ICAR-ATARI, Pune
ANNUAL ACTION PLAN OF KVKs DURING 2021
(1st January to 31st December, 2021)

1. GENERAL INFORMATION ABOUT THE KVK

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

Address with PIN code	Telephone		E mail	Website address
Senior Scientist and Head Krishi Vigyan Kendra, Junagadh Agricultural University, Keriya Road, Model farm, Amreli (Gujarat)-365601	Office 02792 227122	FAX 02792 227122	kvkamreli@gmail.com	www.jau.in

1.2. Name and address of host organization with phone, fax and e-mail (Not of KVK)

Address with PIN code	Telephone		E mail	Website address
	Office	FAX		
Junagadh Agricultural University, Agril. Campus, Motibaugh, Junagadh-362001 (Gujarat)	0285 2672080-90	0285 2672004 2672653	-----	www.jau.in

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

Name	Telephone / Contact		
	Office	Mobile	Email
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

& type of host organization: SAU

1.5. Staff Position (as on 31st December, 2020)

Sl. No.	Sanctioned post	Name of the incumbent	Discipline	If Permanent, please indicate		Date of joining	If Temporary, pl. indicate the consolidated amount paid (Rs. /month)
				Current Pay Band	Current Grade Pay		
1.	Senior Scientist and Head	Dr. N. S. Joshi	Programme Coordinator	15600-39100 G.P. 8000	24170	24/03/2015	
2.	Subject Matter Specialist	Er. P. S. Jayswal	Subject Matter Specialist	15600-39100 G.P. 6000	24140	10/09/2012	
3.	Subject Matter Specialist	Dr. N. Tiwari	Subject Matter Specialist	15600-39100 G.P. 6000	19050	01/04/2013	
4.	Subject Matter Specialist	Mr. P. J. Prajapati	Subject Matter Specialist	15600-39100 G.P. 6000	16920	31/03/2015	
5.	Subject Matter Specialist	Mr. V. S.Parmar	Subject Matter Specialist	15600-39100 G.P. 6000	16920	12/05/2016	
6.	Subject Matter Specialist	Mr. N. M. Kachhadiya	Subject Matter Specialist	15600-39100 G.P. 6000	-	-	
7.	Subject Matter Specialist	Vacant	Subject Matter Specialist	-	-	-	
8.	Programme Assistant	Ms. K. K Gadhiya	Programme Assistant	09300-34800	-	30/07/2018	
9.	Computer Programmer	Shri S .N. Joshi	Computer Programmer	39900-126600	44900	01/07/2010	
10.	Farm Manager	Mr. S. G Baria	Farm Manager	09300-34800	-	30/07/2018	
11.	Accountant/Superitendent	Shri H. J. Ravaliya	Office Superintendent cum Accountant	39900-126600	44900	01/12/2011	
12.	Stenographer	Vacant	Stenographer	-	-	-	
13.	Driver 1	Out sourcing	Driver	-	-	-	
14.	Driver 2	Out sourcing	Driver	-	-	-	
15.	Supporting staff 1	Out sourcing	Supporting staff		-	-	
16.	Supporting staff 2	Vacant	Supporting staff	-	-	-	

1.6. Total land with KVK (in ha):

S. No.	Item	Area (ha)
1	Under Buildings	3.00
2.	Under Demonstration Units	1.00
3.	Under Crops	13.47
4.	Horticulture	0.50
5.	Pond	1.0
6.	Others if any	0.53
	Total	**20**

1.7. Infrastructural Development:

A. Buildings

S. No.	Name of building	Source of funding	Stage			
			Complete			Incomplete
			Completion Year	Plinth area (Sq. m)	Expenditure (Rs.)	
1.	Administrative Building	ICAR	2008	500	3190000	NIL
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	-	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.	Vermicompost unit	ICAR	2016	45	73640	
16.	Administrative building (Renovation)	ICAR	2017	-	300000	
17.	Farm Wall	ICAR	2017	-	282554	

B. Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total km Run	Present status
M&M, Bolero XL	2006	4,86,500	301190	Condition is not good
Tractor	2005	3,80,000	---	Condition is not good

Motor Cycle	2010	42,831	17805	Working condition
Power Tiller with implements	2011	1,42,000	---	Working condition
Mini Tractor with implements	2014	3,74,820	---	Working condition
M&M, Bolero XL	2020	7,81,025	14243	Working condition

C. Equipments& AV aids

Name of the equipment / Implements	Year of purchase	Cost (Rs.)	Present status
Digital camera	2008-09	11070	Working condition
Air assisted blast type sprayer	2008-09	98750	Working condition
Vacuum cleaner, RO, water cooler	2008-09	41780	Working condition
Samsung A/C, Nos.-2	2008-09	47300	Working condition
Fax machine	2008-09	17500	Working condition
LCD projector	2008-09	98799	Working condition
Winnowing fan	2008-09	8500	Working condition
Chaff cutter	2008-09	30188	Working condition
Plasma TV, Nos.-2 (21 and 52”)	2008-09	139952	Working condition
Cotton stock shredder-Nos.-3	2008-09	363000	Working condition
Spiral binding machine	2008-09	9090	Working condition
Rotavator with cultivator, Nos.-2	2008-09	180000	Working condition
Inverter	2008-09	19800	Working condition
Manually operated seed dressing drum	2008-09	20930	Working condition
Exhibition display	2008-09	39974	Working condition
Decorticator groundnut machine	2008-09	98850	Working condition
Cotton shredder, Nos.-2	2008-09	242000	Working condition
Battery operated sprayer	2008-09	4940	Working condition
Aspee knapsack sprayer	2008-09	7400	Working condition
Bullock drawn pipe farm seed drill	2008-09	161000	Working condition
Zero till drill	2008-09	66725	Working condition
Bullock drawn clod breaker	2008-09	52000	Working condition
Tractor operated groundnut digger	2008-09	235500	Working condition
Multipurpose thresher (engine operated)	2008-09	114000	Working condition
Mobile seed processing unit	2008-09	1685000	Working condition
Electronic balance	2008-09	19425	Working condition
Power generated	2008-09	49500	Working condition
RO system	2008-09	24450	Working condition
Air condition Nos.-2	2008-09	51580	Working condition
Air condition, Nos.-3	2008-09	89970	Working condition
Photo copier	2008-09	124000	Working condition
LCD and accessories	2008-09	103912	Working condition
Oven and freeze	2008-09	30605	Working condition
Tractor drawn harrow cum cultivator	2008-09	75000	Working condition
Planter	2008-09	44000	Working condition

Rotavator	2008-09	96000	Working condition
Laptop	2008-09	47500	Working condition
Pipe frame blade harrow piece	2008-09	11000	Working condition
Solar equipments	2008-09	81830	Working condition
Gas connection for lab.	2009-10	9700	Working condition
Digital Sony Camera	2009-10	24750	Working condition
Post Whole Digger	2009-10	38000	Working condition
Motor, 1 Hp	2009-10	8650	Working condition
Power Generator	2009-10	45576	Working condition
Multi Crop thresher	2010-11	38000	Working condition
BOD incubator	2010-11	75863	Working condition
Compound light microscope	2010-11	90851	Working condition
Motor 7.5 Hp	2010-11	28600	Working condition
Motor 5 Hp	2010-11	17000	Working condition
Desktop Computer	2010-11	34810	Working condition
Hot air Oven	2010-11	15215	Working condition
Hot plate	2010-11	4725	Working condition
Physical Balance	2010-11	3623	Working condition
Refrigerator	2010-11	19200	Working condition
PH meter	2010-11	3990	Working condition
Conductivity bridge	2010-11	9450	Working condition
Chemical Balance	2010-11	45066	Working condition
Shaker-2 no.	2010-11	49000	Working condition
Flame Photometer	2010-11	44887	Working condition
Spectrophotometer	2010-11	39480	Working condition
Water Distillation Still	2010-11	157500	Working condition
Seed Drill	2010-11	27500	Working condition
Winnower	2010-11	37000	Working condition
Disc Plow	2012-13	30400	Working condition
Disc Harrow	2012-13	37500	Working condition
Nine tine Cultivator	2012-13	19600	Working condition
PC with Accessories (2 No.)	2013-14	65970	Working condition
Printer (2 No.)	2013-14	13898	Working condition
Scanner	2013-14	4309	Working condition
PC with Accessories (2 No.)	2015-16	77590	Working condition
Printer	2015-16	11900	Working condition
Rotavator (NICRA)	2015-16	70000	Working condition
Mobile shredder(NICRA)	2015-16	146000	Working condition
Chaff cutter(NICRA)	2015-16	57000	Working condition
Multi crop thresher(NICRA)	2015-16	155000	Working condition
Rear mounted reaper (NICRA)	2015-16	95000	Working condition
Digital Camera	2016-17	14400	Working condition
Desktop Computer	2016-17	34115	Working condition
Printer	2016-17	12546	Working condition
Automatic seed cum fertilizer drill(NICRA)	2016-17	66412	Working condition
Dibbler (03 nos.)	2016-17	6000	Working condition
Seed dressing drum (5 nos.) (NICRA)	2016-17	15000	Working condition
Rotavator (NICRA)	2016-17	89040	Working condition

Bund former (NICRA)	2016-17	13650	Working condition
Air conditioner (02 nos.)	2016-17	79980	Working condition
Desktop Computer	2016-17	34115	Working condition
Photo copier	2016-17	144391	Working condition
Integrated community computer	2016-17	110644	Working condition
Multi crop thresher	2017-18	187040	Working condition
Computer with UPS	2017-18	42889	Working condition
Computer with UPS (2 Nos.)	2018-19	88400	Working condition
Printer	2018-19	11416	Working condition

1.8. Details of SAC meetings to be conducted in the year

Sl.No.	Particulars	Proposed date of meeting
1	Scientific Advisory Committee – Meeting 1	02/02/2021

2. DETAILS OF JURISDICTION AREA UNDER KVK (No. of talukas): 11

2.1. Major farming systems/enterprises (based on the analysis made by the KVK)

S. No	Farming system/enterprise
1	Dry Farming
2	Rainfed : Cotton, Groundnut, Sesame, Black gram, Green gram, Mango, Onion
3	Agriculture – Horticulture (Mango)
4	Agriculture – Dairy
5	Agriculture – Fisheries
6	Cotton based cropping system
7	Groundnut based cropping system
8	Sesame based cropping system
9	Enterprise: Poultry, Fishery, Dairy, Sericulture, Vermicompost

2.2. Description of Agro-climatic Zone & major agro ecological situations (based on soil and topography)

a. Soil type

Sl. No.	Agro-climatic Zone	Characteristics
1	North Saurashtra Agro climatic Zone VI	Medium black soil, coastal alluvial soil, rocky soil and alkaline soil The climate of the district varies from moderately hot throughout the year except in winter. The climate is humid along with the coastal belt. The temperature varies from 8.01° Celsius in January to 43.7° Celsius in May. The average rainfall of last three years is 706 mm.

b. Topography

S. No.	Agro ecological situation	Characteristics
1	Medium black soil with 400-700 mm rainfall	-
2	Shallow black soil with 600-700 mm rainfall	-
3	Saline - alkali (Heavy texture) soil with 500-600 mm rainfall	Saline groundwater

2.3. Soil Types

S. No	Soil type	Characteristics
1	Medium black	Major portion of the district is covered by the medium black soil, which is considered very productive. It is rich in lime, magnesia and alumina but poor in phosphorus, nitrogen and organic matters. It can retain considerable moisture and is much suitable for agriculture.
2	Coastal alluvial	The coastal alluvial soil is found on the coastal areas of Jafrabad and Rajula. Among the whole of the coastal areas, the land is sandy. However, the soils in Rajula and Jafrabad are less productive as they are saline. The soils in the northern part of the district including Babra and parts of Kunkavav Vadia and Dhari talukas are shallow and rocky. Certain areas in Amreli taluka known as Kharapat are poor in cultivation; but this taluka possesses the best land along the north and the south banks of the Shetrunji.
3	Rocky soils	The soil of Dhari taluka is lighter and near the Gir forest redder. The soil on the southern part of the district is light in colour with only few fertile gradients, and in many places, it is rocky and barren.

2.4. Area, Production and Productivity of major crops cultivated in the district (Ref. Year 2019-20)

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

S. No	Crop	Area (ha)	Production (MT)	Productivity (Q/ha)
1	Green gram	2702	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	Soyabean	357	275	7.69
17	Sugarcan	57	3928	689.12

Source: District wise Area, Production and Yield of Important Food & Non-food crops in Gujarat State Year: 2019-20 https://dag.gujarat.gov.in/

2.5. Weather data (2020)

Month	Rainfall (mm)	Temperature ℃		Relative Humidity (%)	
		Maximum	Minimum	Maximum	Minimum
January	0.0	26.7	11.4	76.6	33.8
February	0.0	32.6	14.9	59.1	23.3
March	0.0	34.7	17.9	70.8	23.0
April	0.0	40.5	24.4	62.8	19.1
May	0.0	41.6	26.5	72.9	21.7
June	183.2	35.3	25.5	87.9	59.9
July	166.0	33.3	25.8	89.8	70.5
August	521.7	30.6	24.9	91.8	80.4
September	123.5	33.3	24.7	91.1	61.1
October	1.8	35.6	23.6	77.7	37.3
November	0	32.6	16.7	63.0	26.0
December	0	29.5	14.3	70.1	32.9
Total	**996.2**				

2.6. Production and productivity of livestock, Poultry, Fisheries etc. in the district (Ref. Year 2019-20)

Category	Population	Production '000Tones	Productivity
Cattle			
Crossbred	3400	9.22	8.659 kg/day
Indigenous	121300	148.43	4.747 kg/day
Buffalo	146200	199.79	5.229 kg/day
Sheep	130800	168.74 MT	1.472 kg/sheep
Goats	163500	11.33	0.468 kg/day
Poultry			
Hens	00	00	00
Desi	8200	4.99 lakh	113.95/season/year/layer
Category		Production (Q.)	Productivity
Fish (Reservoir)	---	---	---

2.7. Details of Operational area / Villages

Name of Taluka	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
Liliya	Hathigadh	Groundnut, Cotton, Sesamum, Wheat, Cumin, Chickpea, Garlic, Onion, Mango, lemon Enterprises are dairy business, vermi composting,	Heavy infestation of sucking pest in cotton, Sesame leaf blight, Stem rot disease in Groundnut, Mango Malformation, Less area under Horticultural crops.	*IPM and INM in major crops of this area, *Motivate the farmers for arid Horticultural Crops. *To create the awareness for grading, processing and marketing (value addition)
Amreli	Jasvantgadh			
Amreli	Randhiya			
Khambha	Ingorala			
Kukavav	Devgam			
Amreli	Rikadiya			
Babra	Kuvargadh			
Savarkundla	Ramgadh			
Savarkundla	Dhajda			
Babra	Jambarvada			
Kukavav	KhadKhad			
Bagasra	Rafala			
Babara	Sukhpar			
Dhari	Fachariya			
Lathi	Sekhpipariya			

2.8. Priority thrust areas:

3. TECHNICAL PROGRAMME

3.1. A. Details of targeted mandatory activities by KVK

OFT		FLD	
(1)		(2)	
Number of OFTs	Number of Farmers	Area (ha)	Number of Farmers
7	30	213.25	595

Training		Extension Activities	
(3)		(4)	
Number of Courses	Number of Participants	Number of activities	Number of participants
74	2835	220	12219

Seed Production (Qtl.)	Planting material (Nos.)	Livestock, poultry strains and Fish seed prod. (No's)	Soil, water and plant Samples
(5)	(6)	(7)	(8)
186	1500	00	100

3.1. B. Operational areas details proposed during 2021

S.No.	Major crops & enterprises being practiced in cluster villages	Prioritized problems in these crops/ enterprise	Extent of area (Ha/No.) affected by the	Names of Cluster Villages identified for intervention	Proposed Intervention (OFT, FLD, Training, extension activity etc.)*

			problem in the district		
1.	Groundnut, Cotton, Sesamum, Wheat, Cumin, Chickpea, Garlic, Onion, Mango, Lemon Enterprises are dairy business, Vermi composting	Heavy infestation of sucking pest in cotton, Sesame leaf blight, Stem rot disease in Groundnut, Mango Malformation, Less area under Horticultural crops	Every village of this district is facing problem	Hathigadh	• IPM and INM in major crops of this area, • Motivate the farmers for arid Horticultural crops. • To create the awareness for grading, processing and marketing (value addition) Various OFT, FLD, trainings, extension activities were carried out
2.				Jasvantgadh	
3.				Randhiya	
4.				Ingorala	
5.				Devgam	
6.				Rikadiya	
7.				Kuvargadh	
8.				Ramgadh	
9.				Dhajda	
10.				Jambarvada	
11.				KhadKhad	
12.				Rafala	
13.				Sukhpar	
14.				Fachariya	
15.				Sekhpipariya	

* Support with problem-cause and interventions diagram

3.2.Technologies to be assessed

A.1. Abstract on the number of technologies to be assessed in respect of **crops**

Thematic areas	**Cereals**	**Oilseeds**	**Pulses**	**Commercial Crops**	**Vegetables**	**Fruits**	**Flower**	**Plantation crops**	**Tuber Crops**	**TOTAL**
Varietal Evaluation		2	2	2	3					
Seed / Plant production										
Weed Management										
Integrated Crop Management										
Integrated Nutrient Management	1			1						

Integrated Farming System										
Mushroom cultivation										
Drudgery reduction										
Farm machineries										
Value addition										
Integrated Pest Management										
Integrated Disease Management				1						
Resource conservation technology		1				1				
Small Scale income generating enterprises										
TOTAL	**1**	**3**	**2**	**4**	**3**	**1**	**0**	**0**	**0**	**0**

A.2. Abstract on the number of technologies to be assessed in respect of livestock / enterprises-NIL

Thematic areas	**Cattle**	**Poultry**	**Sheep**	**Goat**	**Piggery**	**Wormiculture**	**Fisheries**	**TOTAL**
Evaluation of Breeds								
Nutrition Management								
Disease of Management								
Value Addition								
Production and Management								
Feed and Fodder								
Small Scale income generating enterprises								
TOTAL								

B. Details of On Farm Trials/ Technology Assessment proposed during 2021

S. No.	Crop/ enterprise	Prioritized problem	Title of OFT	Technology options	Source of Technology	Name of critical input	Qty per trial	Cost per trial (Rs)	No. of trials	Total cost for the intervention (Rs.)	Parameters to be studied	Team members
1	Wheat	Farmers do not use Zinc	Effect of zinc on growth and yield of wheat	1. Use only DAP and Urea in various dose (Farmers Practices) 2.120-60-60 NPK kg/ha (Recommended Practices) 3.120-60-60 NPK kg/ha+ZnSO4 @ 20 kg/ha as basal dose and foliar spray of ZnSO4 @ 0.5% at heading and milking stage (Intervention)	Main Dry Farming Research Station, JAU, Targhadia	Micro nutrient deficiency		800	05	3200	Yield	Senior Scientist and all discipline Scientists
2	Cotton	Farmers do not adopt closer	High Density Planting in Cotton	1. 120 X 45-60 cm (18519-	Cotton Research Station,	Closure Planting method		1200	3	4800	Yield	Senior Scientist and all

		planting, there for get low cotton yield due to less soil moisture and incidence of pest and disease.		13888 plants/ha)	JAU, Junagadh							discipline Scientists
				2. 90 X 30 cm (37037 plants/ha) (Var. GTHH-49 (bt)								
				3. T2 + De-topping at 75 DAS (Var. GTHH-49 (bt))								
3	Sesame	Injudicious use of pesticides	Management of leaf Webber in Sesame	1.High dose and Use of conventional Chemical pesticides (Farmers Practices)	ARS, Amreli	Bio-Pesticides & Pesticides		1500	3	4500	Yield	Senior Scientist and all discipline Scientists
				2. Two sprays of lamda cyhalothrin 5 EC 0.005% (10 ml/10 lit. water) or emamectin benzoate 5								

				SG 0.0035% (7g/10 lit. water) and 2nd spray at 15 days after 1st spray)								
4	Ground nut	No seed treatment & Soil application of bio pesticides	Management of white grub in Groundnut	1. No seed treatment & Soil application of bio pesticides 2. 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	Dept. of Entomology, COA, JAU, Junagadh	Bio-Pesticides & Pesticides		2000	3	6000	Yield	Senior Scientist and all discipline Scientists
5	Watermelon	Low	Effect of	1. No mulch	JAU,	20 µm			3	4500	Yield	Senior

		yield potential of watermelon	plastic mulch on yield of watermelon	(Farmers Practices) 2. Silver Black Plastic Mulch (20 micron) under drip irrigation system (Recommended Practices) 3. Wheat straw mulch	Junagadh	silver black plastic mulch		1500				Scientist and all discipline Scientists
6	Groundnut	Farmers do not store groundnut seed properly	Effect of Packaging material on seed quality of groundnut seeds.	1. Loose heap storage (farmer practices) 2. Use of Purdue Improved Crop Storage (PICS) bags for storage (Recommended Practices) 3.Polyethylene bags	Year 2019, Department of PFE, CAET, JAU, Junagadh	PICS bags	3	1500	5	7500	Insect Infestation, C:B ratio	Senior Scientist and all discipline Scientists
7	Children (3-6) years)	malnutrition	Problem of malnutrition among the age group of 3 to 6 year	1) Use of rise, pigeon pea, green grams, chickpea, Pomegranate,	WHO report 2017	Nutritional supplements for malnutrition		1200	8	6400	body weight, height of children	Senior Scientist and all discipline Scientist

				banana, potato, tomato (per child 100 gram & fruit 50 gram).								s
				2) Use of wheat flour + Ghee + Jaggery or til, Milk, carrots, rice, pigeon pea, green grams, Potato, tomato and green vegetables or Pomegranate. (per child 100 gram & fruit 50 gram)								
8.	Farm woman	Lack of knowledge	Preservation techniques of different pulses with organic methods	1. Use of Neem leaves	IRRI-2011	Neem leaves	50gm dry leaves/ 500gm food grain	-	05	4000/-	Quality of stored grain, damage percentages	Senior Scientist and all discipline Scientists
				2. Use of Castor oil		Castor oil	1kg casto roil/ 100K					

							g food grain					
				3. Use of pro super bag		Super bag	-					

3.3. Frontline Demonstrations

A. Details of FLDs to be organized (Oilseeeds, pulses, cereals, cotton, commercial crops, horticulture crops, vegetables, spices and condiments, fodder crops, etc)

Sl. No.	Crop	Variety	Thematic area	Technology for demonstration	Critical inputs with cost (Rs.)	Season and year	Area (ha)	No. of farmers/ demon.	Parameters identified
1	Castor	GCH-7/9	Varietal Evaluation	Variety	Seed	Kharif 2021	4	10	Yield
2	Cotton	INM	INM	INM	Seed		4	10	Yield
3	Brinjal	Gujarat Round Brinjal-5/7	Varietal Evaluation	Variety	Seed		2	5	Yield
4	Ridge Gourd	Gujarat Ridge Gourd – 2	Varietal Evaluation	Variety	Seed		2	5	Yield
5	Wheat	INM	INM	INM	Nutrient	Rabi-2021	4	10	Yield
6	Cumin	IDM	IDM	IDM	Bio-agent/Fungicide		4	10	Yield
7	Coriander	GC-1/2	Varietal Evaluation	Variety	Seed		4	10	Yield
8	Tomato	Gujarat Tomato-6	Varietal Evaluation	Variety	Seed		2	5	Yield
9.	Isabgol	Gujarat isabgol-3/4	Varietal Evaluation	Variety	Seed		2	5	Yield
10.	Cucumber / sweet melon/ chilli	Plastic mulch	Resource conservation	Resource conservation	Seed		4	10	Yield
11.	Chickpea	-	Irrigation method	Irrigation method	Seed		4	10	Yield

12.	Sesame	GT-3/ GJT-5	Varietal Evaluation	Variety	Seed	Summer 21	4	10	Yield
13.	Black gram	Guj. Urd-2	Varietal Evaluation	Variety	Seed		4	10	Yield
14.	Green gram	GM-4/ GAM-5	Varietal Evaluation	Variety	Seed		4	10	Yield
					Total		**48**	**120**	

Sponsored Demonstrations (CFLDs on O & P/Others)

S. No.	Crop	Variety	Season and Year	Area (ha)	No. of farmers
1.	**Agricultural Technology Information Centre (ATIC)**				
	Cotton	GTHH-49	Kharif 2021	2.5	10
	Groundnut	GJG-22/32		5	20
	Seasame	GT-4, GT-3		4	10
	Cotton	IPM		5	20
	Groundnut	IPM		5	20
	Cotton	MDT tube		2.5	10
	Onion	IDPM		2.5	10
	Wheat	GJW-463/GW-451	Rabi 2021	6.25	25
	Gram	GJG-3/GG-5/GJG-6		6.25	25
	Gram	IDPM		6.25	25
			Total	**45.25**	**175**
2.	**National Initiative on Climate Resilient Agriculture (NICRA)**				
	Green gram	GAM-5/ GM-4	Kharif 2021	02	05
	Groundnut	GJG-22/32		04	10
	Seasame	GT-4		08	20
	Cotton	IPM		04	10
	Soyabean	JS 335 or Co3		02	05
	Wheat	GW-173/499/463/366	Rabi 2021	04	10
	Gram	GJG-3		04	10
	Sorghum	GFS-5/6		04	10
	Lucern	Anand-2/3		04	10
	Bajra	GFB–1		04	10
			Total	**40**	**100**
3.	**Cluster base FLD of Rabi Pulses under NFSM**				
	Pigeon pea	GJP-1	Kharif 2021	20	50
	Gram	GJG-6	Rabi 2021	20	50
			Total	**40**	**100**
4.	**National Mission on Oilseeds and Oil Palm (NMOOP)**				
	Groundnut	GJG-22/32	Kharif 2021	20	50
	Sesame	GT-4/GT-3		20	50
			Total	**40**	**100**

B. Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	15	During particulars Season	200
2	Farmers Training	16		350
3	Media coverage	-		-
4	Training for extension functionaries	6		150

C. Details of FLD on Enterprises

a. Farm Implements

Name of the implement	Crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators
Cotton shredder	Cotton	2021-22	10	4	Cotton shredder	Field capacity

b. Livestock and Fisheries Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators
NIL					

c. Other Enterprises (Mushroom, Apiculture, Sericulture, Vermicompost, Value Addition, Women empowerment, etc)-

Enterprise	Technology demonstrated	No. of farmers	No. of units	Critical inputs	Performance parameters / indicators
NIL					

3.4. Training (Including the sponsored and FLD training programmes):

A. ON Campus

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I Crop Production								
Weed Management								
Resource Conservation Technologies	1	25	00	25	10	00	10	35
Cropping Systems	2	50	00	50	20	00	20	70
Crop Diversification								
Integrated Farming								
Water management								
Seed production								

Nursery management								
Integrated Crop Management	1	25	00	25	10	00	10	35
Fodder production								
Production of organic inputs	2	50	00	50	20	00	20	70
II Horticulture								
a) Vegetable Crops								
Production of low volume and high value crops								
Off-season vegetables								
Nursery raising	1	25	00	25	10	00	10	35
Exotic vegetables like Broccoli								
Export potential vegetables								
Grading and standardization								
Protective cultivation (Green Houses, Shade Net etc.)								
b) Fruits								
Training and Pruning								
Layout and Management of Orchards								
Cultivation of Fruit	1	25	00	25	10	00	10	35
Management of young plants/orchards								
Rejuvenation of old orchards								
Export potential fruits								
Micro irrigation systems of orchards								
Plant propagation techniques								
c) Ornamental Plants								
Nursery Management	1	25	00	25	10	00	10	35
Management of potted plants								
Export potential of ornamental plants								
Propagation techniques of Ornamental Plants								
d) Plantation crops								
Production and Management technology	1	25	00	25	10	00	10	35
Processing and value addition	1	25	00	25	10	00	10	35
e) Tuber crops								
Production and Management technology								
Processing and value addition								
f) Spices								
Production and Management technology								
Processing and value addition								
g) Medicinal and Aromatic Plants								
Nursery management								
Production and management technology								
Post harvest technology and value addition								
III Soil Health and Fertility Management								
Soil fertility management								
Soil and Water Conservation								
Integrated Nutrient Management								
Production and use of organic inputs								
Management of Problematic soils								
Micro nutrient deficiency in crops								

Nutrient Use Efficiency								
Soil and Water Testing								
IV Livestock Production and Management								
Dairy Management								
Poultry Management								
Piggery Management								
Rabbit Management/goat								
Disease Management								
Feed management								
Production of quality animal products								
V Home Science/Women empowerment								
Household food security by kitchen gardening and nutrition gardening	1	00	30	30	00	05	05	35
Design and development of low/minimum cost diet								
Designing and development for high nutrient efficiency diet								
Minimization of nutrient loss in processing								
Gender mainstreaming through SHGs								
Storage loss minimization techniques								
Value addition	1	00	30	30	00	05	05	35
Income generation activities for empowerment of rural Women	1	00	30	30	00	05	05	35
Location specific drudgery reduction technologies	1	00	30	30	00	05	05	35
Rural Crafts	1	00	30	30	00	05	05	35
Women and child care								
VI Agril. Engineering								
Installation and maintenance of micro irrigation systems	1	15	10	25	05	05	10	35
Use of greenhouse and net house for seed production	1	15	10	25	05	05	10	35
Soil & Water Conservation technologies	1	15	10	25	05	05	10	35
Groundwater recharge techniques	1	15	10	25	05	05	10	35
Importance of drainage in agricultural field	1	15	10	25	05	05	10	35
Farm machineries for farm women	1	15	10	25	05	05	10	35
Machineries and small tools for horticultural crops	1	15	10	25	05	05	10	35
Post harvest technology and small scale value addition	1	15	10	25	05	05	10	35
VII Plant Protection								
Integrated Pest Management	1	25	00	25	10	00	10	35
Integrated Disease Management	1	25	00	25	10	00	10	35
Bio-control of pests and diseases	1	25	00	25	10	00	10	35
Production of bio control agents and bio pesticides	1	25	00	25	10	00	10	35
VIII Fisheries								
Integrated fish farming								
Carp breeding and hatchery management								

Carp fry and fingerling rearing								
Composite fish culture								
Hatchery management and culture of freshwater prawn								
Breeding and culture of ornamental fishes								
Portable plastic carp hatchery								
Pen culture of fish and prawn								
Shrimp farming								
Edible oyster farming								
Pearl culture								
Fish processing and value addition								
IX Production of Inputs at site								
Seed Production								
Planting material production								
Bio-agents production								
Bio-pesticides production								
Bio-fertilizer production								
Vermi-compost production								
Organic manures production								
Production of fry and fingerlings								
Production of Bee-colonies and wax sheets								
Small tools and implements								
Production of livestock feed and fodder								
Production of Fish feed								
X Capacity Building and Group Dynamics								
Leadership development								
Group dynamics								
Formation and Management of SHGs								
Mobilization of social capital								
Entrepreneurial development of farmers/youths	1	25	00	25	10	00	10	35
WTO and IPR issues		25	00	25	10	00	10	
Awareness regarding organic farming	1	25	00	25	10	00	10	35
Upgrade the knowledge of farmers about ICT	1	25	00	25	10	00	10	35
Upgrade the knowledge about new varieties of *rabi* crops and its cultivation practices	1	25	00	25	10	00	10	35
XI Agro-forestry								
Production technologies								
Nursery management								
Integrated Farming Systems								
XII Others (Pl. Specify)								
TOTAL	32	595	230	825	230	65	295	1120
(B) RURAL YOUTH								
Mushroom Production								
Bee-keeping								
Integrated farming								
Seed production								

Production of organic inputs								
Integrated Farming (Medicinal)								
Planting material production								
Vermi-culture	1	10	05	15	05	05	10	25
Sericulture								
Protected cultivation of vegetable crops								
Commercial fruit production								
Repair and maintenance of farm machinery and implements								
Nursery Management of Horticulture crops								
Training and pruning of orchards								
Value addition	1	10	05	15	05	05	10	25
Production of quality animal products								
Dairying								
Sheep and goat rearing								
Quail farming								
Piggery								
Rabbit farming								
Poultry production								
Ornamental fisheries								
Para vets								
Para extension workers								
Composite fish culture								
Freshwater prawn culture								
Shrimp farming								
Pearl culture								
Cold water fisheries								
Fish harvest and processing technology								
Fry and fingerling rearing								
Small scale processing								
Post Harvest Technology								
Tailoring and Stitching								
Rural Crafts								
Procedure for organic farming certification	1	10	05	15	05	05	10	25
Plant Protection Appliances/ Equipments	1	10	05	15	05	05	10	25
Income generation activities	1	10	05	15	05	05	10	25
TOTAL	**5**	**50**	**25**	**75**	**25**	**25**	**50**	**125**
(C) Extension Personnel								
Productivity enhancement in field crops								
Integrated Pest Management								
Integrated Nutrient management								
Rejuvenation of old orchards								
Protected cultivation technology								
Formation and Management of SHGs								
Group Dynamics and farmers organization								
Information networking among farmers								
Capacity building for ICT application								
Care and maintenance of farm machinery and implements								

WTO and IPR issues								
Management in farm animals								
Livestock feed and fodder production								
Household food security								
Women and Child care								
Low cost and nutrient efficient diet designing								
Production and use of organic inputs								
Gender mainstreaming through SHGs								
Communication skill and use of ICT equipment	1	10	10	20	10	05	15	35
Rainwater harvesting techniques	2	15	10	25	15	10	25	50
Renewable energy use on farm	2	15	10	25	15	10	25	50
Importance of balance diet and diet for anemia	2	10	10	20	10	05	15	35
TOTAL	**7**	**50**	**40**	**90**	**50**	**30**	**80**	**170**
G. Total	**44**	**695**	**295**	**990**	**305**	**120**	**425**	**1415**

B. OFF Campus

Thematic Area	**No. of Courses**	**No. of Participants**						
		Others			**SC/ST**			**Grand Total**
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I Crop Production								
Weed Management								
Resource Conservation Technologies								
Cropping Systems								
Crop Diversification								
Integrated Farming								
Water management								
Seed production								
Nursery management								
Integrated Crop Management	1	25	00	25	20	00	20	45
Fodder production								
Production of organic inputs	1	25	00	25	20	00	20	45
Organic farming certification procedure	1	25	00	25	20	00	20	45
Package of practices of rabi crops	1	25	00	25	20	00	20	45
II Horticulture								
a) Vegetable Crops								
Production of low volume and high value crops								
Off-season vegetables								
Nursery raising								
Exotic vegetables like Broccoli								
Export potential vegetables								
Grading and standardization								

Protective cultivation (Green Houses, Shade Net etc.)								
b) Fruits								
Training and Pruning								
Layout and Management of Orchards	1	25	00	25	20	00	20	45
Cultivation of Fruit								
Management of young plants/orchards								
Rejuvenation of old orchards								
Export potential fruits								
Micro irrigation systems of orchards								
Plant propagation techniques								
c) Ornamental Plants								
Nursery Management								
Management of potted plants								
Export potential of ornamental plants								
Propagation techniques of Ornamental Plants								
d) Plantation crops								
Production and Management technology								
Processing and value addition								
e) Tuber crops								
Production and Management technology								
Processing and value addition								
f) Spices								
Production and Management technology								
Processing and value addition								
g) Medicinal and Aromatic Plants								
Nursery management								
Production and management technology								
Post harvest technology and value addition								
III Soil Health and Fertility Management								
Soil fertility management								
Soil and Water Conservation								
Integrated Nutrient Management	1	25	00	25	20	00	20	45
Production and use of organic inputs								
Management of Problematic soils								
Micro nutrient deficiency in crops								

Nutrient Use Efficiency								
Soil and Water Testing	1	25	00	25	20	00	20	45
IV Livestock Production and Management								
Dairy Management								
Poultry Management								
Piggery Management								
Rabbit Management /goat								
Disease Management								
Feed management								
Production of quality animal products								
V Home Science/Women empowerment								
Household food security by kitchen gardening and nutrition gardening	1	00	30	30	00	15	15	45
Design and development of low/minimum cost diet								
Designing and development for high nutrient efficiency diet								
Minimization of nutrient loss in processing	1	00	30	30	00	15	15	45
Gender mainstreaming through SHGs	1	00	30	30	00	15	15	45
Storage loss minimization techniques								
Value addition	1	00	30	30	00	15	15	45
Income generation activities for empowerment of rural Women								
Location specific drudgery reduction technologies	1	00	30	30	00	15	15	45
Rural Crafts								
Women and child care	2	00	60	60	00	30	30	90
VI Agril. Engineering								
Installation and maintenance of micro irrigation systems	1	10	25	35	05	05	10	45
Rain water harvesting	1	10	25	35	05	05	10	45
Drainage system	1	10	25	35	05	05	10	45
Repair and maintenance of farm machinery and implements	1	10	25	35	05	05	10	45
Small scale processing and value addition	1	10	25	35	05	05	10	45
Beneficial use of mulching	1	10	25	35	05	05	10	45
Post harvest technology	1	10	25	35	05	05	10	45
Renewable energy source utilization on farm	1	10	25	35	05	05	10	45
VII Plant Protection								
Integrated Pest Management	2	50	00	50	40	00	40	90
Integrated Disease Management								
Bio-control of pests and diseases								

Production of bio control agents and bio pesticides	1	25	00	25	20	00	20	45
Method demonstration of organic product	1	25	00	25	20	00	20	45
VIII Fisheries								
Integrated fish farming								
Carp breeding and hatchery management								
Carp fry and fingerling rearing								
Composite fish culture								
Hatchery management and culture of freshwater prawn								
Breeding and culture of ornamental fishes								
Portable plastic carp hatchery								
Pen culture of fish and prawn								
Shrimp farming								
Edible oyster farming								
Pearl culture								
Fish processing and value addition								
IX Production of Inputs at site								
Seed Production								
Planting material production (Horti.)								
Bio-agents production								
Bio-pesticides production								
Bio-fertilizer production								
Vermi-compost production (Horti.)								
Organic manures production (A.S.)								
Production of fry and fingerlings								
Production of Bee-colonies and wax sheets								
Small tools and implements								
Production of livestock feed and fodder								
Production of Fish feed								
X Capacity Building and Group Dynamics								
Leadership/ Entrepreneurship development	1	25	00	25	20	00	20	45
Group dynamics								
Formation and Management of SHGs(HS)	1	25	00	25	20	00	20	45
Mobilization of social capital								
Entrepreneurial development of farmers/youths (Agro.)								
WTO and IPR issues								
Upgrade knowledge on seed treatment	1	25	00	25	20	00	20	45

Women development though micro saving	1	25	00	25	20	00	20	45
XI Agro-forestry								
Production technologies								
Nursery management								
Integrated Farming Systems (Agro)								
XII Others (Pl. Specify)								
TOTAL	**30**	**455**	**410**	**865**	**340**	**145**	**485**	**1350**

C. Consolidated table (ON and OFF Campus)

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I Crop Production								
Weed Management								
Resource Conservation Technologies	1	15	10	25	05	05	10	35
Cropping Systems	2	30	20	50	10	10	20	70
Crop Diversification								
Integrated Farming								
Water management								
Seed production								
Nursery management								
Integrated Crop Management	2	50	00	50	30	00	30	80
Fodder production								
Production of organic inputs	3	55	20	75	30	10	40	115
Organic farming certification procedure	1	25	00	25	20	00	20	45
Package of practices of rabi crops	1	25	00	25	20	00	20	45
II Horticulture								
a) Vegetable Crops								
Production of low volume and high value crops								
Off-season vegetables								
Nursery raising	1	15	10	25	05	05	10	35
Exotic vegetables like Broccoli								
Export potential vegetables								
Grading and standardization								
Protective cultivation (Green Houses, Shade Net etc.)								
b) Fruits								
Training and Pruning								
Layout and Management of Orchards	1	25	00	25	20	00	20	45
Cultivation of Fruit	1	15	10	25	05	05	10	35
Management of young plants/orchards								
Rejuvenation of old orchards								
Export potential fruits								
Micro irrigation systems of orchards								

Plant propagation techniques								
c) Ornamental Plants								
Nursery Management	1	15	10	25	05	05	10	35
Management of potted plants								
Export potential of ornamental plants								
Propagation techniques of Ornamental Plants								
d) Plantation crops								
Production and Management technology	1	15	10	25	05	05	10	35
Processing and value addition	1	15	10	25	05	05	10	35
e) Tuber crops								
Production and Management technology								
Processing and value addition								
f) Spices								
Production and Management technology								
Processing and value addition								
g) Medicinal and Aromatic Plants								
Nursery management								
Production and management technology								
Post harvest technology and value addition								
III Soil Health and Fertility Management								
Soil fertility management								
Soil and Water Conservation								
Integrated Nutrient Management	1	25	00	25	20	00	20	45
Production and use of organic inputs								
Management of Problematic soils								
Micro nutrient deficiency in crops								
Nutrient Use Efficiency								
Soil and Water Testing	1	25	00	25	20	00	20	45
IV Livestock Production and Management								
Dairy Management								
Poultry Management								
Piggery Management								
Rabbit Management/goat								
Disease Management								
Feed management								
Production of quality animal products								
V Home Science/Women empowerment								
Household food security by kitchen gardening and nutrition gardening	2	00	50	50	00	30	30	80
Design and development of low/minimum cost diet								
Designing and development for high nutrient efficiency diet								

Minimization of nutrient loss in processing	1	00	30	30	00	15	15	45
Gender mainstreaming through SHGs	1	00	30	30	00	15	15	45
Storage loss minimization techniques								
Value addition	2	00	60	60	00	30	30	90
Income generation activities for empowerment of rural Women	1	00	30	30	00	05	05	35
Location specific drudgery reduction technologies	2	00	60	60	00	30	30	90
Rural Crafts	1	00	30	30	00	05	05	35
Women and child care	2	00	60	60	00	30	30	90
VI Agril. Engineering								
Installation and maintenance of micro irrigation systems	2	30	30	60	15	15	30	90
Use of greenhouse and net house for seed production	1	15	10	25	05	05	10	35
Soil & Water Conservation technologies	1	15	10	25	05	05	10	35
Groundwater recharge techniques	1	15	10	25	05	05	10	35
Importance of drainage in agricultural field	1	15	10	25	05	05	10	35
Farm machineries for farm women	1	15	10	25	05	05	10	35
Machineries and small tools for horticultural crops	1	15	10	25	05	05	10	35
Post harvest technology and small scale value addition	1	15	10	25	05	05	10	35
Rain water harvesting	1	15	10	25	10	10	20	45
Drainage system	1	15	10	25	10	10	20	45
Repair and maintenance of farm machinery and implements	1	15	10	25	10	10	20	45
Small scale processing and value addition	1	15	10	25	10	10	20	45
Beneficial use of mulching	1	15	10	25	10	10	20	45
Post harvest technology	1	15	10	25	10	10	20	45
Renewable energy source utilization on farm	1	15	10	25	10	10	20	45
VII Plant Protection								
Integrated Pest Management	3	75	00	75	50	00	50	125
Integrated Disease Management	1	25	00	25	10	00	10	35
Bio-control of pests and diseases	1	25	00	25	10	00	10	35
Production of bio control agents and bio pesticides	2	50	00	50	30	00	30	85
Method demonstration of organic product	1	25	00	25	20	00	20	45
VIII Fisheries								
Integrated fish farming								
Carp breeding and hatchery management								
Carp fry and fingerling rearing								
Composite fish culture								

Hatchery management and culture of freshwater prawn								
Breeding and culture of ornamental fishes								
Portable plastic carp hatchery								
Pen culture of fish and prawn								
Shrimp farming								
Edible oyster farming								
Pearl culture								
Fish processing and value addition								
IX Production of Inputs at site								
Seed Production								
Planting material production								
Bio-agents production								
Bio-pesticides production								
Bio-fertilizer production								
Vermi-compost production								
Organic manures production								
Production of fry and fingerlings								
Production of Bee-colonies and wax sheets								
Small tools and implements								
Production of livestock feed and fodder								
Production of Fish feed								
X Capacity Building and Group Dynamics								
Entrepreneurial development of farmers/youths	1	25	00	25	10	00	10	35
WTO and IPR issues								
Awareness regarding organic farming	1	25	00	25	10	00	10	35
Upgrade the knowledge of farmers about ICT	1	25	00	25	10	00	10	35
Upgrade the knowledge about new varieties of *rabi* crops and its cultivation practices	1	25	00	25	10	00	10	35
Leadership/ Entrepreneurship development	1	25	00	25	20	00	20	45
Group dynamics								
Formation and Management of SHGs(HS)	1	25	00	25	20	00	20	45
Mobilization of social capital								
Entrepreneurial development of farmers/youths (Agro.)								
WTO and IPR issues								
Upgrade knowledge on seed treatment	1	25	00	25	20	00	20	45
Women development though micro saving	1	25	00	25	20	00	20	45
XI Agro-forestry								
Production technologies								

Nursery management								
Integrated Farming Systems								
Sponsored training								
TOTAL	**62**	**1050**	**640**	**1690**	**570**	**210**	**780**	**2470**
(B) RURAL YOUTH								
Mushroom Production								
Bee-keeping								
Integrated farming								
Seed production								
Production of organic inputs								
Integrated Farming								
Planting material production								
Vermi-culture	1	10	05	15	05	05	10	25
Sericulture								
Protected cultivation of vegetable crops								
Commercial fruit production								
Repair and maintenance of farm machinery and implements								
Nursery Management of Horticulture crops								
Training and pruning of orchards								
Value addition	1	10	05	15	05	05	10	25
Production of quality animal products								
Dairying								
Sheep and goat rearing								
Quail farming								
Piggery								
Rabbit farming								
Poultry production								
Ornamental fisheries								
Para vets								
Para extension workers								
Composite fish culture								
Freshwater prawn culture								
Shrimp farming								
Pearl culture								
Cold water fisheries								
Fish harvest and processing technology								
Fry and fingerling rearing								
Small scale processing								
Post Harvest Technology								
Tailoring and Stitching								
Rural Crafts								
Procedure for organic farming certification	1	10	05	15	05	05	10	25
Plant Protection Appliances/ Equipments	1	10	05	15	05	05	10	25
Income generation activities	1	10	05	15	05	05	10	25
TOTAL	**5**	**50**	**25**	**75**	**25**	**25**	**50**	**125**

(C) Extension Personnel								
Productivity enhancement in field crops								
Integrated Pest Management								
Integrated Nutrient management								
Rejuvenation of old orchards								
Protected cultivation technology								
Formation and Management of SHGs								
Group Dynamics and farmers organization								
Information networking among farmers								
Capacity building for ICT application								
Care and maintenance of farm machinery and implements								
WTO and IPR issues								
Management in farm animals								
Livestock feed and fodder production								
Household food security								
Women and Child care								
Low cost and nutrient efficient diet designing								
Production and use of organic inputs								
Gender mainstreaming through SHGs								
Communication skill and use of ICT equipment	1	10	10	20	10	05	15	35
Rainwater harvesting techniques	2	15	10	25	15	10	25	50
Renewable energy use on farm	2	15	10	25	15	10	25	50
Importance of balance diet and diet for anemia	2	10	10	20	10	05	15	35
Total	**7**	**50**	**40**	**90**	**50**	**30**	**80**	**170**
G. TOTAL	**74**	**1150**	**705**	**1855**	**645**	**265**	**910**	**2765**

Details of training programmes attached in **Annexure -I**

3.5. Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	12	240	40	280	10	0	10	250	40	290
Kisan Mela	2	600	150	750	25	5	30	625	155	780
Kisan Ghosthi	3	75	0	75	0	0	0	75	0	75
Exhibition	2	350	50	400	5	0	5	355	50	405
Film Show	1	100	0	100	0	0	0	100	0	100
Farmers Seminar	2	200	80	280	2	0	2	202	80	282
Workshop	0	0	0	0	0	0	0	0	0	0
Group meetings	2	80	0	80	0	0	0	80	0	80

Lectures delivered as resource persons	20	750	250	1000	5	0	5	755	250	1005
Newspaper coverage	10	0	0	0	0	0	0	0	0	0
Radio talks	2	0	0	0	0	0	0	0	0	0
TV talks	1	0	0	0	0	0	0	0	0	0
Popular articles	10	0	0	0	0	0	0	0	0	0
Extension Literature	15	0	0	0	0	0	0	0	0	0
Advisory Services	20	250	20	270	5	0	5	255	20	275
Scientific visit to farmers field	40	400	40	440	0	0	0	400	40	440
Farmers visit to KVK	50	2500	500	3000	50	10	60	2550	510	3060
Diagnostic visits	10	200	0	200	5	0	5	205	0	205
Exposure visits	2	100	0	100	0	0	0	100	0	100
Ex-trainees Sammelan	2	100	50	150	0	0	0	100	50	150
Soil health Camp	1	200	30	230	2	0	2	202	30	232
Animal Health Camp	1	100	50	150	1	0	1	101	50	151
Agri mobile clinic	0	0	0	0	0	0	0	0	0	0
Soil test campaigns	3	150	30	180	0	0	0	150	30	180
Farm Science Club Conveners meet	0	0	0	0	0	0	0	0	0	0
Self Help Group Conveners meetings	0	0	0	0	0	0	0	0	0	0
Mahila Mandals Conveners meetings	0	0	0	0	0	0	0	0	0	0
Celebration of important days	4	400	250	650	5	0	5	405	250	655
Krishi Mohostva	2	2500	500	3000	20	5	25	2520	505	3025
Krishi Rath	0	0	0	0	0	0	0	0	0	0
Pre Kharif workshop	1	200	50	250	2	0	2	202	50	252
Pre Rabi workshop	1	200	50	250	2	0	2	202	50	252
PPVFRA workshop	1	200	0	200	25	0	25	225	0	225
Any Other (Specify)	0	0	0	0	0	0	0	0	0	0
Total	**220**	**9895**	**2140**	**12035**	**164**	**20**	**184**	**10059**	**2160**	**12219**

3.6. Target for Production and supply of Technological products

SEED MATERIALS

Sl. No.	Crop	Variety	Quantity (qtl.)
CEREALS	Wheat	GW-463	40 (1 ha)
OILSEEDS	Groundnut	GJG-22	134 (12 ha)
PULSES	Gram	GG-5	12.0 (0.5 ha)
VEGETABLES	NIL		
OTHERS (Specify)			

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	NIL		
VEGETABLES	Brinjal	GRB-5	1000
	Tomato	JT-3	1000
	Chilli	Double Patto	1000
		Total	**3000**
Sugarcane settlings / seedlings	**NIL**		

Bio-products

Sl. No.	Product Name	Species	Quantity	
			Kg	Lit
1	Savaj Beauveria	*Beauveria bassiana*	15,00,0000	-
2	Trichoderma	*Trichoderma harzianum*	25,00,000	-
3	PSB culture		2500	-
4	MDP tube	Mating Disruption Paste	50 (No.)	-
5	Lure		4000 (No.)	-
6	Pheromone Trap		2000 (No.)	-
7	Rhizobium		-	2500
8	Azotobacter		-	2500
9	Metarhizium	*Metarhizium anisopliae*	-	200000

LIVESTOCK-

Sl. No.	Type	Breed	Quantity (No.)
CATTLE	NIL		
GOAT			
SHEEP			
POULTRY			
PIGS			
FISHERIES			
ANY OTHER (Pl. specify)			

4. Literature to be Developed/Published

A. Literature developed/published

S. No.	Topic	Number
1	Research papers	10
2	Technical reports	07
3	News letters	04
4	Training manuals	01
5	Popular articles	20
6	Extension literature	05
7	E-publication	10
8	Any other (Please specify)	0
	Total	**57**

B. Details of Electronic Media to be produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette) and video clippings	Title of the programme	Number
1	Video clipping	Impact of *Beauveria bassiana*	1
	Video clipping	Drip irrigation in pulse crop	1
	Video clipping	Soil Analysis	1
	Video clipping	Custom hiring center	1
	Video clipping	Natural Recourse Management	1
	Video clipping	Organic farming	1

C. Details of social media platforms to be started / continued

S. No.	Type of social media platform	Title / Purpose	Number
1	YouTube Channel	Junagadh Agricultural University	1
2	Facebook page	Krishi Vigyan Kendra, Amreli	1
3	Mobile Apps	0	0
4	WhatsApp groups	To send information to farmers	**25**
5	Twitter Account	Krishi Vigyan Kendra, Amreli	1
6	Any other (Pl. Specify)	0	0

D.Success stories/Case studies identified for development as a case (Based on previous years success)

S. No.	Title of success story / case study identified	Proposed month for case/story to be prepared/ developed

5.1. Indicate the specific training need analysis tools/methodology followed for

A. Practicing Farmers

a) Interview schedule

b) Farmer group discussion

c) Observation

B. Rural Youth

a) Interview schedule

b) Focus group

c**)** Difficulty analysis

C. In-service personnel

a) Interview schedule

b) Focus group

c**)** Difficulty analysis

5.2. Indicate the methodology for identifying OFTs/FLDs

For OFT:

i) PRA
ii) Problem identified from Matrix
iii) Field level observations
iv) Farmer group discussions
v) Others if any

For FLD:

i) New variety/technology
ii) Poor yield at farmer's level
iii) Existing cropping system
iv) Others if any

5.3. Field activities

i. Name of villages identified/adopted with block name (from which year) –

1	Hathigadh	Liliya
2	Jasvantgadh	Amreli
3	Randhiya	Amreli
4	Ingorala	Khambha
5	Devgam	Kukavav
6	Rikadiya	Amreli
7	Kuvargadh	Babra
8	Ramgadh	Savarkundla
9	Dhajda	Savarkundla
10	Jambarvada	Babra
11	KhadKhad	Kukavav
12	Rafala	Bagasra
13	Sukhpar	Babara

14	Fachariya	Dhari
15	Sekhpipariya	Lathi

ii. No. of farm families selected per village: 450
iii. No. of survey/PRA conducted: 04
iv. No. of technologies taken to the adopted villages: 12
v. Name of the technologies found suitable by the farmers of the adopted villages:

- New varieties,
- Vermi compost,
- Organic farming,
- Value addition & Marketing,
- IPM,
- IDM,
- INM,
- IFS,
- Farm machinery
- Mulching
- Resource conservation
- ICT

vi. Impact (production, income, employment, area/technological–horizontal/vertical):NIL
vii. Constraints if any in the continued application of these improved technologies

6. LINKAGES

6.1. Functional linkage with different organizations

Sl.No.	Name of organization	Nature of Linkage
1.	Dy. Director of Agriculture.	Farmers Training, Diagnostic services
2.	Dy. Director of Agril. Extension (FTC)	Resource person in Lectures
3.	Dy. Director of Horticulture	Resource person in Lectures
4.	Dy. Director of Animal Husbandry	Sponsored training
5.	Dy. Director of Soil Conservation	Resource person in Lectures
6.	Dy. Director of Social Forestry	Resource person in Lectures
7.	Amreli Jilla Madhya sahakari bank	Resource person in Lectures
8.	Milk Co-Operative Society	Resource person in Lectures
9.	State Bank of India	Resource person in Lectures
10.	National Bank for Agriculture & Rural Development (NABARD)	Resource person in Lectures
11.	NHRDF	Sponsored Training, Resource person in Lectures
12.	Doordarshan Kendra	Media coverage
13.	All India Radio	Radio talk
14.	District Rural Development Agency	Sponsored Training, Resource person in Lectures
15.	ATMA	Sponsored Training, Resource person in Lectures, meeting

16.	Mahindra & Mahindra Co. Ltd.	Sponsored Training, Resource person in Lectures

6.2. Details of linkage with ATMA

S. No.	Programme	Nature of linkage
1	All the extension activities of district, Amreli	Sponsored Training, Demonstration , Resource person in Lectures, meeting

6.3. Give details of programmes under National Horticultural Mission

S. No.	Programme	Nature of linkage
1	Farmers training	As a resource person

6.4. Nature of linkage with National Fisheries Development Board

S. No.	Programme	Nature of linkage
1	Farmers training	As a resource person

6.5. Additional Activities planned including sponsored projects (NARI/DAESI/DAMU/DFI/PKVY,Skill Trainings, etc.) / schemes during 2021, if involved.

6.5.1. Details of activities planned in DFI villages- Nil

Name of DFI village selected	Total No. of families in the village	Interventions planned during 2021	No. of families to be covered under the interventions	Present annual income of the family (Rs /annum)	Expected annual income of the family after interventions (Rs/ annum)
Karjala	404	Vermi compost, Improved variety, Organic Farming, Custom hiring center, value addition, crop diversification	100	1,20,000/-	1,70,000/-
Nesdi	957		100	1,00,000/-	1,00,000/-

6.5.2. Details of activities planned under NARI (Including FSN project)-

S. No.	Name of the village	Activities planned	No. of families to be covered
NIL			

6.5.3. Details of activities planned under Paramaparagat Krishi Vikas Yojana (PKVY)

S. No.	Name of the village	Activities planned	No. of families to be covered
1.	Ingorala, Bhad, Khambha, Umariya	Incentive to farmers for farm inputs, Exposur visit, raining and PGS Certification	20

6.5.4. Details of skill trainings planned (sponsored by ASCI)

S. No.	Name of Job Role	Duration (No. of hours)	No. of participants

1	Dairy Entrepreneur	200	25

6.6. Activities planned in respect of FPOs / FPCs-Nil

1. No. of FPOs / FPCs to be formed:
2. No. of existing FPOs / FPCs to be facilitated:
3. Type of support to be provided to existing FPOs / FPCs:

S. No	Name of the FPO / FPC	No. of members	Major activities of FPO / FPC	Type of support to be provided by KVK
NIL				

7.0 Convergence with other agencies and line departments in the district:

S. No.	Name of the department / Agency	Type of convergence	Area (ha) / No. of farmers to be benefited
1	**ATMA**	Resource person	-

8. Innovator Farmer's Meet 2021

Sl.No.	Particulars	Details	Expected No. of participants
1	**Farm innovators meet planned**	**18-19 April**	**5**

9. Utilization of hostel facilities-

S. No.	Month	No. of days to be utilized
NIL		

10. Details of online activities planned (If any)

S. No.	Type of activities	No. of programmes	Mode of implementation (Video conferencing / Audio Conferencing / Facebook Live / YouTube Live, etc.)	No. of participants to be covered
1	Farmers trainings	5	Video Conferencing	150
2	Farmers scientist's interaction programme	3	Facebook Live	100
3	Farmers seminars	1	Video Conferencing	80
4	Expert lectures	8	Video Conferencing	350
5	Any other (Pl. specify)	0	0	0

11. Details of collaborative applied research projects planned if any-

S. No.	Name of the research project	Funding agency	Collaborating organizations	Year of commencement	Major activities planned
NIL					

Annexure - I

Training Programme

i) Farmers & Farm women (On Campus)

Date	Clientele	Title of the training programme	Duration in days	Number of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
Crop Production										
12/04/2021	PF	Fertilizers recommendation based on soil analysis	1	25	00	25	10	00	10	35
5/06/2021	PF	Scientific cultivation of kharif crops	1	25	00	25	10	00	10	35
05/07/2021	PF	Cow based organic fertilizers preparation	1	25	00	25	10	00	10	35
2/11/2021	PF	Scientific cultivation of Rabi crops	1	25	00	25	10	00	10	35
29/11/2021	PF	Use and Importance of Bio fertilizers	1	25	00	25	10	00	10	35
12/01/2022	PF	Scientific cultivation of Summer crops	1	25	00	25	10	00	10	35
Horticulture										
14/04/2021	PF	Nursery raising	1	25	00	25	10	00	10	35
9/06/2021	PF	Cultivation of Fruit	1	25	00	25	10	00	10	35
12/07/2021	PF	Nursery Management	1	25	00	25	10	00	10	35
21/11/2021	PF	Post harvest technology and value addition	1	25	00	25	10	00	10	35
12/12/2021	PF	Production and Management technology	1	25	00	25	10	00	10	35
Livestock production: NIL										
Agril. Engg.										
04/06/21	PF/FW	Installation and maintenance of micro irrigation systems	1	15	10	25	05	05	10	35
10/12/21	PF/FW	Use of greenhouse and net house for seed production	1	15	10	25	05	05	10	35
10/6/21	PF/FW	Soil & Water Conservation technologies	1	15	10	25	05	05	10	35
10/7/21	PF/FW	Groundwater recharge techniques	1	15	10	25	05	05	10	35
10/8/21	PF/FW	Importance of drainage in agricultural field	1	15	10	25	05	05	10	35
10/9/21	PF/FW	Farm machineries for farm women	1	15	10	25	05	05	10	35
10/10/21	PF/FW	Machineries and small tools for horticultural crops	1	15	10	25	05	05	10	35

10/11/21	PF/FW	Post harvest technology and small scale value addition	1	15	10	25	05	05	10	35
Home Sc.										
16/04/2021	FW	Household food security by kitchen gardening and nutrition gardening	1	00	30	30	00	05	05	35
12/06/2021	FW	Value addition	1	00	30	30	00	05	05	35
18/07/2021	FW	Income generation activities for empowerment of rural Women	1	00	30	30	00	05	05	35
26/11/2021	FW	Location specific drudgery reduction technologies	1	00	30	30	00	05	05	35
12/12/2021	FW	Rural Crafts	1	00	30	30	00	05	05	35
Plan prot.										
20/6/21	PF	Integrated approach for management to control of fall army worm in maize	1	25	00	25	10	00	10	35
16/04/2021	PF	Importance of organic pesticides	1	25	00	25	10	00	10	35
5/10/21	PF	Integrated Disease Management of *rabi* crops	1	25	00	25	10	00	10	35
20/5/21	PF	Botanical pescticides	1	25	00	25	10	00	10	35
Fisheries : NIL										
Soil Health: NIL										

i) Farmers & Farm women (Off Campus)

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
Crop Production										
10/06/2021	PF	Integrated Nutrient Management in Kharif crops	1	25	00	25	20	00	20	45
12/08/2021	PF	Preparation procedure of liquid organic fertilizer	1	25	00	25	20	00	20	45
10/09/2021		Organic farming certification procedure	1	25	00	25	20	00	20	45
3/11/2021	PF	Package of practices of rabi crops	1	25	00	25	20	00	20	45
Horticulture										
15/05/2021	PF	Nursery raising	1	25	00	25	20	00	20	45
5/06/2021	PF	Layout and Management of Orchards	1	25	00	25	20	00	20	45
Live Stock Production: NIL										
Agril. Engg.										

20/03/21	FW-PF	Installation and maintenance of micro irrigation systems	1	15	10	25	10	10	20	45
20/5/21	FW-PF	Rain water harvesting	1	15	10	25	10	10	20	45
20/4/21	FW-PF	Repair and maintenance of farm machinery and implements	1	15	10	25	10	10	20	45
20/5/21	FW-PF	Drainage system	1	15	10	25	10	10	20	45
20/8/21	FW-PF	Small scale processing and value addition	1	15	10	25	10	10	20	45
20/9/21	FW-PF	Use of Plastics in farming practices	1	15	10	25	10	10	20	45
20/10/21	FW-PF	Post Harvest Technology	1	15	10	25	10	10	20	45
20/11/21	FW-PF	Renewable energy source utilization on farm	1	15	10	25	10	10	20	45
Home Sc.										
10/06/2021	FW	Household food security by kitchen gardening and nutrition gardening	1	00	25	25	00	20	20	45
12/08/2021	FW	Minimization of nutrient loss in processing	1	00	25	25	00	20	20	45
10/09/2021	FW	Gender mainstreaming through SHGs	1	00	25	25	00	20	20	45
3/11/2021	FW	Location specific drudgery reduction technologies	1	00	25	25	00	20	20	45
10/12/21	FW	Small scale processing and value addition	1	00	25	25	00	20	20	45
Plant Protection										
20/06/2021	PF	Advance techniques of pest management	1	25	00	25	20	00	20	45
4/08/2021	PF	Method demonstration of organic product	1	25	00	25	20	00	20	45
20/09/2021	PF	Bio -Pesticides	1	25	00	25	20	00	20	45
01/11/2021	PF	Sucking pest management in Rabi crops	1	25	00	25	20	00	20	45
Fisheries: NIL										
Soil health										
14/4/2021	PF	INM	1	25	00	25	20	00	20	45
10/05/2021	PF	Soil and Water Testing	1	25	00	25	20	00	20	45

ii) Vocational training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title*	Month	Duration (days)	No. of Participants			SC/ST participants			G.Total
					M	F	T	M	F	T	

1.	Plant protection	Mushroom cultivation	-	3	35	0	35	00	00	35	35
2.	Home science	Dairy entrepreneurship	-	3	0	35	35	00	00	35	35
3.		Bakery training	-	3	0	35	35	00	00	35	35
4.	Agricultural Engineering	Vegan Milk Production	-	4	0	20	20	00	00	20	20
5.		Computer knowledge skill development for household entrepreneurship	-	7	0	10	10	00	10	10	20

iii) Training programme for extension functionaries

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
On Campus										
05/04/2021	Extension worker	Communication skill and use of ICT equipment	1	15	10	25	05	05	10	35
10/06/2021	Extension worker	Rainwater harvesting techniques	2	15	15	30	10	10	20	50
10/03/2021	Extension worker	Renewable energy use on farm	2	15	15	30	10	10	20	50
15/09/2021	Anganwadi worker	Importance of balance diet and diet for anemia	2	00	25	25	00	10	10	35

iv) Sponsored programmes

Discipline	Sponsoring agency	Clientele	Title of the training programme	No. of courses	No. of participants			Number of SC/ST			G. Total
					M	F	T	M	F	T	
a) Sponsored training programme											
Plant Protection	Dept. of Agriculture, Dept. of Horticulture, ATMA, GGRC, NGOs, etc.	PF	Integrated management of fall army warm in maize	1	25	00	25	20	00	20	45
		PF	Role of Trichoderma, Beauveria, bossiana and metarhium anisoplie and its uses	1	25	00	25	20	00	20	45
Crop Production		PF	Scientific production of kharif crops	1	25	00	25	20	00	20	45
		PF	Organic farming	1	25	00	25	20	00	20	45
		PF	Use of soil health card	1	25	00	25	20	00	20	45
Agri. Ext.		PF	Use of mass media	1	25	00	25	20	00	20	45
		PF	Entrepreneurship development	1	25	00	25	20	00	20	45
Home Science		FW	Value addition	1	00	25	25	00	25	25	50

Agricultural Engg.		PF	Micro Irrigation System Maintenance	1	25	00	25	20	00	20	45
			Total	**9**	**200**	**25**	**225**	**160**	**25**	**185**	**410**
b) Sponsored research programme: NIL											
c) Any special programmes: NIL											

Annexure - II

Details of Budget Estimate (2021-22) based on proposed action plan

S. No.	Particulars	Proposed BE 2021-22 (Rs.)
1	**Recurring Contingencies**	
1.1	**Pay & Allowances**	**150,00,000**
1.2	**Traveling allowances**	**2,00,000**
1.3	**Contingencies**	
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	
B	POL, repair of vehicles, tractor and equipments	
C	Meals/refreshment for trainees (ceiling upto Rs.150/day/trainee be maintained)	
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	
G	Training of extension functionaries	
H	Maintenance of buildings	
I	Establishment of Soil, Plant & Water Testing Laboratory	
J	Library	
	TOTAL Recurring Contingencies	**15,00,000**
2	**Non-Recurring Contingencies**	
2.1	**Works**	
2.2	**Equipments including SWTL & Furniture**	
2.3	**Vehicle** (Four-wheeler/Two-wheeler, please specify)	
2.4	**Library** (Purchase of assets like books & journals)	
	TOTAL Non-Recurring Contingencies	
3	**REVOLVING FUND**	
	GRAND TOTAL	**167,00,000**