

Sr.	Sr. Gran Saca		Component No.		Area	Average yield (q/ha)		% increase in productivity	
No.	Crop	Season	/Variety of Fl		(ha)	De mo	Local heck	over local check	
1	Groundnut	Kharif- 2021	GJG-22, Metarhizium, Rhizobium and PSB	50	20	27.8	26.23	5.99	
2	Sesame	Kharif- 2021	GT-4 and Beauria, Trichoderma, Azadirectine, Pendimethalin	50	20	2.11	1.91	10.33	
			Total	100	40				

8.4 Activities under ARYA:

I. Enterprise established:

	Enterprise								
Sr. No.	Indicators	Name of Enterprise 1: Dal mill (02)	Name of Enterprise 2: Masala making (02)	Name of Enterprise 3: Mava making (02)					
1.	Year of establishment	Feb, 2022	Feb, 2022	Feb, 2022					
2.	No. of Training Programs Conducted (Number)	03	02	02					
3.	No. of Rural youth trained (Number)	96	70	181					

II. Training programme:-

Sr. No.	Title	No. participate
1.	Awareness training on ARYA	150
2.	Value addition of milk	25
3.	Marketing opportunity for value added product of spices	37
4.	Value addition of milk	39
	Total	251

8.5 Activities under MGMG:

I. Detailed Progress:

No. of Team formed	No. of Scientists	No. of Villages selected	No. of Blocks	No. of Districts	Bench Mark Survey conducted (No. of villages)
02	08	10	03	01	10

II. Activities undertaken

Activities undertaken by ICAR Institutes under MGMG

S. No.	Name of activity	No. of activities	No. of farmers
		conducted	benefitted
1	Awareness created	03	300
2	Demonstrations conducted	06	15
3	Interface meeting/ Goshthies	05	95
4	Literature support provided	06	1345
5	Training organized	01	35
6	Visit to village by teams	05	120
7	Mobile based advisories	32	4521
Total		58	6431

III. Other activities organized by ICAR Institutes/ SAUs under MGMG Table -2: Other activities organized by ICAR Institutes under MGMG:

S. No.	Activity	Particulars	
1	Linkages developed with other	No of Agency (No)	03
	agencies	Farmers Benefitted (No)	310

8.6 Front Line Demonstration on Kitchen gardening:

Sr. No.		Name of vegetables	<u> </u>	Seasons	No. of
	Crop	Varieties	Qty. (Gram)		participants
	Bottle guard	Pusa Navin	15		
	Brinjal	GJB-3	7		
1	Dillijai	GRB-7	7	Kharif	100
	Cucumber	Gujarat Kakadi 1	7		
	Ladies finger	GO-6	25		
	Beans	AVC-1	30		
	Onion	ALR	10		
	Coriander	GDLC-1	10		
	Methi	RMT-305	10		
	Cowpea	CP-6	10		
	Carrot	P. Rudhira	10		
2	Radish	P. Chetki	10	Rabi	100
	Chilli	K-2	5		
	Brinjal	P. Uttam	5		
	Tomato	PKM-1/S-22	5		
	Pea	P. Pragati	5		
	Drumstick	PKM-1	5		
	Palak	All Green	5		

8.7 Activities under DAMU:

I Number of Weather Bulletin prepared from January - December, 2021

District Name	No. of Bulletins	
Amreli	104	

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

II Number of farmers connected

Particular	No. of farmers
Whatsapp Group- 17	2356
Telegram Group - 1	194 Subscribers
Facebook page	1880 followers

III Detail of farmers connected through WhatsApp

Name of the	Total	No. of	No. of	No. of	No. of Extension
Block	Village in	WhatsApp	Farmers	Villages	Workers at
	Block	Group	Covered	Covered	panchayat /
					village level
Amreli	71	4	694	59	10
Babra	57	2	335	48	7
Bagasara	34	2	286	29	4
Dhari	75	1	162	42	8
Jafrabad	42	1	51	20	5
Khambha	57	1	127	45	3
Kunkavav-	45	2	261	41	5
Vadia					
Lathi	49	1	100	28	8
Lilia	37	1	78	38	6
Rajula	72	1	120	25	4
Savarkundla	80	2	276	51	15
Total	619	18	2490	426	75

IV Farmer Awareness Program (FAP) organized by KVK, JAU, Amreli under DAMU

S.	FAP/ Farmers meet /Meghdoot	Date	Loca	tion	Approx. No. of Farmers	
No.	Popularization activities	Date	Village	Block	attended the Program	
1	FAP, App.Popularization,	16-01-21	Lilia	Lilia	25	
2	FAP, Meghdoot App.Popularization	18-01-21	Halriya	Bagasara	24	
3	FAP, Meghdoot App.Popularization,Field visit	20-01-21	Sukhpur	Babra	12	
4	FAP, Meghdoot App.Popularization	15/07/2021	Amreli	Amreli	29	
5	FAP, Meghdoot App.Popularization	14/09/2021	Mangvapal	Amreli	47	
6	FAP, Meghdoot App.Popularization	23/09/2021	Pithadiya	Bagasara	61	
				Total	198	

9. Celebration of Special Events -

- ❖ International Women Day- On 09/03/2021, International women day was organized for 60 women. The objective and agenda of this international women day was to give women equity, empowerment and entrepreneurship. Looking to the objective all programme was based on same agenda.
- ❖ World Water Day- On 22/03/2021 World Water Day was celebrated in KVK, Amreli with total number of participants 60. During the event different lecture on water saving method and techniques in agriculture and allied sectors was given by the scientist of KVK and line department members.
- ❖ World Milk Day- On 01/06/2021 World Milk Day was celebrated in KVK, Amreli by organizing online training progarmme with total number of participants 70. During the event different lecture on world milk day was delivered by the scientist of KVK and other related department members.
- ❖ Fertilizer awareness programme- On 18/06/2021 Fertilizer awareness programme was celebrated in KVK, Amreli by organizing online webinar with total number of participants 49. During the event different lecture was delivered by the scientist of KVK.
- ❖ Parthenium Awareness week- As it is known to everyone that 'Parthenium Awareness week' was organized every year since 2004 to make farmers and general public aware about the menace of parthenium, so like every year this year KVK, Amreli also organized several activities from 16/08/2021 to 21/08/2021. Here is the list of activities with photographs.

Date	Name of Activity	Location	No. of Participants
	Lecture delivered on Parthenium	Motabhandariya,	
16/08/2021	uprooting, releasing Mexican	College of Agriculture,	42
	beetles	JAU, Amreli	
	Awareness programme on	Motabhandariya,	
16/08/2021	composting of uprooted biomass	College of Agriculture,	42
		JAU, Amreli	
17/08/2021	Parthenium uprooting in public	Amreli	10
1 //06/2021	place		10
	Training programme organized	Village- Mangawapal,	
18/08/2021	on spraying herbicides and	Amreli	20
	composting of uprooted biomass		
	Training programme on	Village-Kachardi,	
18/08/2021	releasing Mexican beetles and	Amreli	25
	Parthenium uprooting		
21/08/2021	Parthenium uprooting in campus	KVK, Amreli	14

❖ Technology week celebration- Technology week has been celebrated from 14/09/2021 to 18/09/2021 at Krishi Vigyan Kendra, Amreli, with a view to create mass

awareness among the farmers about the location specific advanced technologies for the sustainable agricultural production. Seminars and demonstrations on advanced technologies in agriculture and allied discipline such as Horticulture, Plant protection, Crop Production, Agriculture engineering, Agriculture extension and Home science have been conducted during the week. Total 291 participants including 57 farm-women and 234 farmers from about 07 villages of Amreli District were benefitted.

Details of Participants:

Date	Тс	ıluka wise Village	No. of participants			
Date	1 6	iluka wise village	M	F	T	
14/09/2021	Amreli	Mangvapal	2	46	48	
15/09/2021	Kukavav	Pithadia	50	11	61	
16/09/2021	Amreli	Amreli	55	00	55	
17/09/2021	Amreli	Amreli	100	00	100	
18/09/2021	Amreli Varasda, Keriyanagas, Giriya		27	00	27	
		Total	234	57	291	

- ❖ PM Varieties release- On 28/09/2021 PM Varieties release progaramme was organized by KVK, Amreli with Online mode. In this programme 65 participants including 14 KVK staff take part.
- ❖ Millet Awareness day and tree plantation- On 17/09/2021 Millet Awareness day and tree plantation was celebrated by KVK, Amreli with number of participants 52.
- ❖ World Food Day: World Food Day was celebrated on dt.: 16/10/2021. It was organized for 50 students, in this programme different information and lecture was delivered by KVK, scientist.
- ❖ Minister visit: On dated 11/11/2021 Honorable Agriculture Minister of Animal Husbandry and Cow breeding Shri Raghavji Patel Sir and Member of Parliament Shri Narayanbhai Kachhadiya sir visited KVK, Amreli and appreciated all the work done by KVK, Amrel. In this programme Dr. N. K. Gontia Hon'ble Vice Chancellor, JAU, Junagadh, Dr. H. M. Gajipara, DEE, JAU, Junagadh and other line dept officers, KVK, JAU, Amreli staff and progressive farmers of Amreli district were remained present.
- ❖ Swacchta Hi Sewa fortnight: On 16/12/2021 to 31/12/2021 Swacchta Hi Sewa fortnight was celebrated in KVK, by organizing different events as per guideline of ICAR. The schedule of the whole month programme that was completed in Dec 2021 under SWS was as follows:-

Date	Activities	Palce	Particip ants
16-Dec-21	Plantation of trees	Amreli	34

17-Dec-21	Cleaning of offices, corridors and premises	KVK, Amreli	22
18-Dec-21	Cleanliness and sanitation drive in the villages	Liliya	
	adopted under the Mera Gaon Mera Gaurav		22
19-Dec-21	Cleanliness and sanitation drive within	KVK, amreli	
	campuses and surroundings		44
20-Dec-21	Utilization of organic wastes/ generation of	KVK, amreli	
	wealth from waste, polythene free status		32
22-Dec-21	Technology demonstrations on agricultural	KVK, amreli	
	technologies for conversion of waste to wealth,		
	safe disposal of all kinds of wastes		49
23-Dec-21	Celebration of <u>Special Day</u> - KisanDiwas	KVK, amreli	
	(Farmer's Day)-23 December inviting farmers.		52
25-Dec-21	Cleaning of public places	Keriya road,	
		Amreli	28
27-Dec-21	Awareness on waste management	FTC, Amreli	31
28-Dec-21	awareness on recycling of waste water, water	KVK, amreli	
	harvesting for agriculture		55

- ❖ Hon'ble Prime Minster Talk: On 16/12/2021 The hon'ble Prime Minster of India had addressed the farmers on Natural farming for this event KVK, Amreli organized one programme for 62 farmers and 86 farm women.
- ❖ Celebration of Farmers day: During 23 to 25 December 2021, Farmers day was celebrated by KVK, Amreli During this programme 144 farmers and 136 farm women take a part. Different training programme and lecture was organized for the same occasion.
- ❖ Jal Shakti Abhiyan: Jal Shakti Abhiyan was celebrated by KVK, JAU, Amreli from April to November 2021. Various online, on campus and off training programmes and various awareness programmes were organized about efficient water utilization in agriculture, micro irrigation system, rainwater harvesting, soil and water conservation, groundwater recharge etc.

Trainin	ng Programs	No. Seed Packets	No. Saplings	Awarene	ess Programs
Number	Total Participants	distributed	distributed	Number	Participants
14	518	199	210	30	1109

10. Extension Activities

Activities	No. of	No. of	No. of Ext.	TOTAL
	programmes	farmers	Personnel	101112
Advisory Services	1512	1512	23	1535
Whatsapp group	05	320	1	321
Diagnostic visits	10	52	2	54
Field Day	10	167	15	175
Group discussions	03	201	0	201
Film Show	28	1471	05	1476
Scientists' visit to farmers field	55	549	7	768
Ex-trainees Sammelan	2	125	05	130
Farmers' seminar/workshop	3	73	00	73
Method Demonstrations	25	1119	0	1119
Celebration of important days	4	196	5	201
Special day celebration	6	366	4	370
Exposure visits	6	184	0	184
Others (pl.specify) Lecture Delivered	119	2637	08	2637
Total	1358	8542	75	8814

10.1 Online activities during year 2021

Sr. No.	Activity Type	Mode of implementation	Title of Program	No. of Program- mes	No. of Participant s/Views
Α	Farmers training				
1	World Milk Day Celebration	ZOOM App	World Milk Day Celebration	1	43
2	World bee Day Celebration	Google meet	World bee Day Celebration	1	30
3	Farm women training	Whatsapp video conferencing	MIS and Water conservation	1	25
4	Farmers' and Farm women training	YouTube Live	Cotton crop planning, seed selection, natural farming & rainwater harvesting	1	31
5	Farmers' and	Google meet	Rainwater	1	27
6	Farm women training and awareness	ZOOM App	harvesting & Groundwater	2	75
7	Farmers' and	Google meet	recharge	1	25
8	Farm women training	Google meet	Efficient use of fertilizer	1	61
	Total			9	317

11. Performance of demonstration units

11.1. Nursery raising at KVK:

We also developed one small scale nursery in net house, raising the different seedlings like Brinjal, tomato and chili for selling to farmers at nominal price.

Crop	Name of the crop	Name of the variety	Name of the hybrid	Number	Value (Rs.)	Number of farmers
	Brinjal	Gujarat Junagadh Round Brinjal-6	-	5000	2500	65
Vegetable seedlings	Tomato	Gujarat Tomato- 6	-	3560	1780	48
	Chilli	Gondal patto (local)	-	3600	1800	55
			Total	12,160	6,080	168

11.2 Horticultural Demonstration Units

Cl No	Doma Unit	Area	Details of production
Sl. No.	Demo Unit	ha	Variety/No. of various plants
1	Herbal garden	0.1	Medicinal plant
			Guava-45 Kg
2	Orchards unit	0.5	Sapota- 72 Kg
2	Of Charus unit	0.3	Custard apple- 12 Kg
			Mango- 22 Kg

11.4 Soil/Water testing sample analysis

Sr. No.	Type of Sample	Numbers of sample	Income (Rs.)
1	Soil	18	5,400
2	Water	21	1680
Total		39	7080

12. Performance of instructional farm including seed Production

S	Name of	Date of	Date of	Area	Details of production		tion
N	crop	Sowing	Harvesting	(ha)	Variety	Type of produce	Qty. (Kg)
1	Wheat	09/11/2020	08- 10/03/2021	1	GJW- 463	Truthful	4780 kg
2	Groundnut	21 & 29- 30/06/2021	25- 29/10/2021	11	GJG-22	Foundation	10445 kg
3	Chickpea	20/11/2021	-	1.0	GJG-6	Truthful	Standing

13. LINKAGES

Functional linkage with different organizations

Sr. No.	Name of linkages
1.	Dy. Director of Agriculture.
2.	Dy. Director of Agril. Extension (FTC)
3.	Dy. Director of Horticulture
4.	Dy. Director of Animal Husbandry
5.	Dy. Director of Soil Conservation
6.	Dy. Director of Social Forestry
7.	Amreli Jilla Madhya Sahakari Bank
8.	Milk Co-Operative Society
9.	State Bank of India
10.	National Bank for Agriculture & Rural Development (NABARD)
11.	NHRDF
12.	Doordarshan Kendra
13.	All India Radio
14	District Rural Development Agency
15.	ATMA
16.	Mahindra & Mahindra Co. Ltd.

List of Projects on going under the KVK, which have been financed by State Govt. /Other Agencies

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)
Agricultural Technology Information Centre (ATIC)	2005-06	State Government	850000
Cluster base FLD of Rabi Pulses under NFSM	2015-16		780896
National Mission on Oilseeds and Oil Palm (NMOOP)	2015-16	ICAR, New Delhi	137204
Attracting and Retaining Youth in Agriculture (ARYA)	2019-20		1506628
DAMU	2019-20		621057

14. FINANCIAL PERFORMANCE

14.1 Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
A. With Host Institute	State Bank of India	Agril campus, Junagadh	
B. With KVK	State Bank of India	Amreli (Current A/C)	10837874780
		Amreli (Saving A/C)	10837877690

14.2 Utilization of KVK funds during the year (April 2021 to December 2021)

Sr. No.	Particulars	Sanctioned	Released	Expenditure			
A. Recu	rring Contingencies						
1	Pay & Allowances	95.00	78.47	68.40			
2	Traveling allowance	1.00	8.68	0.24			
3	Contingencies	12.00	0.00	9.64			
	Total (A) 108.00 87.15 78.28						
	B. Non-Recurring Co	ntingencies					
1	Equipments including SWTL &	00	00	00			
	Furniture/Vehicle/Library	00					
	Total (B) 00 00 00						
C.	Revolving fund	00	00	9.56			
	GRAND TOTAL (A+B+C)	108.00	87.15	87.84			

15. Status of revolving fund (Rs.) for the last three years

Year	Opening balance as on	Income during the year	Expenditure during the year	Net balance in hand as on
April 2019 to March 2020	54,42,575	21,30,032	19,80,100	55,92,507
April 2020 to March 2021	55,92,507	11,59,196	1,01,4207	57,37,496
April 2021 to December, 2021	57,37,496	8,44,517	9,56,494	56,25,519

16. Workshop/Seminar/Conference/Meeting etc attended.

Name of the staff	Designati on	Title of the training programme	Institute where attended	Mode (Online/ Offline)	Dates
	Senior	Annual Action Plan of KVK, Amreli		Online	18/02/2021
Dr. N.S. Joshi	Scientist and head	Useful for extension activities	JAU	Online	9 to 10/03/2021
	and nead	Zonal workshop	ICAR	Online	4 to 6/08/2021
		Aquifer Mapping and Groundwater Management	CGWB New Delhi, India	Online	28/12/2021
		Presentation skills for professional excellence	DEE, JAU, Junagadh	Offline	1 to 03/12/2021
		Use of mass media for transfer of technology	EEI, AAU, Anand, JAU, Junagadh	Online	1 to 03-09- 2021
Dr. P. S Jaysawal	Scientist (Agril. Engg.)	Participatory Programme Planning, Monitoring and Evaluation	EEI, AAU, Anand, JAU, Junagadh	Online	9 to 10/03/2021
		IT Applications in Precision Irrigation	Mahatma Phule Krishi Vidyapeeth (Agricultural University), Rahuri (On line training programme)	Online	26/04/2021 to 16/05/2021
		Participatory prog. Planning monitory and evaluation	EEI Anand, JAU, Junagadh	Online	09/03/2021 to 10/03/2021
Dr. Neha Tiwari	Scientist (Home Science)	Uses of mass media for transfer of Technology	EEI Anand, JAU, Junagadh	Online	01-09-2021 to 03-09- 2021
		Online Orientation programme of newly recruited SMS of KVKs	EEI Anand, JAU, Junagadh	Online	03/05/2021 to 05/05/2021
Mr. N.M. Kachhadiya	Scientist (Plant Protection)	International webinar on Desert locust Schistocera Gregaria (Forskal) International Scenario and a potential threat to India	NIPHM, Hyderabad	Online	02-07-2021

	Uses of mass media for transfer of Technology		EEI Anand, JAU, Junagadh	Online	01-09-2021 to 03-09- 2021
		PPAG seminar on maintenance of quality and safety of horticultural amd food crops through biological control of pests and disease	NAU, Navasari	Offline	30-12-2021
		Integrated nutrient management	Dept. of Agronomy, JAU, Junagadh	Online	08 to 12/02/2021
Mr. P. J. Prajapati	Scientist (Agronomy)	Participatory Programme Planning, Monitoring and Evaluation	EEI, AAU, Anand	Online	09/03/2021 to 10/03/2021
		Presentation skills for professional excellence	DEE, JAU, Junagadh	Online	01/12/2021 to 03/12/2021
Mr. V. S	Scientist	Reorienting Extension Education and Advisory Services for Sustainable Development of Farming Community	KVAFSU & NADCL, Jammu Kashmir	Online	08 to 28/07/2021
Parmar	(Agril. Ext.)	Use of mass media for transfer of technology	EEI, AAU, Anand	Online	01 to 03-09- 2021
		Online orientation programme on newly requited SMS	EEI Anand, JAU, Junagadh	Online	03/05/2021 to 05/05/2021

17. Literature Developed/Published.

Item	Title	Authors name	Number		
Research papers	A study of attitude of parents	N. Tiwari	01		
	regarding gender discrimination				
	To study opinion regarding necessity of marriage among				
	female of the Mehsana and	N. Tiwari and J. N. Vyas	01		
	Ahmadabad				
	To study the knowledge of				
	adolescences girls regarding	N Timesi and I N Vices	01		
	iron deficiency anemia in Amreli	N. Tiwari and J. N. Vyas	01		
	city				
	Opinion of parents regarding the				
	need to provide sex education to	N. Tiwari and J. N. Vyas	01		
	adolescents of Mehsana city				
	To study the attitude on marital	I N Vyrag and N Tivyani			
	adjustment of selected respondents from Mehsana and	J. N. Vyas and N. Tiwari and N. Chaudhari	01		
	Ahmadabad city	and iv. Graduitari			
	Adoption of selected drudgery				
	reduction technologies related	N Transacional I N Mars	01		
	to	N. Tiwari and J. N. Vyas	01		
	agriculture by the farm women				
	An analytical study of food and				
	nutritional values amongst		0.4		
	urban and rural people in	J. N. Vyas and N. Tiwari	01		
	Ahmedabad district: A				
	comparative evaluation Morphometric Study of				
	Dhatarwadi River Basin Using	P.S. Jayswal, N. K. Gontia	01		
	RS and GIS Techniques	and K. N. Sondarva			
Book		N. S. Joshi, N. Tiwari., P. S.			
	Achievements and Endeavours	Jayswal, P. J. Prajapati, V.			
	of KVK, Amreli Since Year 2005-	S. Parmar, N. M.	01		
	06 to 2020-21	Kachhadiya, S. G. Baria, K.	01		
	00 00 2020 21	J. Gadhiya, N. J. Hadiya, N.			
	Family resource management	B. Ghoniya J. N. Vyas and N. Tiwari	01		
Technical	Monthly (Gujarati, English)	j. iv. vyds allu iv. Hwdfl	24		
reports	Quarterly (Gujarati, English)		8		
1000165	Six monthly (Gujarati, English)				
	Nine monthly (Gujarati, English) Annual report (Gujarati, English) ZREAC Rabi 2021-22 Summer 2021				
	ZREAC Kharif 2021-22				
	AGRESCO		1		
	Combined AGRESCO		1		
	SAC 2022		1		

News letters	JAU, News Letter		4
Popular articles	Bajarana mulayavaradhan thee	N. Tiwari, P. S. Jayswal &	01
	banatee vishisht vaanageeo	N. S. Joshi	
	Indigenous Technical	P. J. Prajapati, Dr. N. S. Joshi,	01
	Knowledge (ITK) in Organically	N. M. Kachhadiya and V. S.	
	Grown Vegetable Crops	Parmar	
	Agricultural Importance of	N. M. Kachhadiya, V.S.	01
	Entomopathogenic Fungi	Parmar, P. J. Prajapati, N. S.	
	(ENPF)	Joshi	
	Vitamin B ₁₂ shu che?	M. K. Bariya, H. S. patel and	01
		V. S. Parmar	
	Shuksh pradesh mate ashirvadrup	N. J. Hadiya, M. L. Patel, N. S.	01
	fal: dragon fruit	Joshi, V. S. Parmar, P. J.	
		Prajapati	
Extension	બાજરાના મૂલ્યવર્ધનથી બનતી વિશિષ્ઠ	N. Tiwari, P. S. Jayswal, N.	1000
literature	વાનગીઓ	S. Joshi, P. J. Prajapati, V. S.	
(FOLDER)	પાંડુરોગ નિવરણ માટે ઓછા ખર્ચમાં તૈયાર	Parmar, N. M. Kachhadiya,	1000
	થતી વાનગીઓ	S. G. Baria, K. J. Gadhiya, N.	_ : 0 0
	વતા તાપભાજા	J. Hadiya, N. B. Ghoniya	
TOTAL			2062

18. Success Stories:

Success Story-1: Muskmelon with Mulching and crop cover

Name : Khunt Ankit Rameshbhai

Address : At- Hirana Ta- Lathi Di-Amreli

Age : 30

 Contact No.
 : 9904333038

 Land
 : 1.68 ha

 Live Stock
 : 1 buffalo

Interventions Ankitbhai Growing Cotton crops during last 10 year. Due to

the Pink bollworm attack they changed their cropping pattern and Growing Groundnut (GJG-32) Crops During the Kharif Season and in Winter Season He has Grown Muskmelon

(Madhuraja) variety with plastic mulch and Crop cover.

Economics Gain Before Intervention

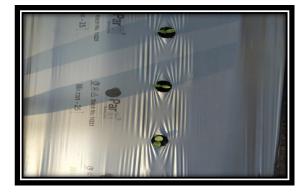
Crop	Yield (Q)	Cost of Gross cultivation (Rs.) (Rs.)		Net profit (Rs.)	Cost ratio
Cotton	35	85000	210000	125000	1:2.47

After intervention

Стор	Yield (Q)	Cost of cultivation (Rs.)	Gross return (Rs.)	Net profit (Rs.)	Cost ratio
Groundnut (GJG-32)	68	90000	374000	154000	1:4.15
Muskmelon (Madhuraja)	250	220000	750000	530000	1:3.40
Total	930	310000	1124000	684000	

• The farmer used to get annual income of Rs. 210000/- from cotton (BG-II). He faced problems like Pink boll worm. With DFI interventions Groundnut GJG-32 and musk melon (Madhuraja) get annual income Rs.1124000/-.









Success Story-2: Processing and value addition

Name : Arvindbhai Dhirubhai Dudhat

Address : At- Chakargadh, Ta- Amreli, Di-Amreli

Age : 46

Contact No. : 9879572849

Land : 5.28 ha

Live Stock : 2 Cow

Interventions Arvindbhai growing cotton crops during last 10 year. Due to the Pink

bollworm attack they changed their cropping pattern and growing groundnut crops during the kharif season and in winter season he has grown coriander and wheat. He has purchased Grading machine for the cleaning and grading of the produce and selling to the customer directly

and also use this Grading machine on rent basis.

Economics Gain: Before Intervention

Crop	Area (ha)	Yield (Q)	Cost of cultivation (Rs.)	Gross return (Rs.)	Net profit (Rs.)	Cost ratio
Cotton	5.28	112.20	290400	476850	286110	1:1.64

After intervention

Crop	Area (ha)	Yield (Q)	Cost of cultivation (Rs.)	Gross return (Rs.)	Net profit (Rs.)	Cost ratio
Cotton (BG-II)	3.6	94.50	198000	519750	337838	1:2.62
Groundnut (GJG-1)	1.68	54.60	85600	273000	163800	1:3.18
Coriander (GC-2)	0.48	10.20	12000	66300	39780	1:5.52
Wheat (GW-463)	0.4	25.00	10000	52500	31500	1:5.25
Grading machine			80000	300000	220000	1:3.75
Total	6.16	184.3	385600	911550	792918	

• The farmer used to get annual income of Rs. 286110/- from cotton (BG-II). He faced problems like Pink boll worm. With DFI interventions groundnut (GJG-22), cotton (BG-II), coriander (GC-2), wheat (GW-463) and from Grading machine and oil mill get annual income Rs. 9115550/-.





Success Story-3: Mulching in vegetable crops

Name : Chiragbhai Mansukhbhai Sakhreliya Address : At- Medi, Taluka- Amreli, Dist.-Amreli

Age : 35

Gain

Contact No. : 9426199649 **Land** : 1.29 ha

Interventions: The farmer and his brother Jagdishbhai Sarkheliya were cultivating cotton

crop. Due to pink boll worm infestation and Covid situation they have decided to shift cotton cultivation to chilli, musk melon and tomato

cultivation with plastic mulch and drip irrigation system.

Economics: Chiragbhai was selling cotton at low price due to low quality material.

After he has started chilli (Dry), tomato and musk melon cultivation with plastic mulch and drip irrigation, he got Rs. 3,67,000/- gross outcome and Rs. 2,51,000/- net-income, due to good quality production and nearby

market availability.





ACTION PLAN

(January - 2022 to December -2022) K.V.K., JAU, AMRELI

The KVK is an Innovative technological information centre for the development of farming community. The KVK carry out various activities as per objectives and mandates i.e. organizing on campus and off campus short and long term vocational training programmes in agriculture and allied vocational for the farmers, rural youth and farm women with emphasis on "Learning by doing". Organize training to update the extension personal with emerging advances in agricultural research. Gaps to generate production data and feedback will be conducting OFT for identification of specific location technologies. The below activities of KVKs will be organized in details for January 2022 to December 2022.

2. Training programmes:

The training programmes on various aspects related to Agricultural technology based on thrust areas will be organized during the quarter wise January 2022 to December 2022. Details of training programmes are as under.

A. On campus Training Courses:

Subject	Title of training	Duration (days)	No. of participants	Type of participants				
I Quarter Jan	I Quarter January 2022 to March 2022							
Home Science	Household food security by kitchen gardening and nutrition gardening	1	35	FW				
	Design and development of low/minimum cost diet	1	35	FW				
Horticulture	Nursery raising	1	35	PF				
Crop	Fertilizers recommendation based on soil analysis	1	35	PF				
Production	Scientific cultivation of summer crops	1	35	PF				
Plant Protection	Integrated approach for management to control of fall army worm in maize	1	35	PF				
Extension Education	Awareness regarding organic farming	1	35	PF				
Agriculture Engineering	Installation and maintenance of micro irrigation systems	1	35	FW-PF				

II. Quarter A	pril 2022 to June 2022			
Home Science	Minimization of nutrient loss in processing	1	35	FW
Horticulture	Cultivation of Fruit	1	35	PF
Crop Production	Cow based organic fertilizers preparation	1	35	PF
Plant Protection	Importance of organic pesticides	1	35	PF
Extension Education	Upgrade the knowledge of farmers about ICT	1	35	PF
Agriculture Engineering	Soil & Water Conservation technologies	1	35	FW-PF
III. Quarter J	uly 2022 to September 2022			
Home Science	Women and Child Care	1	35	FW
Crop	Organic farming	1	35	PF
Production	Use and Importance of Bio fertilizers	1	35	PF
Horticulture	Nursery Management	1	35	PF
Plant Protection	Integrated Disease Management of <i>rabi</i> crops	1	35	PF
Extension Education	Upgrade the knowledge about new varieties of <i>rabi</i> crops and its cultivation practices	1	35	PF
Agriculture Engineering	Importance of drainage in agricultural field	1	35	FW-PF
	Farm machineries for farm women	1	35	FW-PF
IV. Quarter C	October 2022 to December 2022			
	Value addition	1	35	FW
Home Science	Location specific drudgery reduction technologies	1	35	FW
Horticulture	Post harvest technology and value addition	1	35	PF
norticulture	Production and Management technology	1	35	PF
Crop Production	Scientific cultivation of rabi crops	1	35	PF
Plant Protection	Botanical pescticides	1	35	PF
Extension Education	Entrepreneurship development	1	35	PF

Agriculture	Post harvest technology and	1	25	FW-PF
Engineering	small scale value addition	1	33	rvv-Pr

PF: Practicing farmer, FW: Farm women

B. ON/OFF Campus Training Programme for Rural youth

Subject	Title of training	Duration (days)	No. of participants	Type of participants		
Crop Production	Natural Farming	1	25	RY		
Plant Protection	Plant Protection Appliances/ Equipments and Natural Farming	1	25	RY		
Agricultural Engineering	Value addition	1	25	RY		
Extension Education	Vermi -composting	1	25	RY		
Home science women empowerment		2	50	RY		
	Total 6 150					

RY: Rural Youth

C. OFF Campus Training Programme Courses

Subject	Title of training	Duration	No. of	Type of	
		(days)	participants	participants	
I. Quarter Jan	nuary 2022 to March 2022				
	Household food security by kitchen	1	45	FW	
Home	gardening and nutrition gardening	1	15	1 77	
Science	Designing and development for	1	45	TYAZ	
	high nutrient efficiency diet	1	45	FW	
Horticulture	Nursery raising	1	45	PF	
погисините	Natural farming	1	45	FW-PF	
Crop	Soil and water analysis	1	45	PF	
Production	Integrated Nutrient Management	1	45	PF	
	in summer crops	1	45	Pr	
DI .	Advance techniques of pest	1	45	DE	
Plant Protection	management	1	45	PF	
Protection	Natural farming	1	45	FW-PF	
Extension	Upgrade knowledge on seed	1	45	PF	
Education	treatment	1	15	11	
Ludcation	Natural farming	1	45	FW-PF	
	Installation and maintenance of	1	45	EW DE	
Agriculture	micro irrigation systems	1	45	FW-PF	
Engineering	Rain water harvesting	1	45	FW-PF	

II. Quarter A	pril-2022 to June- 2022			
Home	Gender mainstreaming through SHGs	1	45	FW
Science	Location specific drudgery reduction technologies	1	45	FW
Horticulture	Layout and Management of Orchards	1	45	PF
Crop	Preparation procedure of liquid organic fertilizer	1	45	PF
Production	Organic farming certification procedure	1	45	PF
Plant Protection	Method demonstration of organic product	1	45	PF
Extension Education	Market intelligence	1	45	FW
Agriculture Engineering	Repair and maintenance of farm machinery and implements	1	45	FW-PF
III. Quarter J	uly- 2022 to September - 2022			
Home	Value addition	1	45	FW
Science	Women and child care	1	45	FW
Crop	Package of practices of rabi crops	1	45	PF
Production	Natural farming	1	45	PF
Plant Protection	Bio -Pesticides	1	45	PF
Extension Education	Awareness about FPO & it's formation	1	45	PF
Agriculture	Small scale processing and value addition	1	45	FW-PF
Engineering	Use of Plastics in farming practices	1	45	FW-PF
IV. Quarter	October- 2022 to December -2022	ı		
Home	Design and development of low/minimum cost diet	1	45	FW
Science	Women empowerment	1	45	FW
Crop Production	INM in rabi crops	1	45	PF
Plant Protection	buening pest management in masi		45	PF
Extension Education	Entrepreneurship Development	1	45	PF
Agriculture	Post Harvest Technology	1	45	FW-PF
Engineering	Renewable energy source utilization on farm	1	45	FW-PF

PF: Practicing farmer, FW: Farm women

D. Training Programme (Quarter wise summary):

S.N. Subject			On campus		Off campus			G.T				
J.14.	Subject	I	II	III	IV	T	I	II	III	IV	Т	
1	Home Science	2	1	1	2	6	2	2	2	2	8	14
2	Horticulture	1	1	1	2	5	2	1	0	0	3	8
3	Crop production	2	1	2	1	6	2	2	2	1	7	13
4	Plant Protection	1	1	1	1	4	2	1	1	1	5	9
5	Extension Education	1	1	1	1	4	2	1	1	1	5	9
6	Agriculture Engineering	1	1	2	1	5	2	1	2	2	7	12
	Total	8	6	8	8	30	12	8	8	6	35	65

E. Vocational Training:

S.	Title of training	Duration	No of	Type of
N.		(days)	Participants	Participant
1	Mushroom cultivation	4	35	PF
2.	Beauty parlor and stitching	20	25	FW
3.	Bakery training	4	25	FW
	Total	28	75	

F. In Service Training:

A 1 AAA	1. In Service Training.					
S. N.	Title of training	Duration (days)	No of Participant	Type of Participant		
14.		(uays)	1 ai ticipant	i ai ticipant		
1	Communication skill and use of ICT equipment	1	35			
2	Rainwater harvesting techniques	1	50	Extn. functionaries		
3	Renewable energy use on farm	1	50			
4	Income generation activities	2	35	Anganwadi workers/ Mahila mandal/ sakhi mandal		
	Total	07	170			

G. Sponsored Training:

u. op	d. Sponsored Training.				
S.N.	Title of training	No. of Training	No. of Participant	Type of participant	
1	Integrated management of fall army warm in maize	1	45	PF	
2	Role of Trichoderma, Beauveria, bossiana and metarhium anisoplie and its uses	1	55	PF	
3	Scientific production of kharif crops	1	60	PF	
4	Use of mass media	1	35	PF	
5	Organic farming	1	35	PF	
6	Entrepreneurship development	1	35	FW	
7	Use of soil health card	1	35	PF	

8	Value addition	1	50	FW
9	Micro Irrigation System Maintenance	1	45	PF
10	Value addition of fruits and vegetables	2	90	FW
11	Natural Farming	4	125	PF/FW
	Total	15	610	

The 15 training courses will be organizing with the 610 participant's by the collaboration with the different agency like NGO and Agro dealer in different subjects.

H. Summary of Training Programmes:

S. N.	Subject	On campus	Off Campus	Total
1	Home Science	06	8	14
2	Horticulture	05	3	8
3	Crop Production	06	7	13
4	Plant Protection	04	5	9
5	Extension Education	04	5	9
6	Agriculture Engineering	05	7	12
7	Rural Youth training	3	2	5
8	Vocational training	3	0	3
9	In service Training	04	0	4
10	Sponsored Training	12	03	15
	Total	52	40	92

During the year January 2022- December 2022, 52 on campus and 40 off campus training programmes will be organized in different subjects for the Farming community by the KVK, Amreli.

2. Extension activity:

S. N.	Activity	Proposed No.
1	Field day	30
2	Kisan Gosthi	16
3	Radio talk	As maximum and required
4	TV show	As maximum and required
5	Khedut shibir	15
6	News paper coverage	As maximum and required
7	Diagnostic service	As maximum and required
8	Advisory service	As maximum and required
9	Popular articles	9
10	Extension Literature	6
11	Celebration of Important day	8

3. Front Line Demonstration (Proposed)

Sr. No	Crop/Input	Variety/Technology	Title	No of Demons.	Area (ha)		
		Kharif-2	2022				
1	Castor	GCH-7/9	Varietal Evaluation	10	4		
2	Cotton	Gujarat Cotton Hybride-24 (BG-II)	/ Variatal Higalijation		4		
	Total		20	8			
	Rabi – 2022-23						
1	Wheat	GADW-3	Varietal Evaluation	10	4		
2	Coriander	GC-1/2/3	Varietal Evaluation	10	4		
3	Isabgol	Gujarat isabgol-3/4	Varietal Evaluation	5	2		
4	Cucumber / sweet melon/ chilli/tomato	Plastic mulch	Resource conservation	10	4		
	Total 35 14						
		Summer-	2022				
1	Sesame	GT-3/ GJT-5	Varietal Evaluation	10	4		
2	Black gram	Guj. Urd-2	Varietal Evaluation	10	4		
3	Green gram	GM-4/ GAM-5	Varietal Evaluation	10	4		
			Total	30	12		
		Farm implements	s/Enterprises				
1	Agricultural Engineering (Farm Machinery	Reaper	Farm Mechanization	10	4		
2	Agricultural Engineering (Renewable Energ	Biomass	Renewable Energy	5	-		
			Total	15	4		
			GT	100	38		

During the year 2021-22, 120 FLD are planned to organized covering 48 hectare area for the Farming community by the KVK, Amreli.

4. ON FARM TESTING:

OFT - 1: Agronomy (New)

- 1) Title of technology: Effect of nano urea on growth and yield of wheat
- **2) Problem Diagnosed/Defined:** Farmers use more nitrogen, So the price of nitrogen increases. Nano urea is the best option to reduce the cost.

Detail of technologies selected for assessment

(1) Crop : Wheat

(2) Season/Year : Rabi 2022-23 to Rabi 2024-25

T1:(Farmers' practices)	1. Use only DAP and Urea in various dose (Farmers
	Practices)
T2 :(Recommended Practice)	2.120-60-60 NPK kg/ha (Recommended Practices)
T3:(Intervention)	3.60-60-60 NPK kg/ha+ Nanourea @ 0.5% at 1st spray at
	active tillering / branching stageand 2nd spray 20-25 days
	after 1st spray (Intervention)
	Note –Basal dose as per fertilizer recommendation. Reduced
	only top-dressed Urea applied in 2-3 splits.

(3) Number of replication/farmers : 05
 (4) Source of technology : IFFCO
 (5) Production system thematic area : Irrigated

(6) Thematic area : Nutrient Management

(7) Cost : 2400 (8) Indicator/parameter : BC ratio

OFT -2: Agronomy (Ongoing)

1) Title of technology: High Density Planting in Cotton

2) Problem Diagnosed/Defined: Farmers do not adopt closer planting, there for get low cotton yield due to less soil moisture and incidence of pest and disease.

Detail of technologies selected for assessment/refinement

(1) Crop : Cotton

(2) Season/Year : Kharif 2020-21 to 2022-2023

T1: (Farmers' practices)	120 X 45-60 cm (18519-13888 plants/ha)
T2: (Recommended Practice)	90 X 30 cm (37037 plants/ha) (Var. GTHH-49 (bt)
T3: (Intervention)	T2 + De-topping at 75 DAS (Var. GTHH-49 (bt))

(3) Number of replication : 03

(5) Source of technology : Cotton Research Station, JAU, Junagadh

(6) Production system thematic area : Rainfed Farming

(7) Thematic area : Closure Planting method

(9) Cost : 4800

OFT - 3: Plant Protection (Ongoing)

Title: Management of leaf Webber in Sesame

Problem Diagnosed / Defined: Injudicious use of pesticides Details of technologies selected for assessment/refinement:

(1) Crop : Sesame

(2) Season/ Year : Kharif -2019-20 to Kharif -2021-22

(3) Spacing : $120 \times 45 \text{ cm}$

	-) - F	
T_1	Farmer practices	1.High dose and Use of conventional Chemical pesticides
		(Farmers Practices)
T ₂	Assessment/refined	2. Two sprays of lamda cyhalothrin 5 EC 0.005% (10 ml/10 lit.

Practices	water) or emamectin benzoate 5 SG 0.0035% (7g/10 lit. water)
	and 2nd spray at 15 days after 1st spray)

(4) Number of replication :03
 (5) Source of technology : ARS, Amreli
 (6) Production system thematic area : Rainfed Farming

(7) Thematic area: IPM(8) Total Cost: Rs 4500

(9) Indicator : 1. Record No. of Larva per Plant /1mt. row length

2. Yield data

OFT -4: Plant Protection (Ongoing)

Title: Management of white grub in Groundnut

Problem Diagnosed / Defined: No seed treatment & Soil application of bio pesticides

Details of technologies selected for assessment/refinement:

(1)Crop : Groundnut

(2) Season/ Year : Kharif -2019-20 to Kharif -2021-22

(3) Spacing : 45×10

T_1	Farmer practices	No seed treatment & Soil application of bio pesticides
T_2		Seed treatment with Chlorpyrifos 20 EC @ 25 ml/kg seed
	Assessment/refined	and Soil application of Metarhizium anisopliae 1.15 WP @ 5
	Practices	kg/ha along with Castor cake (300 kg/ha) before sowing and
		drenching in plant row after 30 days of germination

(4) Number of replication : 03

(5) Source of technology : Dept. of Entomology, COA, JAU, Junagadh

(6) Production system thematic area : Rainfed Farming

(7) Thematic area : IPM (8) Total Cost : Rs. 6000

(9) Indicator : 1. Record No. of Larva per Plant /1mt. row

length 2. Yield data

OFT -5: Agricultural Engineering (Ongoing)

a Title : Effect of Packaging material on seed quality of

groundnut seeds.

b Problem Diagnose : Farmers do not store groundnut seed properly.

c Treatments

h

T1- Farmers' practice : Loose heap storage (farmer practices)

T2-Recommended Technology : Use of Purdue Improved Crop Storage (PICS)

bags for storage

(Recommended Practices)

d Number of replication : 05

e Source of Technology : JAU Recommendation and interaction with

scientists

g Thematic area : Storage techniques

Critical Input : 1 PICS bag

i Unit Cost : 500 j Total Cost : 2500 17th SAC Meeting, 2022

k Duration of project : 3 year

Indicator/Parameter : Insect Infestation, C:B ratio

OFT -6: Agricultural Engineering (Ongoing)

a Title : Effect of plastic mulch on yield of watermelon.

b Problem Diagnose : Low yield potential of watermelon.

c Treatments

T1- Farmers' practice : No mulch

T2-Recommended Technology : Silver Black Plastic Mulch (20 micron) under

drip irrigation system

: Wheat straw mulch

T3-Technology assessed or

Refined

d Number of replication : 03

e Source of Technology : Dept. of Renewable Energy and Rural Engg.,

CAET, JAU, Junagadh

f Thematic area : Plastic in Agriculture

g Critical Input : $20\mu m$ silver black plastic mulch

h Unit Cost : 7000 i Total Cost : Rs. 21000 j Duration of project : 3 year

Indicator/Parameter : Yield, Per fruit weight, C:B ratio

OFT -7: Home Science (New)

a Title : Preservation techniques of different pulses with

organic methods

b Problem Diagnose : Lack of knowledge

c Treatments

T1-T2-Use of Neem leavesUse of Castor oilT3-Use of airtight bag

d Number of replication : 10

e Source of Technology : IRRI-2011

f Thematic area : Preservation techniques

g Critical Input : Neem leaves

Castor oil
Airtight bag

h. Qty per trial

Neem leaves 50 gm. dry leaves 1 gm food grain
Castor oil 1kg. castor oil/1 Kg food grain
Airtight bag 2 kg. bag/1 Kg food grain

i Unit Cost : Rs. 1000 j Total Cost : Rs. 10,000 k Duration of project : 6 month

Indicator/Parameter : Quality of stored grain, damage percentages

OFT 8: Home Science (New)

a Title : Nutritional deficiency and poor health status of

child

b Problem Diagnose : Assessment of Drum stick leaves powder as

nutritional supplement in 6 month-5 years old

child

c Treatments

T1- : Daily existing normal food

T2- : Moringa pods as vegetable and leaf powder/ 5gm/

day and fruits / 50gm/ day as supplement

d Number of replication : 10 e Source of Technology : Local

> Dept. of Health, Govt. of Gujarat Nutritional Security and malnutrition

f Thematic area : Nutritional Security and m g Critical Input : Leaf powder and fruits

i Unit Cost : Rs. 1200 h Total Cost : Rs. 10,000 j Duration of project : 6 month

Qty per trial : 900 gm & 9 kg/ child

k Indicator/Parameter : Body weight, Height and HB Level

5. Seeds to be produced:

S. No.	Name of crop	Season	Area (ha)	Variety	Type of Produce
1	Groundnut	Kharif (2022)	12	GJG-22	Foundation
2	Wheat	Rabi (2022-23)	1	GW-463	TF
3 Gram Rab		Rabi (2022-23)	0.5	GG-5	TF

6. Additional Activities Planned including sponsored projects schemes during 2022-23

S.N	Name of the agency	Name of activity	Technical programme with quantification			Financial outlay	Names of the team	
	/ scheme		Name of crop	Variety	Area (ha)	No. of FLD	(Rs.)	members involved
1	Agricultural Technology	FLD, Trainings	Gram	GJG-5	25	6.25	050000	
	Information Centre	_	Gram	IDPM	25	6.25		Senior Scientist
	(ATIC)		Onion	IDM	10	2.5		
			Wheat	GW-463	25	6.25	850000	and all discipline
			Groundnut	IPM (Metarhizi um, Beauveria,	20	5		Scientists

				Azadirecht in				
				chloropyri phos				
				IPM (Cotton				
			Cotton	Inputs Beauveria, Azadirecht in, Pheromone trap)	20	5		
			Cotton	MDT tube	10	2.5		
			Groundnut	GJG-32/22	20	5		
			Sesame	GT-4/GT-6	10	2.5		
				Total	165	41.25		
2	Cluster base FLD of Rabi Pulses	FLD, Trainings, Field day	Pigeon pea	GJP-1	20	50		
	under NFSM		Gram	GJG-6	20	50	283610	Senior Scientist
				Total	40	100		and all
3	National Mission on Oilseeds and Oil Palm (NMOOP)	FLD, Trainings, Field day	Groundnut	GJG- 22/32	20	50	370000	discipline Scientists
				Total	40	100		
4	Kitchen Gardening (Home Science)	FLD Training Field day	Vegetable kit	Vegetable kit	00	200	40000	Senior Scientist and all discipline
1								Scientists