ACTION PLAN 2021

(1st January 2021 to 31st December - 2021)

TO BE PRESENTED AT
ANNUAL ACTION PLAN WORKSHOP OF KVKs OF GUJARAT

ORGANIZED BY
DIRECTOR, ATARI ZONE-VIII, ICAR, PUNE

HELD AT
Virtually
During 18, 2021

PREPARED/COMPILED By
Dr. K. P. Baraiya, Senior Scientist & Head
Smt. A. K. Baraiya, Scientist



KRISHI VIGYAN KENDRA

JUNAGADH AGRICULTURAL UNIVERSITY JAMNAGAR - 361 006 GUJARAT



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ANNUAL ACTION PLAN

(1st January 2021 to 31st December - 2021)

KRISHI VIGYAN KENDRA JUNAGADH AGRICULTURAL UNIVERSITY, JAMNAGAR

1. GENERALINFORMATIONABOUT THE KVK

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

Address	Tele	phone	E mail	Website address &	
Address	Office	FAX	Eman	No. of visitors (hits)	
KrishiVigyan Kendra					
Millet Research Station, JAU	(0288)	(0288)	kvkjamnagar@jau.in	www.jau.in	
Airforce Road, Opp. Digjam Mill	2710165	2710165	kvkjamnagar@gmail.com	14218698	
Jamnagar- 361 006					

^{*} ICT lab was established centrally at University Headquarter, JunagadhAgricultrual University, Junagadh. As a part of ICT on KVK is also established.

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

Address	Teleph	one	r mail	Mah adduses
Address	Office	FAX	E-mail	Web address
JunagadhAgricultural University, Junagadh – 362 001 (Gujarat)	PBX 2672080-90	(0285) 2672653	dee@jau.in	www.jau.in

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

	Telephone / Contact					
Name	Residence	Mobile	Email			
Dr. K. P. BARAIYA	Senior Scientist & Head KrishiVigyan Kendra JunagadhAgricultural University, Airforce Road, Opp. Digjam Mill Jamnagar- 361 006	9427980032	kvkjamnagar@gmail.com kvkjamnagar@jau.in			

1.4. Year of sanction:

ZARS (KVK) 2001, LetterNo.F.No. 18(4)/99-NATP Dated October 31st, 2001 ICAR (KVK) 2004, LetterNo.F.No. 8(1)/2002-AE-II(Pt.) Dated February 5th, 2004

1.5. StaffPosition (as on 31st December, 2020)

	,	s on 31. Decembe	Discipline			5	
SI.	Sanctioned post	•		If Permanent, P	lease	Date of	If Temporary,
No.		incumbent		indicate		joining	pl. indicate the
				C	Prese		consolidated
				Current	nt		amount paid
				Pay Band	Basic		(Rs./month)
1	Senior Scientist	Dr. K.P. Baraiya	Plant Protection	131400-217100	143600	24.03.2015	
	& Head						
2	Scientist	Shri V. K. Kikani	Crop Production	57700-182400	84700	01.10.2020	
3	Scientist	Vacant	Plant Protection	57700-182400			
4	Scientist	Vacant	Horti./ Ag. Engg	57700-182400			
5	Scientist	Vacant	Ext. Education	57700-182400			
6	Scientist	Vacant	Fisheries/	57700-182400			
			Veterinary				
7	Scientist	Smt. A. K.	Home Science	68900-205500	89900	17.08.2006	
		Baraiya					
8	Farm Manager	Shri H. S.	Agril. Ent.	39900-126600	39900	19.09.2015	
		Godhani					
9	ProgrammeAssi	Shri N. D.	Agril.	39900-126600	-	01.02.2020	38090/-
	stant	Ambaliya					

10	Computer	Shri C. P.	Computer	39900-126600	49000	29.12.2008	
	Programmer	Padhiyar	Operator				
11	Accountant /	Vacant	Adm.	39900-126600	-	-	
	Superintendent						
12	Stenographer	Vacant	Adm.	19900-63200	-	-	
13	Driver	Vacant	Supt.	19900-63200	-	-	
14	Driver	Shri. D.M.	Supt. (Fix)	19900-63200	26000	9.10.2007	
		Chauhan					
15	Supporting staff	Shri B. V.	Supt.	14800-47100	18200	01.11.2014	
		Bamaniya					
16	Supporting staff	Shri P. S. Damor	Supt.	14800-47100	19300	1.09.2006	

1.6. Total land with KVK (in ha) :20.84 ha

Sl. No.	Item	Area in hectare(s)*
1	Under Building and Road	2.00
2	Under Demonstration units	0.70
3	Under crops	12.40
4	Orchard	3.50
5	Agro-forestry	0.24
6	Others (Farm Pond & Channels)	2.00
	Total	20.84

1.7. Infrastructural Development:

A) Buildings

			Stage					
SI.		Sourceof		Complete			Incompl	ete
No.	Name of building	funding	Completi		Expen-	Star-	Plinth	Status of
IVO.		Turiumg			diture	ting	area	const-
			Date		(Rs.)	Date	(Sq.m)	ruction
1.	Administrative	KVK	15-8-11	550	5500000			
	Building	KVK	15 0 11	330	3300000			
2.	Farmers Hostel	KVK	15-8-11	305	3000000			
3.	StaffQuarters (6)	KVK	15-8-11	400	4000000			
4.	Demonstration Units	KVK +	31-3-07					
	of vegetable	ATMA	31-3-07	-	-		_	_
5	Training Hall	RKVY	20-2-10	190.99	1395800	-	-	-
6	Process Plant	RKVY	20-2-10	197.31	1536400	ı	-	
7	Implement shed	RKVY	11-2-10	77.33	297800	ı	-	-
8	Rain Water	KVK	31-3-2007	26m×26m (2Ponds)	999000			
	harvestingsystem	NVN	31-3-2007	60m×60m (1 Pond)	999000		-	-
9	Fencing	-	-	Not Available	-	-	-	-
10	Threshing floor	-	-	Not Available	-	1		-
11	Farm godown	-	-	Not Available	-	1	-	-
12	ICT lab	-	-	Not Available	-	-	-	-
13	Other	-	-	Not Available	-	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Totalkms. Run	Presentstatus	
Toyota Qualis	2004-05	490200	517768	Working	
(GJ-10G 433)	2004-03	490200	31//00	(it is required to be right off)	
Hero Hondasplendor (bike)	2010-11	46475	22835	Working	
GJ-10 BB-1634	2010-11	40473	22033	VVOIKIIIg	
Mahindra Scorpio	2019	1035000	10413	Working	
(GJ-10 GA-0535)	2019	1033000	10415	vvorking	

Page **2** of **51**

C) Equipments& AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Presentstatus
Captain Mini Tractor	2001-02	166125	Under process for
·			rightoff
Telephoneline	2001-02	19850	Working
Multi tool carrier complete set	2001-02	6500	Working
Photocopier	2001-02	125000	Working
Over headprojector	2001-02	17600	Working
Computer	2002-03	29500	Working
HP Laser printer	2002-03	20390	Working
U.P.S. (3 KVA)	2002-03	38000	Working
Spectrophotometer	2005-06	89160	Working
Flame photometer	2005-06		Working
Physicalbalance	2005-06	10640	Working
Chemicalbalance	2005-06	100000	Working
Water distillation still	2005-06	96118	Working
Kieldahi digestion and distillation	2005-06	49644	Working
Shaker	2005-06	80080	Working
Grinder	2005-06	00000	Working
Refrigerator	2005-06	16772	Working
Oven	2005-06	20550	Working
Hot plate	2005-06	30550	Working
Aspee tractor mounted sprayer	2006-07	32000	Working
Air assisted blower type sprayer	2009	98750	Working
Laptop computer (HCL)	2009	47500	Working
Digital camera (Nikon)P-90 12.1	2009	24300	Working
Cotton stalk shredder	2008-09	121000	Working
Groundnut digger-tractor operated	2009	78500	Working
Cultivator cum rotavator	2009	90000	Working
Groundnut decorticator	2009	95850	Working
Multi crop thresher	2009	114000	Working
Processing Unit	2009	1685000	Working
Plantar-tractor operator	2009	44000	Working
EPBX System	2012	44000	Working
Vertical Autoclave	2012	78190	Working
Laminar Airflow	2012	127440	Working
Electronic Balance (200 gm)	2012	12600	Working
EC/ Conductivity meter	2012	6300	Working
Portable pH Meter	2012	6300	Working
Compound microscope	2012	4410	Working
Trinocular microscope	2012	112000	Working
Digital temperature & humidity			Working
indicator cum controller	2012	34750	
Digital TDS meter	2012	3985	Working
Research centrifuse with accesaries	2012	42480	Working
Stabilizer	2012	10440	Working
Hot air oven	2012	41580	Working
BOD incubator	2012	46305	Working
Digital camera SLR (Canon)	2012	44750	Working
AC 1.5 tonn	2012	45990	Working
Mahindra Tractor 275 DI TU	2012	432000	Working

Sl.No.	Date	Number of Participants	Salient Recommendations	Action taken
1.	01-10-2005	21	-	-
2.	07-10-2006	30	-	-
3.	02-11-2007	31	-	-
4.	17-10-2008	30	-	-
5.	14-09-2009	33	-	-
6.	29-4-2010	35	-	-
7.	07.04.2011	37	-	-
8.	10.04.2012	32	-	-
9.	02.04.2013	37	-	-
10.	27.12.2013	26	-	-
11.	21.02.2015	25	-	-
12.	29.01.2016	22	-	-
13.	25.10.2016	27	-	-
14.	12.04.2018	30	-	-
15.	25.03.2019	35	-	-
16.	7.03.2020	36	As below	As below

Suggestions made by committee members during presentation of 16th SAC is as under:

- 1. Dr. V. P. Chovatiya, Hon'ble Vice Chancellor, Junagadh Agricultural University, Junagadh& Chairman of the SAC suggested following points.
 - ➤ Periodically send information through by mass SMS for contingency plant and weather effect to farmers. Arrange training on micro irrigation system
 - > Arrange FLD on latest variety of pearl millet
 - Arrange training on pink bollworm awareness during second quarter.
 - Analyze maximum soil and water sample at KVK Soil Testing Laboratory
- 2. Dr. B. K. Sagarka, Director of Extension Education, JAU, Junagadh advice that
 - Write down the record of success stories of different farmers success and highlight them
- 3. Dr. K. D. Mungara, Associate Research Scientist, Pearl Millet Research Station, JAU, Jamnagar suggested
 - > Arrange training on bakery products.
- 4. | Shri VitthalbhaiSanghani and JentibhaiParsana progressive farmers of Jamnagar suggested to
 - > Increase organic farming and advice about dangerousness effect of chemical on human being.

2. DETAILS OF DISTRICT

The district of Jamnagar is lies in North Saurashtra Agro climatic zone(VI) with an area of 35.02 lakh hectare land. The total geographical area of entire district (21.8 – 22 ON, 69.0 – 70.7 E) occupies 14125 km² i.e. 14.125 lakh ha area in the west of Gujarat state. The climate is arid (80%) and semi arid (20%) with a meanmoisture of 67.5. About 95 to 98% of annual rainfall comes during the monsoon month of June to October, July and August being the rainiest months. The co-efficient of variation ranges between 50 and 82%. The annual potential evaportranspiration ranges between 1500 and 1650mm, three times the precipitation, resulting in no flow in the ephemeral channels for the most of the year. The district is a water scarcity area droughts are common in this region draughts of moderate to severeintensity occur once in 2 to 3 years. Although the integrated drainage system from the story/rocky/gravelly surfaces and torrential nature

of precipitation generate 40 to 60% of rainfall as runoff, steeper slopes and absence of checks allow the water to quickly flow to the sea. Being is hard rock terrain, the groundwater potential is very low, is already over exploited and mined, resulting in either the saline water ingress in the costal aquifers, or drying up of the ground water up to a depth of 100m. Consequently a need for holistic approach to water resourcedevelopment the district. Wind velocity prevailing in the district is higher order (14.1 km) ha on an annual average basisdue to sea coast area.

According tophysiographically, majorportion of the area in the district have an altitude ranging between 25 to 150 meters, which consists ten taluka having gentle slope to moderate slope. The district is marked by radicaldrainage pattern. Deccantrap basalt occupies a major part of the district. The Quaternary formations includemilliolite, limestone, alluvium and Geolian sediments. The dominantland forms are colluvial plains and rocky uplands. Low hills occur in the southern part of district and are dissected by numerous large and small seasonal streams, most of which drain towards north and form potential drainage basins. The district is characterized by shallow, black soil and coastal alluvial soils with large variations in depth, texture, structure salinity, and water erosion. Nearly two third area of the district is under cultivation. The major factors of land degradationareaccelerated water erosion and Salinization.

Basicinformation of operational district, Jamnagar and DevbhumiDwarka:

Sr. No.	Details	JAMN	IAGAR	DEVBHUM	II DWARKA	
1	Total geographical area	6.075 lakh ha.		4.07509 lakh ha.		
2	Totalcultivablearea	4.32 lakh ha.		2.52 lakh ha.	•	
3	Netcultivatedarea	3.53 lakh ha.		2.38 lakh ha		
4	Totalareaunder forest	0.43 lakh ha.		0.1736 lakh ha		
5	Totalirrigatedarea	0.939 lakh ha.		0.23092 lakh ha		
6	Number of holdings	1.44 lakh		1.17 lakh		
7	Averageannual rainfall	550 mm.		550 mm.		
8	Soiltype	Medium black	Medium black		Medium black	
9	Totalnumber of villages	419 (8 city)		280 (8 city)		
	Totalpopulation	13.89 lakh (201	.1)	7.48 lakh (2011)		
10	(a) Male	7.18lakh .		3.84lakh .		
	(b) Female	6.71 lakh		3.64lakh .		
11	Literacypercentage	Rural	Urban	Rural	Urban	
11	a. Male	86.95	79.55	76.14	80.74	
	b. Female	76.22	62.18	55.41	61.36	
		6 (Six),		4 (Four)		
		Jamnagar		Jamkhambhalia		
12	Number of talukas	Dhrol		Jamkalyanpur		
12	Number of talukas	Jodiya		OkhaMandal (Dwarka)		
		Kalavad		Bhanvad		
		Lalpur				
		Jamjodhpur				

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

Z.I IVIG	2.1 Major farming systems, enterprises (based on the analysis made by the kvk)						
S. No		Farming system/enterprise					
1	Crops	Cereals : Pearl millet, Sorghum, Wheat, Maize					
		Pulses	:	Greengram, Blackgram, Chickpea, pigeonpea			
		Oilseeds	Oilseeds : Groundnut, Sesamum, Castor, Mustard,				
		Cash crops	:	Cotton,			
		Spices and	: Cumin Fonnol Coriandor aiwan Ishahgul				
		condiments	•	Cumin, Fennel, Coriander, ajwan, Ishabgul			

		Vegetables Horticulture		Onion, garlic, potato, chilli, binjal, tomato, cauliflower, Cowpea, cabbage, okra, peach, cucurbits etc
				Chiku, pomegranate, lemon (Citrus), Jamun, Aonla, guava, custard apple, papaya, coconut, ber, Almond, Banana, Dragon fruit, Drum stick
		Floriculture	:	Rose, merry gold, vevanti, etc
	Other Crops		:	Chikori, Fenugreek, Mulberi neem
2	Live	Bullocks and cows		
	stock	Buffaloes		
		Sheep		
		Goats		
		Horse and camel		
		Poultry		
		Others animals		
3.	Fishery	340 km coastal belt		4832 tonnes fish production

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

S. No	Agro- climatic Zone	Characteristics
Zone–	North	The influence area of North SaurashtraAgroclimatic Zone is spread among five districts
VI	Saurashtra	viz., Amreli (7 taluukas out of 10), Bhavnagar (7 talukas out of 14), Jamnagar (all the 10
		talukas), Rajkot (9 talukas of 13) and Surendranagar (6 talukas out of 9) covering 39 talukas
		in all. The influence area of the zone lies between 21°-02' to 23°-16' North Latitude and
		68°-56' to 72°-12' East Longitude. It is founded in the north by the Gulf of Kutch and parts
		of Rajkot as well as Surendranagar districts, in the East by the Ahmedabad district and
		ncoastal part of Bhavnagar district, on the South by the Junagadh district and parts of
		Amreli as well as Rajkot district, to the west by Arebian sea.
		The North Saurashtra region which comprises the peninsular part of Gujarat has low to
		medium rainfall and shallow to medium black soils and also coastal saline alluvial soils. In
		this Agro-climatic zone, cotton (Bt), groundnut, pearlmillet, wheat are the major crops
		which contribute considerably to the economy of the state. In Saurashtra, among this
		zone taking in to consideration the rainfall pattern, the topography, soil characteristics, the
		climate and the cropping pattern have been identified in Gujarat. The North Saurashtra
		zone have five main / sub station cum testing centre of University like Dry Farming
		Research Station with KVK, Targhadia (Rajkot District), Main Millet Research Station with
		KVK, Jamnagar, Oilseeds Research Station (Sesamum, Mustard, Sunflower) with KVK,
		Amreli, Dry Farming Research Station, Nanakandhasar, (Surendranagar District) and Dry
		Farming Research Station, Jamkhambhalia (Jamnagar District).

b) Topography

Agro – Ecological situation in the District

The advent of southwest monsoon greatly influences seasonal patterns of rainfall distribution in the district. Thus, meanannual rainfall provides useful comparison of agricultural potential of a given situation in the district. The mean rainfall in the district 539.17mm

The physiography of entireregion of district is more or less flat. However, the region is undulating with slopes having little hillyareasfrom 25 to 150 meters Physical features of the area vary from flat landto 150 meters above mean sea level. Most of the area falls in the range of 25m to 150m above mean sea level.

Based on the soilsurveyinformation of the zone, the soils of the district hence been broadly classified in tofine categories Available information about the properties of these soils and their textures has been considered. The types of soils categories are as under: -

Shallow black soils

Medium black soils

Saline alkali soils

Costal alluvial soils

Hilly soils

While delineating the zoneintodistrict agro ecological situations, there major factors including varioussoil types, altitude and the rainfall patterns have primarily been considered. The district can be delineated into five agro ecological situations.

Although, each of the situations has rainfed and irrigated condition, but irrigationhas not been considered in identification of the agro ecological situations. While deciding the major crops, cropping patterns and constraints in production, mention has been made of both these conditions one or the other agro ecological situation occurs in the influencearea of the district. The fact that this does not preclude the existence of more than one agro ecological situations within the same area.

CAISE	existence of more than one agro ecological situations within the same area.								
SI. No.	Agro EcologicalSitu ation	Soiltext ure	Altitud e	Principal crops	Specialfeatu res	Approximate area (000ha)	Taluka included	Characteristi cs	
AES- 1	Shallow Black soils with 500-600 mm Rainfall	Sandy clay loam to clayey	75 – 150	Groundnut, wheat, sorghum, pearlmillet	Well drained soils with rapid permeability	124	Kalawad, Jamjodhpur, Bhanvad, Okha	Moisturestre ss, temperatures tress	
AES- 2	Shallow Black soils with 600-700 mm Rainfall	Clayey	75 – 150	Groundnut, wheat, sorghum, pearlmillet	Slightly well drained soils with rapid permeability	180	Part of Kalyanpur, Jamnagar, Jamkhambhalia, Lalpur, Dhrol, Jodia	Moisturestre ss, temperature stress	
AES- 3	Coastal Alluvial soils with 300-400 mm Rainfall	Clayey loam to clayey	50	Groundnut, pearlmillet, sorghum, chickpea	Low nitrogen and phosphus	181	Jodia, part of Okha, Jamkhambhalia, Kalyanpur& Jamnagar	Salt affected salinity	
AES- 4	Coastal Alluvial soils with 500-700 mm Rainfall	Silt clay	25-50	Groundnut, pearlmillet, sorghum, chickpea	Low nitrogen and phosphorus	299	Kalyanpur, Jodia& Jamnagar, Khambhadia, Lalpur, Dwarka	Salt affected salinity	
AES- 5	Coastal Alluvialshallo w black soils with 300-400 mm Rainfall	Sandy loam toclay loam	0-25	Sorghum, Pearlmillet, Groundnut, Sesamum	Aridclimate	31	Okha	Known salinityforgen us ephedra seacoast very rich in Alghlflor and fanner of economic importance.	

2.3 Soil type

As the geographical formation of Saurashtra is to volcanic origin, the soils are generally desiredfrom basaltic rock known as Daccan trap. This is the commonest rock in India and due to its extensive occurrence in south is called "Daccan Traps". In many parts, they6 have flat top features and hence, are also known as plateau basalt. The trap rocks, which occupy a large part of western cost of India, is also covering North Saurashtra zone. The most common colour of the trap rock in the region is dark grey. On weathering, trap rock form a ferruginous gravelly material known as murrum, which under lie-soil formed in situ. Soils, thus derived are either brown red in colour or regular, the black soil. In district black or brown colour is predominant. The soils are shallow to moderately deep. The detailed soil survey information for the soils of Jamnagardistrict are as under.

S. No	Soiltype	Characteristics	Area in ha
1	Shallow	These soils have developed from basaltic trap especially from granite and	124000 ha
	black	gneiss parent materials. They light grey in colour. Taxonomically, they are	(Kalawad,
	soils	classified as <i>Ustorthents</i> and <i>Ustochrepts</i> . Soils depth varies for cm to 45 cm.	Jamjodhpur,
		They are gravelly but mainly they are sandy clay loam to clayey in texture. The clay on tent in surface soil varies from 20% to 77.49% and calcium carbonate	Bhanvad,
		content varies from 3.76 to 26.71 per cent. The soil structure is weak, mainly	Okha)
		sub angular blocky and occasionally crumb. Since these soils lack district profile	
		layering and are shallow, capacity to retain moisture is not sufficient.	
		The soils are neutral to alkaline in reaction p^H ranges from 7.3 – 8.4) and	
		from fertility point of view, these are medium in available nitrogen, low to	
		medium in available phosphorus and adequate in availability of potash.	
2.	Medium	The major portion of Jamnagar (Some part of Kalyanpur, KHambhaliya&	180000 ha
	black	Jamnagar, major part of Lalpur, Dhrol, Jodiataluka is covered under medium	(Part of
	soils	black soils. These residual soils have basaltic trap parent materials. These soils vary in depth from 30 to 60 cm or more at few places. They are calcareous in	Kalyanpur,
		nature. A layer of murrum (Unconsolidated material of decomposed trap and	Jamnagar,
		limestone) is generally found in sub soil layer. The drainage does not pose any	Jamkham-
		problem, because of porous sub soil layer.	bhalia, Lalpur,
		Morphologically, the profile of these soils has A-C horizon characteristics,	Dhrol, Jodia)
		having moderate sub angular blocky structure. They are plastic and sticky and	
		hard in consistency on drying. The colour of these soils varies from very dark	
		brown to light grey. Taxonomically, these soils are classified as <i>Ustochrepts</i> in	
		<i>Inceptisol</i> order. The soils are dominated by smectite group of clay minerals	
		which give to mild cracking in dry season, due to which these are further classified as <i>Vertic – Ustochrepts</i> at sub group level.	
		The soils are clay loam to clayey in texture. The souls are highly retentive of	
		moisture because higher percentage of clay content. The percentage of clay	
		content in the surface varies from 31.79 to 73.27 per cent, while no definite	
		trend of clay content in different horizon of the profile is observed.	
		The chemical composition of these soils is neutral to alkaline reaction ($p^H7.4$	
		to 8.9). Calcium is the dominant exchangeable cation followed by magnesium.	
		The soils are generally low to medium in available nitrogen, phosphorus and	
		adequately supplied with potassium. The calcium carbonate contents various	
3.	Saline	from 5.26 to 20.36 per cent in these soils. Saline alkali souls are extensively distributed on the coastal are3a as well as	181000 ha
]		inlands. These soils are located in the districts of Jamnagar (Jodia, part of	(Jodia, part of
	S	Okhamandal, Kalyanpur, Jamkhambhaliya and jamnagartalukas). These soils	Okha,
		are originated as a result of higher water table, low rainfall and high	Jamkhambhali
		evaporation losses during summer months resulting into upward movement of	a, Kalyanpur&
		salts, poor drainage, use of saline ground water and ingress of sea water (in	

		coastal areas). The souls are classified as <i>Fluvaquents, Halaquents</i> , and <i>Haplaquents</i> (Entisol): <i>Haplaquents</i> and <i>Haptaquepts</i> in order – <i>Inceptisol</i> . Texturally these soils vary from sandy loam to clay. The degree of salinity and alkalinity is also highly variable. In Jamnagar district, the saline and alkaly soils are widely distributed mainly termed as coastal soil. The soils are sandy loam to clay loam in texture. The EC varies from 1.54 to 38.6 m.mhos/cm and ESP ranges from 9.2 to 74.64% in surface soil. The p ^H varies from 7.6 to 9.00 in surface soils and normally calcareous in nature. Most of these soils are low to medium in available nitrogen and phosphorus and high in available potash.	Jamnagar)
4.	Costal alluvials oils	these soils are located in the district of Jamnagar consisting Kalyanpur, Jodia and Jamnagar, Jamkhambhadia, Lalpur, Dwarka (OkhaMandal) and Dhrol, talukas. These soils are sandy clay loam to clay in texture. These soils are also affected with salts and are saline sodic in nature. The surface soil varies from 1.54 to 38.6 m.mhos/cm in Electrical conductivity, and from 9.2 to 74.64 in Exchangeable sodium percentage. The soil reaction varies with situation ranging from moderately alkaline or highly alkaline (p ^H 7.6 to 9.0). The souls are normally medium in fertility. Taxonomically, these souls are classified as <i>Halaquents</i> and <i>Haplaquents</i> – Entisol and <i>Helaquepts</i> and <i>Hapdaquents</i> in Inceptisol order.	299000 ha (Kalyanpur, Jodia& Jamnagar, Khambhadia, Lalpur, Dwarka)
5.	Hilly soils	These soils occur in some parts Bhanvad and Jamjodhpurtalukas of Jamnagar district. Because of the steep slope and erosion, the profile is not developed. These soils are developed because of weathering of parent materials existing basaltic trap limestone and sand stone. These soils are shallow to moderately deep and are coarse to find in their texture. The texture varies from loamy sand to clay loam to clay. They have under composed rock fragments and are low in fertility status. These soils are placed in to <i>Ustorthents</i> and those near foothills and valley are comparatively deeper can be placed under <i>Ustochrepts</i> and can be classified under estisol and <i>Inceptisol</i> orders respectively.	31000 ha (Some part of Bhanvad and Jamjodhpur)

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

S. No	Crop	Area (ha)	Production (QtI)	Productivity (Qtl /ha)
	Oilseeds			
1	Groundnut	378335	5675025	15
2	Sesamum	6280	22608	3.6
3	Castor	7375	192487.5	26.1
4	Soybean	8	140	17.5
	Total Oilseeds	391998		
	Cash Crops			
5	Cotton	180440	4150120	23
6	sugarcane	150	7500	50
	Total Cash Crops	180590		
	Food Grain			
7	Wheat	58600	1881060	32.1
8	Pearlmillet	3520	46112	13.1
9	Sorghum	8100	85050	10.5
10	Maize	2850	20520	7.2
	Total Food Grains	73070		
	Pulse Crops			
11	Greengram	4185	23436	5.6
12	Blackgram	2910	17867.4	6.14
13	Cowpea	285	1071.6	3.76
14	Pigeon pea	175	1925	11
15	Moothbean	360	1512	4.2
16	Chickpea	31300	350560	11.2

17	Cluster bean	75	1406.25	18.75
18	Other pulses	15	0	
	Total Pulses	39305		
	SPICES AND CONDIMENTS			
19	Cumin	4300	36550	8.5
20	Fenugreek	90	1410	15.7
21	Coriander	2300	33350	14.5
22	Ajwan	5015	42630	8.5
24	Chilli	1550	29450	11.9
25	Garlic	600	47700	79.5
23	Total spices	13855	191090	73.3
	VEGETABLE	13833	0	
27	Onion	200	40800	204.0
28	Potato	100	14650	146.5
29	Brinjal	1755	324680	185.0
30	Tomato	2355	701790	298.0
31	Cauliflower	97	14250	146.9
32	Cowpea	788	58940	74.8
33	Cabbage	811	136570	168.4
34	Okra	2790	200880	72.0
37	Cucurbits	1445	236110	163.4
38	Cluster bean	4524	436570	96.5
39	Other vegetable	160	17680	110.5
	Total Vegetable	15025	2182920	
	FRUIT CROPS		0	
40	Chiku	249	28810	115.7
41	Pomegranate	565	50290	89.0
42	Citrus	257	19040	74.1
44	Aonla	35	2100	60.0
45	Guava	12	520	43.3
46	Custard apple	65	4910	75.5
47	Papaya	483	301880	62.5
48	Coconut	505	42470	84.1
49	Ber	351	33270	94.8
50	Kharek	91	4550	50
51	Banana	44	19360	440.0
		470	+	61.0
52 53	Mango Cashow put		28670 40.0	10.0
	Cashew nut	4		
54	Other fruits	177	13890	78.5
55	Total Fruits	3308	549800	
56	FLOWERS		0	02.2
57	Rose	66	6150	93.2
58	Merry gold	140	11450	81.8
60	Jasmine	3	260	86.7
62	Lilly	2	170	85.0
63	Other flowers	165	14650	88.8
	Total flowers	376	32680	
	OTHER CORPS		0	
64	Chikori	50	4325	86.5
65	Palma Rosa	43	5375	125
	Total Other crops	93		
	Fodder crops			
67	Lucern	1105	132600	120
68	Sorghum	16660	2499000	150
69	Maize	2910	0	
09				

^{*} Source : DAO, &Dy.Dir.Hort., Jamnagar

2.5. Weather data (Jan. to Dec.-2020)

Weekly mean Weather data-at JAU, Jamnagar during-2020 Week No. Temp. °c R H % WS RSS Fo Rain Rai									
Week No	10	, c		R.H.%	WS	BSS	Eo	Rain	Rain
	Max	Min	I	II	(kmph)	(hrs)	(mm)	(mm)	Day
1-J	25.3	12.5	76	42	6.3	6.6	3.6		
2	24.9	12.5	75	37	6.7	7.5	3.9		
3	22.9	9.4	76	36	5.4	9.8	4.0		
4	26.5	13.0	77	31	5.8	9.2	3.9		
5	25.8	10.0	88	37	5.5	9.7	3.5		
6-F	26.7	13.3	67	27	6.9	9.9	4.5		
7	30.8	16.2	74	30	5.2	9.1	5.7		
8	31.1	15.8	73	28	5.8	9.3	5.8		
9	32.3	17.1	82	32	5.4	9.1	6.1		
10-M	29.3	16.8	78	36	8.2	9.6	6.1		
11	30.6	16.6	55	22	7.9	9.8	6.3		
12	33.1	20.1	85	40	7.8	8.9	7.0		
13	32.2	21.0	78	35	7.8	7.2	7.0		
14-A	36.7	21.4	80	28	7.5	10.1	8.6		
15	37.1	23.5	79	38	8.3	10.2	9.0		
16	36.0	24.2	82	41	9.8	9.9	8.8		
17	35.9	24.7	79	45	11.6	11.1	9.0		
18	36.4	25.5	79	50	12.3	11.4	9.2		
19-M	37.4	25.4	79	53	11.5	11.4	9.9		
20	36.0	25.4	74	42	12.4	11.3	9.5		
21	37.3	25.7	80	48	14.3	11.4	9.9		
22	37.6	27.4	76	50	14.7	11.0	10.3		
23-J	36.7	26.5	78	59	9.8	8.1	9.6	4.5	1
24	36.8	27.5	82	54	9.3	5.6	7.9	6.5	1
25	37.4	26.5	88	63	9.4	7.4	7.9	26.5	4
26	35.6	36.6	86	66	8.3	7.6	6.9	56.0	3
27-J	33.8	25.8	91	77	10.2	5.0	4.8	373.0	4
28	32.7	26.0	89	75	8.5	5.0	4.9	43.5	3
29	34.3	26.3	86	69	7.7	7.8	5.9	9.0	1
30	34.3	26.0	88	64	7.7	6.7	6.1	31.5	3
31	34.6	26.4	90	65	5.9	7.6	6.5	6.1	1
32-A	32.3	25.4	91	85	8.9	2.6	5.8	44.0	4
33	30.0	25.2	93	89	9.2	0.5	4.4	63.3	6
34	30.4	24.9	94	86	8.8	2.0	4.0	164.0	5
35	30.5	24.0	95	79	8.4	3.0	3.9	292.0	5
36-S	33.1	25.1	89	65	4.8	9.5	5.1		
37	33.4	24.9	88	72	4.3	5.8	5.4	97.5	3
38	33.4	25.5	87	70	5.8	7.5	5.4	0.6	
39	33.5	24.0	84	63	5.8	7.2	5.6		
40-O	33.5	23.8	84	59	4.6	9.2	5.6		
41	36.0	24.0	81	37	3.8	9.7	6.6		
42	35.1	25.9	79	54	5.0	6.8	6.3	6.8	1
43	34.5	20.9	73	30	3.3	9.7	5.4		
44	33.2	17.6	66	32	3.3	9.4	5.0		
45-N	32.7	17.3	70	32	3.2	9.1	4.7		
46	31.1	17.6	63	35	4.8	8.8	4.4		
47	29.1	14.0	66	29	4.1	9.2	3.9		
48	28.7	17.2	64	35	8.0	8.9	4.4		
49-D	31.1	16.0	81	34	2.9	8.9	4.6		
50	28.0	16.4	74	36	5.8	7.9	4.1		
51	26.4	12.9	64	30	6.5	8.6	3.9		
52	26.4	11.2	64	23	5.1	9.1	3.9		
Mean	32.3	20.9	79	48	7.3	8.2	6.0	1224.8	45
Highest	37.6	27.5	995	89	14.7	11.4	10.3		
Lowest	22.9	9.4	55	22	2.9	0.5	3.5		

^{*} Source: Meteorological observatory, Millet Research Station, JAU, Jamnagar

2.6. Production and productivity of livestock, Poultry, Fisheriesetc.in the district

Category	Population	Production	Productivity
Cattle	349229	2475.2 qtl. total milk	
Crossbred			8.585 lit/day
Indigenous			3.375 lit/day
Buffalo	209616		4.451 lit/ha
Sheep	232530	295.16 lakh kg wool	
Crossbred			
Indigenous			
Goats	173022		0.274 lit/ha
Pigs		290097.9 Qtl meat	
Crossbred			
Indigenous			
Poultry	38041	12.77 lakh eggs	
Hens			
Desi			
Improved			
Horse &	410		
Camels	2260		
Donkey	2577		
Total Milk			
Total egg			
Total wool			

Category	Area	Production	Productivity
Fish			
Marine			
Inland			
Prawn			
Scampi			
Shrimp			

Source: Assistant Directorate of Fishries, Jamnagar

2.7 Details of Operational area/ Villages (2021 to 2023)

	betails of	Operational area/	Villages (LOL	1 10 2023,	
SI No	Taluka	Name of the village	Major crops & enterprises	Major problem identified	Identified thrust area
1	Dhrol	Katada, Jayva, Mansar (Jaliya), Kharva, Khendgarka	Cotton, groundnut, sesame, castor,	Heavy infestation of sucking pest in cotton, stem rot	ICM in major crops of the districtOrganic crop production
2	Jam Jodhpur	Bhupat Ambardi, Dal	greengram, wheat, Gram, cumin, mustard,	disease&whitegrub in Groundnut, Root rot in castor, Less area under	•
3	Jam Khambhalia	Keshod, Shedha Bhadthar, Samor, Jakasiya, Juvangadh	Vegetable, Soyabean, flowers, live- stock, fisheries	horticulture crops, Blight in cumin, salinity, pink bollworm in cotton	cultivation - Soil Reclamation - Farm women empowerment - Farm mechanization

2.8 Priority thrust areas

SI. No	Crop/ Enterprise	Thrustarea
1.	Cotton, groundnut, castor, cumin, coriander,	Integrated Crop Management in major cropsIPM & IDM in major field crops
	wheat, vegetables, fruits,	Whitegrub management in Groundnut

	etc.	 Wireworm management in garlic & Onion Micronutriet management in wheat
2.	Organic farming	Enhancement of organic farming through improved technologies
3.	Farm waste/ organic matter	Recycling of farm waste through composting, vermicompost, green manuring, etc.
4.	Micro irrigation	Efficient use of water by micro irrigation system, water harvesting structure, and water conservation techniques
5.	Soil	Reclamation of saline & alkaline soils
6.	Farm Women	Farm women empowerment by training in value addition, handi crafts, and small scale enterprises
7.	Fisheries	Fish Farming
8.	Improved Implements	Popularization of the mechanized technological know how
9.	Plant protection	Pinkboll worm in cotton and white grub in groundnut,
10	Horticultural area	Enhancement of pomegranate, datepalm, draganfruit,
11.	Storage facility	Requirement of storage techniques and value addition in farm produce
12.	Water conservation & use of Micro irrigation	Efficient use of water by micro irrigation system, water harvesting structure, and water conservation techniques

3. TECHNICAL PROGRAMME

3.1. Details of targeted mandatory activities by KVK

0	FT	FLD			
(1)	(2	2)		
Number of OFTs	Number of Farmers	Area (ha)	Number of Farmers		
5	17	102	308		

Tra	ining	Extension Activities			
	3)	(4)			
Number of Courses	Number of Participants	Number of activities	Number of participants		
38	965	192	18166		

Seed Production (Qtl.)	Planting material (Nos.)	Fish seed prod. (kg)	Soil Samples
(5)	(6)	(7)	(8)
138.5	1700	0	350

3.1. B. Operational areas details proposed during 2021

3.1. B. Operational areas details proposed during 2021

S.No.	Major crops & enterprises	Prioritized problems in these crops/ enterprise	Extent of area (Ha/No.)	Names of Cluster Villages identified for	Proposed Intervention (OFT,
	being		affected by	intervention	FLD, Training,
	practiced in		the problem		extension activity
	cluster villages		in the district		etc.)*
1	Groundnut	Lower yield, replacement of old	295000 ha.	Dhrol :-Katada, Jayva,	OFT, FLD and
		variety		Mansar (Jaliya),	Training
				Kharva, Khengarka;	
				Jam Jodhpur :-	
				Sonvadiya, Satapar,	
				Bhupat Ambardi, Dal	
				Devaliya Luvarsar;	
				Jam Khambhalia :-	
				Keshod, Shedha	
				Bhadthar, Samor,	

				Jakasiya, Juvangadh	
2	Chilli	Thrips, Curling of leaves, nutritional deficiency	1600 ha	- " -	Training
3	Garlic	Puple blotch, wireworm, yellowing, tip burning	7500 ha	_ " _	Training
4	Sesame	Leaf webber, mite, blight, stem rot, root rot, yellowing, replacement of old variety	11500 ha.	_ <i>a</i> _	OFT, FLD and Training
5	Wheat	Fall army worm, Stem borer, Termite, nutritional deficiency,	58000 ha	_ " _	FLD and Training
6	Vegetabe mittens (Okra, Brinjal)	Drudgery reduction, cut & wounds, skin hardness, blisters and abrasions,	3000 ha	_ " _	FLD and Training
7	Animal Husbandry	Due to inadequate nutrients in the daily ration, the % fat in milk and productivity of the animal decreased hence, financial loss.	Majority farmers (350000)	_ " _	FLD and Training
8	Cotton	Pink bollworm, redding & yellowing of leaves, sucking pests, weevil,	180440		FLD and Training
9	Chicory	ICM	50		FLD and Training
10	Cumin	Aphid, thrips, wilt, powdery mildew and cumin blight, INM, variety	4650		OFT, FLD & Training
11	Ajwain	IDM, Variety	4500		FLD and Training
12	Coriander	Aphid, powdery mildew, IDM, IPM, Variety	4000		FLD and Training
13	Pearl millet	Variety, IPM, IDM	3520		FLD and Training
14	Chick pea	IPM, Variety, wilt, stund virus,	31300		FLD and Training
15	Kitchen	Nutritional security	Majority		FLD and Training
	gardening		farmers		

^{*} Support with problem-cause and interventions diagram

3.2. Technologies to be assessed and refined

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

Thematic areas	Cereals	Oil	Pulses	Commercial	Vegetables		Plantation		TOTAL
	00.00.0	seeds		Crops	1 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	 	crops	Crops	
Varietal Evaluation		2							2
Seed / Plant production									
Weed Management									
Integrated Crop Management									
Integrated Nutrient Management									
Integrated Farming System									
Mushroom cultivation									
Drudgery reduction									
Farm machineries									
Value addition									
Integrated Pest Management		2							2
Integrated Disease Management									
Resource conservation technology									
Small Scale income generating									
enterprises									
TOTAL		4							4

A.2. Abstract on the number of technologies to be refined in respect of crops

A.Z. Abstract on the r	M2. Abstract on the number of technologies to be refined in respect of crops									
Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Kitchen garden	Tuber Crops	TOTAL
Varietal Evaluation										
Seed / Plant production										
Weed Management										
Integrated Crop Management										
Integrated Nutrient										
Management										

Integrated Farming System						
Mushroom cultivation						
Drudgery reduction						
Farm machineries						
Post Harvest Technology						
Integrated Pest Management			1			1
Integrated Disease						
Management						
Resource conservation						
technology						
Small Scale income generating						
enterprises						
TOTAL			1			1

A.3. Abstract on the number of technologies to be assessed in respect of livestock / enterprises

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

A.4. Abstract on the number of technologies to be refined in respect of livestock / enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	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 Trial / Technology Assessment during 2021

S. No.	Crop/ enterpri se	Prioritized problem	Title of OFT	Technology options	Source of Technology	Name of critical input	per	per	No. of trials	Total cost for the OFT (Rs.)	Parameters	Team memb ers
1				1. Injudicious use				1200	3			Dr. K.
		the leaf webber infestation in sesame	sesame leaf	of insecticides. (Spray insecticides at weekly interval) (FP) 2.Application of the insecticide will be start at pest infestation occurred. Cartap hydrochloride 50% S.P. @ 10g/10 Liter of water at the time of		hydrochlo ide,	gm				larvae per 1 meter, yield	

2	Sesam e	Low Yield, Introduct ion of new high yielding variety,	Assessme nt of the performa nce of high yielding Sesame varieties in summer irrigated condition for Jamnagar District	infestation. (Rec. P.) 3. Spray of Beauveria bassiana @ 5 g/lit of water at 15 days interval at pest initiation. 1 G. Til 2 2 G. Til 3 3 G. Til 5	JAU, Junagadh	Seed	1 kg see d of bot h vari ety	50	3	150 0	Yield (Kg/ha), Plant Height (cm), Capsule per plant, 1000 seed weight (g), Maturity days, Economic s	Shri. V.L.K ikani Scie ntist (Agr ono my)
3	Groun	Low yield in existing variety, Enhancin g productivity	Assessme nt of suitable high yielding Groundnu t Variety in kharif season for Jamnagar District	1 GG-20 1 GJG-22 2 GJG-32	JAU, Junagadh	Seed	30 kg see d of bot h vari ety	50 00	3	150 00	Pod & Haulm yield (kg/ha), Plant Height (cm), No. Of branches per plant, No. of pods per plant, 100 pods weight (g), 100 kernel weight (g), Economic s	Shri. V.L.K ikani Scie ntist (Agr ono my)
	Groundn ut	Heavy attack of storage pests		storage godown 2.Local practices for storage in plastic bag	JAU, Junagadh Formerly it was from ICRISAT, Hyderabad	Storage"(P		270	5		1. Weight loss 2. Insect	A.K.Ba raiya and Dr. K.P.Ba raiya

OFT-1 Sesame (Assessment)

Title: Management of sesame leaf webber

Objective: To manage the leaf webber infestation in sesame

Problem definition: attack of leaf webber is increase ➤ Heavy infestation of leaf webber was found

- Improper cultivation practices

Lack of knowledge about pest outbreaks and its management

Problem diagram :-

Improper cultivation practices		Irregular irrigation
Mono-cropping system		Lack irrigation facilities
No adoption of recommended	Management of	Lack of knowledge about pest
practices	sesame leaf	outbreaks and its management
Crop failure due to water		In judicious use of chemical
logging condition in rainy season	webber	pesticide
Farmer follows instruction given		Heavy incidence of pest and
by the local pesticides retailer		disease attack

Treatments:

- 1. Injudicious use of insecticides. (Spray insecticides at weekly interval) (Farmers practices).
- 2. Recommended practices Application of the insecticide will be start at pest infestation occurred. Cartap hydrochloride 50% S.P. @ 10 g/10 Litre of water at the time of infestation.(Recommendation)
- 3. Spray of Beauveria bassiana @ 5 g/lit of water at 15 days interval at pest initiation. (Refinement)

No. of Replication: 3 (Farmers)

Observations:

- 1. Record no. of larvae per plant/1 meter row length.
- 2. Yield data.

OFT :-2

Title :Assessment of the performance of high yielding Sesame varieties in summer irrigated condition for Jamnagar District

Objective: To find out suitable high yielding sesame variety for summer irrigated condition **Problem definition:**

- 1. Low yield.
- 2. Threat to the sustainability of crop production
- 3. High cost of production
- 4. Shortage of irrigation water

Problem diagram :-

Improper cultivation practices	Assessment of the	Multi season cropping system
Low yielding variety	performance of high yielding	Irregular irrigation/ irregular rainfall
Lack of knowledge about balance	Sesame varieties in summer	Lack of knowledge about pest
use of nutritional recommendation	irrigated condition for	outbreaks and its management
High Wind velocity	Jamnagar District	In judicious use of chemical fertilizer

Treatments:

- 1. T₁:- G. Til 2
- 2. T₂:- G. Til 3
- 3. T₂:- G. Til 5

No. of Replication :- 3 (Farmers)

Source of Technology: - Junagadh Agricultural University, Junagadh

Thematic area: Varietal evaluation

Observations:-

- 1. Yield (Kg/ha),
- 2. Plant Height (cm),

- 3. Capsule per plant,
- 4. 1000 seed weight (g),
- 5. Maturity days,
- 6. Economics

OFT:3

Title: Assessment of suitable high yielding Groundnut Variety in kharif season for Jamnagar District

Objective:: To find out suitable high yielding groundnut variety for kharif season

Problem definition:

- 1. Low vield.
- 2. Threat to the sustainability of crop production
- 3. High cost of production
- 4. Lack of well distributed rainfall & low rainfall

Problem diagram :-

Improper cultivation practices		Multi season cropping system
Low yielding variety	Assessment of	Mono-cropping system
Irregular rainfall	suitable high	Lack of knowledge about nutrient
irregulai raiiliaii	yielding	management
Heavy incidence of pest and disease	Groundnut Variety	In judicious use of chemical fertilizer
attack	in kharif season for	in judicious use of chemical fertilizer
In judicious use of pesticide	Jamnagar District	Heavy infestation of white grub was
in judicious use of pesticide		found

Treatments:

- 1. T₁:- GG-20
- 2. T₂:-GJG-22
- 3. T₃:-GJG-32

No. of Replication :- 3 (Farmers)

Source of Technology: - Junagadh Agricultural University, Junagadh

Thematic area: Varietal evaluation

Observation:

- 1. Pod & Haulm yield (kg/ha),
- 2. Plant Height (cm) at harvest time,
- 3. No. of branches per plant,
- 4. No. of pods per plant,
- 5. 100 pods weight (g),
- 6. 100 kernel weight (g),
- 7. Economics

OFT: 4

Title : Assessment of PICS bag for Groundnut storage Objective :

- 1. To provide sustainable and ecologically safe approach to preserve groundnut pods
- 2. To Reduce storage loss in groundnut seed
- 3. To increase storage period

Problem Definition:-

- 1. Residual effect of insecticides used for stored godown
- 2. Insecticidal effect on germination
- 3. High moisture retention during summer days
- 4. Heavy attack of storage pests
- 5. High cost of storage
- 6. Heavy loss of food grains and seeds
- 7. Lack of regular inspection in stored products.

Problem Diagram:

Lack of regular inspection in stored		High cost of storage
products		
Heavy loss of food grains and seeds	Assessment of PICS	Heavy attack of storage pests
Residual effect of insecticides used for	bag for Groundnut	Insecticidal effect on germination
stored gowdown	storage	
High moisture retention during summer		
days		

Treatment

T₁-Farmer Practices (Open heaps in storage gowdown)

 T_2 —Local practices for storage in plastic bag /closely woven bag

T₃-Storage in Triple layer hermetic "Purdue Improved Crop Storage" (PICS) bags

No. of Replication/farmers :- 5 (Three bags/farmers)

Source of Technology: JAU, Junagadh Formerly it was from ICRISAT, Hyderabad

Observation: Post (after six month) storage

3. Weight loss

4. Insect (Bruchid)damage

Details of On Farm Trial / Technology Refinement during2021

_==				rechnology Kermement	uu	<u> </u>						
S. No.	Crop/ enter prise	Prioritized problem	Title of OFT	Technology options	Source of Techn ology	Name of critical input	Qty per trial	Cost per trial	No. of trial s	Total cost for the OFT (Rs.)	Parameters to be studied	Tea m me mbe rs
6	Cumi	То	Manag	1. Farmer's Practices :-		-			3	3600	1.aphid	Dr.
	n	minimize	ement	Injudicious use of insecticides.							populatio	K.P.
		the	of	[use of deltamethrin,							n (aphid	Bara
		infestation	aphid	flubendiamide, imidacloprid,								iya
		of aphid in	in	acetameprid, Thiamethoxam,							index)	
		Cumin,	cumin.	cypermethrin,							from five	
		To		lamdacyhalothrin, carbosulfan,							randomly	
		increase		dimethoate after infestation of							selected	
		production		aphid repeatedly at weekly							plants	
		To reduce vield loss		interval without follow ETL] 2. Recommendation :- First	SAU	Carbosulfa	500	900	3		from each	
		of Cumin		2. Recommendation :- First spray of Carbosulfan 25 EC			ml	900	3			
		or cullilli		0.04% was made at initiation of		n	1111				plot at 7	
				pest and second spray was							days after	
				given after 15 days.							spray	
				3. Refinement:- First spray of	SAU	Bearuveria	2 kg	300	3		2.yield.	
				Spray of <i>Bearuveria bassiana</i> @		bassiana	6					
				5 g/lit of water was made at								
				initiation of pest and								
				subsequent spray at 15 days interval.								

OFT-5 (Refinment)

Title: Management of aphid in cumin.

Objective: To minimize the aphid incidence in cumin. To reduce injudicious use of chemical pesticide. To minimize residual effect of chemical.

Problem definition:

- 1. Heavy infestation of aphid was found
- 2. Lack of seed treatment and improper cultivation practices
- 3. Lack of knowledge about pest outbreaks and its management
- 4. Injudicious use of nitrogenous fertilizer
- 5. Extra irrigation rather than recommendation during cloudy weather.
- 6. Overlapping of the crops seasons

Problem diagram :-

Resurgence of aphid		Multi season cropping system
Overlapping of the crops		Lack of knowledge about pest outbreaks
seasons	Management	and its management
Lack of seed treatment	of aphid in	Lack of improper cultivation practices
In judicious use of pesticide	cumin	In judicious use of nitrogenous fertilizer
Extra irrigation		Improper use of FYM (without
Extra irrigation		decomposition)

Treatments:

1. **Farmer's Practices**:-Injudicious use of insecticides. [use of deltamethrin, flubendiamide, imidacloprid, acetameprid, Thiamethoxam, cypermethrin, lamdacyhalothrin, carbosulfan, dimethoate after infestation of aphid repeatedly at weekly interval without follow ETL]

- 2. **Recommendation**:-First spray of Carbosulfan 25 EC 0.04% was made at initiation of pest and second spray was given after 15 days.
- 3. **Refinement:**-First spray of Spray of *Bearuveria bassiana* @ 5 g/lit of water was made at initiation of pest and subsequent spray at 15 days interval.

No. of Replication: 3 (Farmers)

Source of Technology: - State Agricultural University

Thematic area: IPM Observations:

- 1. Record aphid population (aphid index) from five randomly selected plants from each plot at 7 days after spray
- 2. Record yield.

3.3 FRONTLINE DEMONSTRATIONS

A. Details of FLDs to be organized –

	t. Details of LDs to be organized –								
Sr.	Name of	Name of	Thematic	Technology	Critical Inputs	Season	Area	No. of	Parameters
No.	Crop/	Variety	area	demonstrated		and	(ha.)	farmers	identified
	Enterprise	Enterprises				year		/Demo.	
1	Cotton	Bt. Cotton	IPM/INM	Insecticide,	Azadirechtin,	Kh-21	10	25	yield
				Bio pesticide	Profenophos.,MDP,SNPV,				
					Beauveriabassiana				
2	Chicory		ICM	Bio pesticide	Beauveriabassiana	Kh-21	2	5	Yield
				Bio fertilizer	Azotobacter, PSB				
3	Wheat	GW-463	Varietal	Variety	seed	Rabi-	4	10	Yield
						21			
4	Ajwain	Gujarat	IPM/IDM	Bio pesticide	Trichoderma,	Rabi-	4	10	Yield
		Ajwain-2		Bio fertilizer	Beauveriabassiana	21			
					Azotobacter, PSB				
5	Pearl	GHB-1231	Varietal	Variety	seed	Sum-	4	10	Yield
	Millet					21			
Oth	er Scheme								
5	NMOOP-	GJG-22/	Improved	Improved	Improved var. Seed (GJG-	KH-21	20	50	Yield, %
	Groundnut	GJG 9	Variety	Variety, Bio	22/GJG-9),				pod
			with ICM	pesticide, Bio	Metarhizium anisopliae,				damage
				fungicide, Bio	Trichoderma,				
				fertilizer	PSB, Rhizobium				

6	NMOOP-	GTil -3/5	Improved	Improved	Improved var. Seed (GTil-	Sum-21	10	25	Yield, %
	Sesame		Variety	Variety, Bio	3/5), Beauveria bassian,				pod
			with ICM	pesticide, Bio	Trichoderma, PSB,				damage
				fungicide, Bio	Azotobacter				
				fertilizer					
7	NFSM-	GG-5	Improved	Improved	Improved var. Seed(GG-5),	Rabi-21	20	50	Yield, %
	Chickpea		Variety	Variety, Bio	Beauveria bassiana,				pod
			with ICM	pesticide,	Trichoderma,				damage
				Bio fungicide,	PSB, Rhizobium				
				Bio fertilizer					
8	ATIC	GCH-9	Varietal	Variety	seed	Kh-21	8	20	Yield
	Castor								
9	ATIC	GC-4	ICM	Bio pesticide	Beauveriabassiana, PSB,	Rabi-	8	20	Yield
	Cumin			Bio fertilizer	Azotobector Trichoderma	21			
10	ATIC	GC-2	ICM	Bio pesticide	PSB, Azotobector,	Rabi-	8	20	Yield
	Coriander			Bio fertilizer	Beauveriabassiana,	21			
					Trichoderma				
					Total		98	245	

Sponsored Demonstration

Crop	Area (ha)	No. of farmers
-	-	-

B. Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
	Cotton			
1	Field days	1	September	20
2	Farmers Training	1	June	25
3	Media coverage	1	April	
4	Training for extension functionaries			
	Chikori			
1	Field days	1	January	20
2	Farmers Training	1	September	25
3	Media coverage	1	January	
4	Training for extension functionaries			
	Wheat			
1	Field days	1	January	20
2	Farmers Training	1	October	25
3	Media coverage	1	October	
4	Training for extension functionaries			
	Ajwain			
1	Field days	1	November	20
2	Farmers Training	1	September	25
3	Media coverage	1	November	
4	Training for extension functionaries			
	Groundnut			
1	Field days	2	Sep	50
2	Farmers Training	2	July, August	50
3	Media coverage	1	August	
4	Training for extension functionaries	1	June	30

	Sesamum			
1	Field days	2	April, May	50
2	Farmers Training	1	Feb	25
3	Media coverage	1	Feb	
4	Training for extension functionaries	1	Jan	30
	Chickpea			
1	Field days	2	January	50
2	Farmers Training	1	November	25
3	Media coverage	1	November	
4	Training for extension functionaries	1	October	30
	Castor			
1	Field days	1	February	20
2	Farmers Training	1	September	25
3	Media coverage	1	March	
4	Training for extension functionaries	1		
	Cumin			
1	Field days	1	December	20
2	Farmers Training	1	October	25
3	Media coverage	1	October	
4	Training for extension functionaries			
	Coriander			
1	Field days	1	November	20
2	Farmers Training	1	October	25
3	Media coverage	1	October	
4	Training for extension functionaries			
	Kitchen gardening			
1	Field days	2	July, Sep	40
2	Farmers Training	1	June	30
3	Media coverage	1	May	
4	Training for extension functionaries			

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 Picking Apron	Cotton	Kharif-21	5	2	Apron	Picking efficiency

b. Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds/ha. etc.	Critical inputs	Performance parameters / indicators
Animal	Local	3	3	Bypass Fat	1. % Fat increase in milk
Husbandry					2. Total Milk Production increase

c. FLD on Other enterprises

Enterprise	Name of the technology demonstrated	No. of farmers	No. of units	Critical inputs	Performance parameters / indicators
Solar Cooker	Solar Cooker	5	5	Solar Cooker	Time & fuel

Kitchen gardening	Nutritional gardening	50	2 ha	Vegetable seeds	Yield

3.4TRAINING (INCLUDING THE SPONSORED AND FLD TRAINING PROGRAMMES):

A. ON CAMPUS

The court Acces	N 6	No. of participant								
Thematic Area	No. of	Others SC/ST								
	Courses	Male	Female	Total	Male	Female	Total	Total		
(A) Farmers & Farm Women										
I Crop Production										
Weed Management				0			0	0		
Resource Conservation Technologies				0			0	0		
Cropping Systems				0			0	0		
Crop Diversification				0			0	0		
Integrated Farming				0			0	0		
Water management	1	25	0	25	0	0	0	25		
Seed production				0			0	0		
Nursery management				0			0	0		
Integrated Crop Management	1	24	0	24	1	0	1	25		
Fodder production				0			0	0		
Production of organic inputs	1	24	0	24	1	0	1	25		
Total	3	73	0	73	2	0	2	75		
II Horticulture				0			0	0		
a) Vegetable Crops				0			0	0		
Production of low volume and high value crops				0			0	0		
Off-season vegetables				0			0	0		
Nursery raising	1	0	20	20	0	5	5	25		
Exotic vegetables like Broccoli				0			0	0		
Export potential vegetables				0			0	0		
Grading and standardization				0			0	0		
Protective cultivation (Green Houses, Shade Net				0			0	0		
etc.)										
b) Fruits				0			0	0		
Training and Pruning				0			0	0		
Layout and Management of Orchards				0			0	0		
Cultivation of Fruit				0			0	0		
Management of young plants/orchards				0			0	0		
Rejuvenation of old orchards				0			0	0		
Export potential fruits				0			0	0		
Micro irrigation systems of orchards				0			0	0		
Plant propagation techniques				0			0	0		
c) Ornamental Plants				0			0	0		
Nursery Management				0			0			
Management of potted plants				0			0	0		
Export potential of ornamental plants				0			0	0		
Propagation techniques of Ornamental Plants				0			0			
d) Plantation crops				0			0	0		
Production and Management technology				0			0	0		
Processing and value addition	-			0			0	0		
e) Tuber crops				0			0	0		
Production and Management technology				0			0	0		
Processing and value addition				0			0	0		

f) Spices				0			0	0
Production and Management technology				0			0	0
Processing and value addition				0			0	0
g) Medicinal and Aromatic Plants				0			0	0
Nursery management				0			0	0
Production and management technology				0			0	0
Post harvest technology and value addition				0			0	0
Total	1	0	20	20	0	5	5	25
III Soil Health and Fertility Management	-	U	20	0	U	3	0	0
Soil fertility management				0			0	0
Soil and Water Conservation				0			0	0
	1	18	5	23	1	1	2	25
Integrated Nutrient Management		10		0		1	0	0
Production and use of organic inputs				0			0	0
Management of Problematic soils				0			0	0
Micro nutrient deficiency in crops				0			_	_
Nutrient Use Efficiency		 		_			0	0
Soil and Water Testing	4	10	-	0	1	4	0	0
Total	1	18	5	23	1	1	2	25
IV Livestock Production and Management				-			-	
Dairy Management				0			0	0
Poultry Management				0			0	0
Piggery Management				0			0	0
Rabbit Management/goat		<u> </u>		0			0	0
Disease Management			_	0		_	0	0
Feed management	1	25	0	25	0	0	0	25
Production of quality animal products				0			0	0
Total	1	25	0	25	0	0	0	25
V Home Science/Women empowerment				0			0	0
Household food security by kitchen gardening and	1	0	19	19	0	6	6	25
nutrition gardening								
Design and development of low/minimum cost diet				0			0	0
Designing and development for high nutrient				0			0	0
efficiency diet				U			U	0
Minimization of nutrient loss in processing				0			0	0
Gender mainstreaming through SHGs				0			0	0
Storage loss minimization techniques				0			0	0
Value addition	1	0	25	25	0	0	0	25
Income generation activities for empowerment of rural Women				0			0	0
Location specific drudgery reduction technologies				0			0	0
Rural Crafts				0			0	0
Women and child care				0			0	0
Total	2	0	44	44	0	6	6	50
VI Agril. Engineering	=			0	-	-	0	0
Installation and maintenance of micro irrigation	1	22	0	22	3	0	3	25
systems	_							
Use of Plastics in farming practices				0			0	0
Production of small tools and implements				0			0	0
Repair and maintenance of farm machinery and				0			0	0
implements								
Small scale processing and value addition		<u> </u>		0			0	0
Post Harvest Technology	1		1	0		I	0	0
Total	1	22	0	22	3	0	3	25

								0
VII Plant Protection	-		_	0	-	_	0	0
Integrated Pest Management	1	22	0	22	3	0	3	25
Integrated Disease Management	1	25	0	25	0	0	0	25
Bio-control of pests and diseases	1	25	0	25	0	0	0	25
Production of bio control agents and bio pesticides				0			0	0
Total	3	72	0	72	3	0	3	75
VIII Fisheries				0			0	0
Integrated fish farming				0			0	0
Carp breeding and hatchery management				0			0	0
Carp fry and fingerling rearing				0			0	0
Composite fish culture				0			0	0
Hatchery management and culture of freshwater				0			0	0
prawn								
Breeding and culture of ornamental fishes				0			0	0
Portable plastic carp hatchery				0			0	0
Pen culture of fish and prawn				0			0	0
Shrimp farming				0			0	0
Edible oyster farming				0			0	0
Pearl culture				0			0	0
Fish processing and value addition				0			0	0
Total	0	0	0	0	0	0	0	0
IX Production of Inputs at site				0			0	0
Seed Production				0			0	0
Planting material production				0			0	0
Bio-agents production				0			0	0
Bio-pesticides production				0			0	0
Bio-fertilizer production				0			0	0
Vermi-compost production	1	23	0	23	2	0	2	25
Organic manures production				0			0	0
Production of fry and fingerlings				0			0	0
Production of Bee-colonies and wax sheets				0			0	0
Small tools and implements				0			0	0
Production of livestock feed and fodder				0			0	0
Production of Fish feed				0			0	0
Total	1	23	0	23	2	0	2	25
X Capacity Building and Group Dynamics				0			0	0
Leadership development				0			0	0
Group dynamics				0			0	0
Formation and Management of SHGs				0			0	0
Mobilization of social capital				0			0	0
Entrepreneurial development of farmers/youths				0			0	0
WTO and IPR issues				0			0	0
Total	0	0	0	0	0	0	0	0
XI Agro-forestry				0			0	0
Production technologies				0			0	0
Nursery management				0			0	0
Integrated Farming Systems				0			0	0
Total	0	0	0	0	0	0	0	0
XII Others (Pl. Specify)				0			0	0
TOTAL	13	233	69	302	11	12	23	325
(B) RURAL YOUTH				0			0	0
Mushroom Production				0			0	0
Bee-keeping				0			0	0
Integrated farming	1	16	0	16	9	0	9	25

				0			0	0
Seed production	-			0			0	0
Production of organic inputs	-			0			0	0
Integrated Farming (Medicinal)				0			0	0
Planting material production				0			0	0
Vermi-culture				0			0	0
Sericulture				0			0	0
Protected cultivation of vegetable crops				0			0	0
Commercial fruit production				0			0	0
Repair and maintenance of farm machinery and				0			0	0
implements								
Nursery Management of Horticulture crops				0			0	0
Training and pruning of orchards				0			0	0
Value addition				0			0	0
Production of quality animal products				0			0	0
Dairying				0			0	0
Sheep and goat rearing				0			0	0
Quail farming				0			0	0
Piggery				0			0	0
Rabbit farming				0			0	0
Poultry production				0			0	0
Ornamental fisheries				0			0	0
Para vets				0			0	0
Para extension workers				0			0	0
Composite fish culture				0			0	0
Freshwater prawn culture				0			0	0
Shrimp farming				0			0	0
Pearl culture				0			0	0
Cold water fisheries				0			0	0
Fish harvest and processing technology				0			0	0
Fry and fingerling rearing				0			0	0
Small scale processing				0			0	0
Post Harvest Technology				0			0	0
Tailoring and Stitching				0			0	0
Rural Crafts				0			0	0
TOTAL	1	16	0	16	9	0	9	25
(C) Extension Personnel				0			0	0
Productivity enhancement in field crops	1	20	0	20	5	0	5	25
Integrated Pest Management	1	20	0	20	5	0	5	25
Integrated Nutrient management				0			0	0
Rejuvenation of old orchards				0			0	0
Protected cultivation technology				0			0	0
Formation and Management of SHGs				0			0	0
Group Dynamics and farmers organization				0			0	0
Information networking among farmers				0			0	0
Capacity building for ICT application				0			0	0
Care and maintenance of farm machinery and				0			0	0
implements								
WTO and IPR issues				0			0	0
Management in farm animals				0			0	0
Livestock feed and fodder production	1			0			0	0
Household food security				0			0	0
Women and Child care				0			0	0
Low cost and nutrient efficient diet designing				0			0	0
				0			0	0
Production and use of organic inputs	<u> </u>	<u> </u>		U			U	U

Gender mainstreaming through SHGs				0			0	0
Any other (Pl. Specify)				0			0	0
TOTAL	2	40	0	40	10	0	10	50
G. Total	16	289	69	358	30	12	42	400

B. OFF Campus	N	No. of participant							
Thematic Area	No. of		Others		,	SC/ST		Grand	
	Courses	Male	Female	Total	Male	Female	Total	Total	
(A) Farmers & Farm Women									
I Crop Production									
Weed Management	2	41	9	50	3	2	5	55	
Resource Conservation Technologies				0			0	0	
Cropping Systems				0			0	0	
Crop Diversification				0			0	0	
Integrated Farming				0			0	0	
Water management				0			0	0	
Seed production	1	21	2	23	2	0	2	25	
Nursery management				0			0	0	
Integrated Crop Management				0			0	0	
Fodder production				0			0	0	
Production of organic inputs				0			0	0	
Total	3	62	11	73	5	2	7	80	
II Horticulture				0			0	0	
a) Vegetable Crops				0			0	0	
Production of low volume and high value crops				0			0	0	
Off-season vegetables				0			0	0	
Nursery raising				0			0	0	
Exotic vegetables like Broccoli				0			0	0	
Export potential vegetables				0			0	0	
Grading and standardization				0			0	0	
Protective cultivation (Green Houses, Shade Net				0			0	0	
etc.)									
b) Fruits				0			0	0	
Training and Pruning				0			0	0	
Layout and Management of Orchards				0			0	0	
Cultivation of Fruit				0			0	0	
Management of young plants/orchards				0			0	0	
Rejuvenation of old orchards				0			0	0	
Export potential fruits				0			0	0	
Micro irrigation systems of orchards				0			0	0	
Plant propagation techniques				0			0	0	
c) Ornamental Plants				0			0	0	
Nursery Management				0			0	0	
Management of potted plants				0			0	0	
Export potential of ornamental plants				0			0	0	
Propagation techniques of Ornamental Plants				0	 		0	0	
d) Plantation crops				0			0	0	
Production and Management technology				0	 		0	0	
Processing and value addition				0			0	0	
e) Tuber crops				0			0		
Production and Management technology				0	 		0	0	
Processing and value addition				0			0	0	

f) Spices				0			0	0
Production and Management technology				0			0	0
Processing and value addition				0			0	0
g) Medicinal and Aromatic Plants				0			0	0
Nursery management				0			0	0
Production and management technology				0			0	0
Post harvest technology and value addition				0			0	0
Total	0	0	0	0	0	0	0	0
III Soil Health and Fertility Management	U	U	0	0	U	0	0	0
Soil fertility management				0			0	0
Soil and Water Conservation				0			0	0
	2	41	13	54	1	0	1	55
Integrated Nutrient Management	1	28	0	28	2	0	2	30
Production and use of organic inputs	1	20	U	0		U	0	0
Management of Problematic soils				0			0	0
Micro nutrient deficiency in crops				0			0	0
Nutrient Use Efficiency								_
Soil and Water Testing	2	CO	13	0	2	0	0	0
Total	3	69	13	82	3	0	3	85
IV Livestock Production and Management								-
Dairy Management				0			0	0
Poultry Management				0			0	0
Piggery Management				0			0	0
Rabbit Management/goat				0			0	0
Disease Management	ļ			0			0	0
Feed management	1	0	25	25	0	0	0	25
Production of quality animal products				0			0	0
Total	1	0	25	25	0	0	0	25
V Home Science/Women empowerment				0			0	0
Household food security by kitchen gardening and	1	0	19	19	0	6	6	25
nutrition gardening				-				
Design and development of low/minimum cost				0			0	0
diet Designing and development for high nutrient	1	0	25	25	0	0	0	25
efficiency diet	1	U	23	23	U	U	U	23
Minimization of nutrient loss in processing	1	0	25	25	0	0	0	25
Gender mainstreaming through SHGs				0			0	0
Storage loss minimization techniques				0			0	0
Value addition	1	0	25	25	0	0	0	25
Income generation activities for empowerment of rural Women	1	0	25	25	0	0	0	25
Location specific drudgery reduction technologies				0			0	0
Rural Crafts				0			0	0
Women and child care				0			0	0
Total	5	0	119	119	0	6	6	125
VI Agril. Engineering				0			0	0
Installation and maintenance of micro irrigation				0			0	0
systems				ŭ				Ů
Use of Plastics in farming practices				0			0	0
Production of small tools and implements				0			0	0
Repair and maintenance of farm machinery and				0			0	0
implements								
Small scale processing and value addition				0			0	0
Post Harvest Technology				0			0	0
Total	0	0	0	0	0	0	0	0

VIII Disease Property of				0			0	
VII Plant Protection	2	45	-	0	-	-	0	0
Integrated Pest Management	2	45	0	45	5	0	5	50
Integrated Disease Management	1	25	0	25	0	0	0	25
Bio-control of pests and diseases	1	20	0	20	5	0	5	25
Production of bio control agents and bio	1	25	0	25	0	0	0	25
pesticides Total	5	115	0	115	10	0	10	125
VIII Fisheries	3	113	U	0	10	0	0	0
Integrated fish farming				0			0	0
				0			0	0
Carp breeding and hatchery management Carp fry and fingerling rearing				0			0	0
Composite fish culture				0			0	0
				0			0	0
Hatchery management and culture of freshwater prawn				U			U	
Breeding and culture of ornamental fishes				0			0	0
Portable plastic carp hatchery				0			0	0
Pen culture of fish and prawn				0			0	0
Shrimp farming				0			0	0
Edible oyster farming				0			0	0
Pearl culture				0			0	0
Fish processing and value addition				0			0	0
Total	0	0	0	0	0	0	0	0
IX Production of Inputs at site	U	0	U	0	U	0	0	0
Seed Production	1	22	0	22	3	0	3	25
	1	22	0	0	3	0	0	0
Planting material production				0			0	0
Bio-agents production	1	25	0	25	0	0	0	25
Bio-pesticides production	1	25	0	0	0	U	0	0
Bio-fertilizer production				0			0	0
Vermi-compost production				0				0
Organic manures production							0	0
Production of fry and fingerlings				0			0	0
Production of Bee-colonies and wax sheets				0				0
Small tools and implements Production of livestock feed and fodder							0	_
				0			0	0
Production of Fish feed	2	47	0		3	0		50
Total	2	47	0	47	3	0	3	0
X Capacity Building and Group Dynamics				0			0	0
Leadership development								0
Group dynamics				0			0	
Formation and Management of SHGs				0			0	0
Mobilization of social capital							_	_
Entrepreneurial development of farmers/youths				0			0	0
WTO and IPR issues	0	0	0	0	^	0	0	0
Total	0	0	0	0	0	U	0	_
XI Agro-forestry				0			0	0
Production technologies			1	0			0	0
Nursery management	-		-	0			0	0
Integrated Farming Systems		_	_	0	^	0	0	0
Total	0	0	0	0	0	0	0	0
XII Others (Pl. Specify)	46	202	460	0	24	0	0	0
TOTAL	19	293	168	461	21	8	29	490
(B) RURAL YOUTH				0			0	0
Mushroom Production				0			0	0
Bee-keeping		<u> </u>	<u> </u>	0		<u> </u>	0	0

Integrated farming				0			0	0
Seed production				0			0	0
Production of organic inputs				0			0	0
Integrated Farming (Medicinal)				0			0	0
Planting material production				0			0	0
Vermi-culture				0			0	0
Sericulture				0			0	0
Protected cultivation of vegetable crops				0			0	0
Commercial fruit production				0			0	0
Repair and maintenance of farm machinery and				0			0	0
implements				Ŭ			Ŭ	Ŭ
Nursery Management of Horticulture crops				0			0	0
Training and pruning of orchards				0			0	0
Value addition				0			0	0
Production of quality animal products				0			0	0
Dairying Dairy annual products				0			0	0
Sheep and goat rearing				0			0	0
Quail farming				0			0	0
Piggery				0			0	0
Rabbit farming				0			0	0
Poultry production				0			0	0
Ornamental fisheries				0			0	0
Para vets				0			0	0
Para extension workers				0			0	0
				0			0	0
Composite fish culture				0			0	0
Freshwater prawn culture				0				0
Shrimp farming Pearl culture				0			0	0
				0			0	0
Cold water fisheries								
Fish harvest and processing technology				0			0	0
Fry and fingerling rearing				0			0	
Small scale processing				0			0	0
Post Harvest Technology				0			0	0
Tailoring and Stitching	1	1.0	0	_		0	0	0
Rural Crafts	1	16	0	16	9	0	9	25
TOTAL	1	16	0	16	9	0	9	25
(C) Extension Personnel				0			0	0
Productivity enhancement in field crops				0			0	0
Integrated Pest Management				0			0	0
Integrated Nutrient management				0			0	0
Rejuvenation of old orchards				0	<u> </u>		0	0
Protected cultivation technology	1	20	0	20	5	0	5	25
Formation and Management of SHGs				0			0	0
Group Dynamics and farmers organization				0			0	0
Information networking among farmers				0			0	0
Capacity building for ICT application				0			0	0
Care and maintenance of farm machinery and implements				0			0	0
WTO and IPR issues				0			0	0
Management in farm animals				0			0	0
Livestock feed and fodder production				0			0	0
Household food security	1	0	20	20	0	5	5	25
Women and Child care				0			0	0
Low cost and nutrient efficient diet designing				0			0	0
Production and use of organic inputs				0	<u> </u>		0	0

Gender mainstreaming through SHGs				0			0	0
Any other (Pl. Specify)				0			0	0
TOTAL	2	20	20	40	5	5	10	50
G. Total	22	329	188	517	35	13	48	565

C. Consolidated table (ON and OFF Campus)

C. Consolidated table (ON and OFF Campus)	No. of participant									
Thematic Area	No. of		Others SC/ST					Grand		
	Courses	Male	Female	Total	Male		Total	Total		
(A) Farmers & Farm Women		iviaic	Terriale	Total	Iviaic	remaie	Total	Total		
I Crop Production										
Weed Management	2	41	9	50	3	2	5	55		
Resource Conservation Technologies	0	0	0	0	0	0	0	0		
Cropping Systems	0	0	0	0	0	0	0	0		
Crop Diversification	0	0	0	0	0	0	0	0		
Integrated Farming	0	0	0	0	0	0	0	0		
Water management	1	25	0	25	0	0	0	25		
Seed production	1	21	2	23	2	0	2	25		
Nursery management	0	0	0	0	0	0	0	0		
Integrated Crop Management	1	24	0	24	1	0	1	25		
Fodder production	0	0	0	0	0	0	0	0		
Production of organic inputs	1	24	0	24	1	0	1	25		
Total	6	135	11	146	7	2	9	155		
II Horticulture				0			0	0		
a) Vegetable Crops				0			0	0		
Production of low volume and high value crops	0	0	0	0	0	0	0	0		
Off-season vegetables	0	0	0	0	0	0	0	0		
Nursery raising	1	0	20	20	0	5	5	25		
Exotic vegetables like Broccoli	0	0	0	0	0	0	0	0		
Export potential vegetables	0	0	0	0	0	0	0	0		
Grading and standardization	0	0	0	0	0	0	0	0		
Protective cultivation (Green Houses, Shade Net etc.)	0	0	0	0	0	0	0	0		
b) Fruits	0	0	0	0	0	0	0	0		
Training and Pruning	0	0	0	0	0	0	0	0		
Layout and Management of Orchards	0	0	0	0	0	0	0	0		
Cultivation of Fruit	0	0	0	0	0	0	0	0		
Management of young plants/orchards	0	0	0	0	0	0	0	0		
Rejuvenation of old orchards	0	0	0	0	0	0	0	0		
Export potential fruits	0	0	0	0	0	0	0	0		
Micro irrigation systems of orchards	0	0	0	0	0	0	0	0		
Plant propagation techniques	0	0	0	0	0	0	0	0		
c) Ornamental Plants	0	0	0	0	0	0	0	0		
Nursery Management	0	0	0	0	0	0	0	0		
Management of potted plants	0	0	0	0	0	0	0	0		
Export potential of ornamental plants Propagation techniques of Ornamental Plants	0	0	0	0	0	0	0	0		
d) Plantation crops	0	0	0	0	0	0	0	0		
Production and Management technology	0	0	0	0	0	0	0	0		
Processing and value addition	0	0	0	0	0	0	0	0		
e) Tuber crops	0	0	0	0	0	0	0	0		
Production and Management technology	0	0	0	0	0	0	0	0		
Processing and value addition	0	0	0	0	0	0	0	0		
f) Spices	0	0	0	0	0	0	0	0		
1) Spices		U	U	U		U	U	U		

Draduction and Management technology	0	0	0	0	0	0	0	0
Production and Management technology	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0
g) Medicinal and Aromatic Plants	0	0	0	0	0	0	0	0
Nursery management			0	0	0			0
Production and management technology	0	0	_	_	_	0	0	0
Post harvest technology and value addition	0	0	0	0	0	0	0	•
Total	1	0	20	20	0	5	5	25
III Soil Health and Fertility Management		0	0	0	0	0	0	0
Soil fertility management	0	0	0	0	0	0	0	0
Soil and Water Conservation	0	0	0	0	0	0	0	0
Integrated Nutrient Management	3	59	18	77	2	1	3	80
Production and use of organic inputs	1	28	0	28	2	0	2	30
Management of Problematic soils	0	0	0	0	0	0	0	0
Micro nutrient deficiency in crops	0	0	0	0	0	0	0	0
Nutrient Use Efficiency	0	0	0	0	0	0	0	0
Soil and Water Testing	0	0	0	0	0	0	0	0
Total	4	87	18	105	4	1	5	110
IV Livestock Production and Management		_	_	0	_	_	0	0
Dairy Management	0	0	0	0	0	0	0	0
Poultry Management	0	0	0	0	0	0	0	0
Piggery Management	0	0	0	0	0	0	0	0
Rabbit Management/goat	0	0	0	0	0	0	0	0
Disease Management	0	0	0	0	0	0	0	0
Feed management	2	25	25	50	0	0	0	50
Production of quality animal products	0	0	0	0	0	0	0	0
Total	2	25	25	50	0	0	0	50
V Home Science/Women empowerment				0			0	0
Household food security by kitchen gardening and nutrition gardening	2	0	38	38	0	12	12	50
Design and development of low/minimum cost diet	0	0	0	0	0	0	0	0
	1	0	25	25	0	0	0	25
Designing and development for high nutrient efficiency diet	<u> </u>	U	25	25	O	O	U	25
Minimization of nutrient loss in processing	1	0	25	25	0	0	0	25
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0
Storage loss minimization techniques	0	0	0	0	0	0	0	0
Value addition	2	0	50	50	0	0	0	50
Income generation activities for empowerment of rural Women	1	0	25	25	0	0	0	25
Location specific drudgery reduction technologies	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0
Women and child care	0	0	0	0	0	0	0	0
Total	7	0	163	163	0	12	12	175
VI Agril. Engineering	,	U	103	0	U	12	0	0
Installation and maintenance of micro irrigation	1	22	0	22	3	0	3	25
systems		22	0	22	3	· ·	3	23
Use of Plastics in farming practices	0	0	0	0	0	0	0	0
Production of small tools and implements	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and	0	0	0	0	0	0	0	0
	l							
implements	0	0	0	0	0	0	0	0
implements Small scale processing and value addition	0	0	_	0	0	0	0	0
implements Small scale processing and value addition Post Harvest Technology	0		0	0	0	_		0
implements Small scale processing and value addition Post Harvest Technology Total		0	_	0 22	_	0	0	
implements Small scale processing and value addition Post Harvest Technology	0	0	0	0	0	0	0	0 25

		I	_			_	_	
Integrated Disease Management	2	50	0	50	0	0	0	50
Bio-control of pests and diseases	2	45	0	45	5	0	5	50
Production of bio control agents and bio pesticides	1	25	0	25	0	0	0	25
Total	8	187	0	187	13	0	13	200
VIII Fisheries				0			0	0
Integrated fish farming	0	0	0	0	0	0	0	0
Carp breeding and hatchery management	0	0	0	0	0	0	0	0
Carp fry and fingerling rearing	0	0	0	0	0	0	0	0
Composite fish culture	0	0	0	0	0	0	0	0
Hatchery management and culture of freshwater prawn	0	0	0	0	0	0	0	0
Breeding and culture of ornamental fishes	0	0	0	0	0	0	0	0
Portable plastic carp hatchery	0	0	0	0	0	0	0	0
Pen culture of fish and prawn	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0
Edible oyster farming	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0
Fish processing and value addition	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0
IX Production of Inputs at site		-	-	0		-	0	0
Seed Production	1	22	0	22	3	0	3	25
Planting material production	0	0	0	0	0	0	0	0
Bio-agents production	0	0	0	0	0	0	0	0
Bio-pesticides production	1	25	0	25	0	0	0	25
Bio-fertilizer production	0	0	0	0	0	0	0	0
Vermi-compost production	1	23	0	23	2	0	2	25
Organic manures production	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0
Production of fry and fingerlings Production of Bee-colonies and wax sheets	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0
Small tools and implements			0	_		0		
Production of livestock feed and fodder	0	0	_	0	0	_	0	0
Production of Fish feed	0	0	0	0	0	0	0	0
Total	3	70	0	70	5	0	5	75
X Capacity Building and Group Dynamics			•	0	_	•	0	0
Leadership development	0	0	0	0	0	0	0	0
Group dynamics	0	0	0	0	0	0	0	0
Formation and Management of SHGs	0	0	0	0	0	0	0	0
Mobilization of social capital	0	0	0	0	0	0	0	0
Entrepreneurial development of farmers/youths	0	0	0	0	0	0	0	0
WTO and IPR issues	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0
XI Agro-forestry				0			0	0
Production technologies	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0
Integrated Farming Systems	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0
XII Others (Pl. Specify)				0			0	0
TOTAL	32	526	237	763	32	20	52	815
(B) RURAL YOUTH				0			0	0
Mushroom Production	0	0	0	0	0	0	0	0
Bee-keeping	0	0	0	0	0	0	0	0
Integrated farming	1	16	0	16	9	0	9	25
Seed production	0	0	0	0	0	0	0	0
Production of organic inputs	0	0	0	0	0	0	0	0

Integrated Farming (Medicinal)	0	0	0	0	0	0	0	0
Integrated Farming (Medicinal)	0	0	0	0	0	0	0	0
Planting material production	0	0	0	0	0	0	0	0
Vermi-culture	0	0	0	0	0	0	0	0
Sericulture	_			0	0			0
Protected cultivation of vegetable crops	0	0	0	0	0	0	0	0
Commercial fruit production	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	U	U	0	U	U	U	U	U
Nursery Management of Horticulture crops	0	0	0	0	0	0	0	0
Training and pruning of orchards	0	0	0	0	0	0	0	0
Value addition	0	0	0	0	0	0	0	0
Production of quality animal products	0	0	0	0	0	0	0	0
Dairying	0	0	0	0	0	0	0	0
Sheep and goat rearing	0	0	0	0	0	0	0	0
Quail farming	0	0	0	0	0	0	0	0
Piggery	0	0	0	0	0	0	0	0
Rabbit farming	0	0	0	0	0	0	0	0
Poultry production	0	0	0	0	0	0	0	0
Ornamental fisheries	0	0	0	0	0	0	0	0
Para vets	0	0	0	0	0	0	0	0
Para extension workers	0	0	0	0	0	0	0	0
Composite fish culture	0	0	0	0	0	0	0	0
Freshwater prawn culture	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0
Cold water fisheries	0	0	0	0	0	0	0	0
Fish harvest and processing technology	0	0	0	0	0	0	0	0
Fry and fingerling rearing	0	0	0	0	0	0	0	0
Small scale processing	0	0	0	0	0	0	0	0
Post Harvest Technology	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0
Tailoring and Stitching Rural Crafts	1	16	0	16	9	0	9	25
TOTAL	2	32	0	32	18	0	18	50
(C) Extension Personnel	2	32	U	0	10	U	0	0
Productivity enhancement in field crops	1	20	0	20	5	0	5	25
·	1	20	0	20	5	0	5	25
Integrated Pest Management	0	0	0	0	0	0	0	0
Integrated Nutrient management			_			_		
Rejuvenation of old orchards	0	0	0	0	0	0	0	0
Protected cultivation technology	1	20	0	20	5	0	5	25
Formation and Management of SHGs	0	0	0	0	0	0	0	0
Group Dynamics and farmers organization	0	0	0	0	0	0	0	0
Information networking among farmers	0	0	0	0	0	0	0	0
Capacity building for ICT application	0	0	0	0	0	0	0	0
Care and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0
WTO and IPR issues	0	0	0	0	0	0	0	0
Management in farm animals	0	0	0	0	0	0	0	0
Livestock feed and fodder production	0	0	0	0	0	0	0	0
Household food security	1	0	20	20	0	5	5	25
Women and Child care	0	0	0	0	0	0	0	0
Low cost and nutrient efficient diet designing	0	0	0	0	0	0	0	0
Production and use of organic inputs	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0
Any other (Pl. Specify)	0	0	0	0	0	0	0	0
, color (i ii opeoliy)							_	

TOTAL	4	60	20	80	15	5	20	100
G. Total	38	618	257	875	65	25	90	965

Summary of Training Programme ON Campus

·	No. of			No. o	of parti	cipant	No. of participant				
(A) Farmers & Farm Women	couses	others				SC/ST		Grand			
		Male	Female	Total	Male	Female	Total	Total			
I Crop Production	3	73	0	73	2	0	2	75			
II Horticulture	1	0	20	20	0	5	5	25			
III Soil Health and Fertility Management	1	18	5	23	1	1	2	25			
IV Livestock Production and Management	1	25	0	25	0	0	0	25			
V Home Science/Women empowerment	2	0	44	44	0	6	6	50			
VI Agril. Engineering	1	22	0	22	3	0	3	25			
VII Plant Protection	3	72	0	72	3	0	3	75			
VIII Fisheries	0	0	0	0	0	0	0	0			
IX Production of Inputs at site	1	23	0	23	2	0	2	25			
X Capacity Building and Group Dynamics	0	0	0	0	0	0	0	0			
XI Agro-forestry	0	0	0	0	0	0	0	0			
XII Others (Pl. Specify)	0	0	0	0	0	0	0	0			
Total (A)	13	233	69	302	11	12	23	325			
(B) RURAL YOUTH	1	16	0	16	9	0	9	25			
(C) Extension Personnel	2	40	0	40	10	0	10	50			
Grand Total (A+B+C)	16	289	69	358	30	12	42	400			

Off Campus

	No. of			No. o	of parti	cipant		
(A) Farmers & Farm Women	couses		others			SC/ST		Grand
		Male	Female	Total	Male	Female	Total	Total
l Crop Production	3	62	11	73	5	2	7	80
II Horticulture	0	0	0	0	0	0	0	0
III Soil Health and Fertility Management	3	69	13	82	3	0	3	85
IV Livestock Production and Management	1	0	25	25	0	0	0	25
V Home Science/Women empowerment	5	0	119	119	0	6	6	125
VI Agril. Engineering	0	0	0	0	0	0	0	0
VII Plant Protection	5	115	0	115	10	0	10	125
VIII Fisheries	0	0	0	0	0	0	0	0
IX Production of Inputs at site	2	47	0	47	3	0	3	50
X Capacity Building and Group Dynamics	0	0	0	0	0	0	0	0
XI Agro-forestry	0	0	0	0	0	0	0	0
XII Others (Pl. Specify)	0	0	0	0	0	0	0	0
Total (A)	19	293	168	461	21	8	29	490
(B) RURAL YOUTH	1	16	0	16	9	0	9	25

(C) Extension Personnel	2	20 329	20 188	40 517	3 5	12	10 48	50 565
Grand Total (A+B+C)	22	329	199	21/	22	13	48	202

Consolidated (On + Off Campus)

	No. of			No. o	of parti	cipant		
(A) Farmers & Farm Women	couses		others			SC/ST		Grand
		Male	Female	Total	Male	Female	Total	Total
l Crop Production	6	135	11	146	7	2	9	155
II Horticulture	1	0	20	20	0	5	5	25
III Soil Health and Fertility Management	4	87	18	105	4	1	5	110
IV Livestock Production and Management	2	25	25	50	0	0	0	50
V Home Science/Women empowerment	7	0	163	163	0	12	12	175
VI Agril. Engineering	1	22	0	22	3	0	3	25
VII Plant Protection	8	187	0	187	13	0	13	200
VIII Fisheries	0	0	0	0	0	0	0	0
IX Production of Inputs at site	3	70	0	70	5	0	5	75
X Capacity Building and Group Dynamics	0	0	0	0	0	0	0	0
XI Agro-forestry	0	0	0	0	0	0	0	0
XII Others (Pl. Specify)	0	0	0	0	0	0	0	0
Total (A)	32	526	237	763	32	20	52	815
(B) RURAL YOUTH	2	32	0	32	18	0	18	50
(C) Extension Personnel	4	60	20	80	15	5	20	100
Grand Total (A+B+C)	38	618	257	875	65	25	90	965

Details of training programmes attached in Annexure -I

3.4 Extension Activities (including activities of FLD programmes)

Nature of Extension	No. of		Farmers		Exte	nsion Off	icials		Total	
Activity	activities	Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	8	180	25	205	25	5	30	205	30	235
Kisan Mela	1	300	50	350	40	10	50	340	60	400
Kisan Ghosthi	5	170	20	190	20	14	34	190	34	224
Exhibition	2	150	230	380	40	10	50	190	240	430
Film Show	20	900	400	1300	120	40	160	1020	440	1460
Farmers Seminar	2	100	20	120	40	5	45	140	25	165
Workshop	1	200	100	300	25	10	35	225	110	335
Group meetings	6	60	15	75	25	15	40	85	30	115
Lectures delivered as	25	3500	700	4200	1200	450	1650	4700	1150	5850
resource persons	23	3300	700	4200	1200	430	1030	4700	1130	3630
Newspaper coverage	5	0	0	0	0	0	0	0	0	0
Radio talks	1	0	0	0	0	0	0	0	0	0
TV talks	1	0	0	0	0	0	0	0	0	0
Popular articles	3	0	0	0	0	0	0	0	0	0
Extension Literature	14	1200	100	1300	600	50	650	1800	150	1950
Advisory Services	10	100	10	110	50	10	60	150	20	170
Scientific visit to farmers	20	120	10	130	30	2	32	150	12	162
field	20	120	10	130	30		32	130	12	102
Farmers visit to KVK	25	550	250	800	200	120	320	750	370	1120
Diagnostic visits	5	30	5	35	5	2	7	35	7	42

Exposure visits	1	30	0	30	10	0	10	40	0	40
Ex-trainees Sammelan	1	20	5	25	4	1	5	24	6	30
Soil health Camp	1	100	20	120	30	20	50	130	40	170
Animal Health Camp	1	50	10	60	20	5	25	70	15	85
Agri mobile clinic	1	3000	100	3100	350	50	400	3350	150	3500
Soil test campaigns	1	60	0	60	12	0	12	72	0	72
Farm Science Club	1	50	0	50	4	0	4	54	0	54
Conveners meet	1	50	U	50	4	U	4	54	U	54
Self Help Group	1	12	5	17	3	2	5	15	7	22
Conveners meetings	1	12	5	17	3	2) 5	15	/	22
MahilaMandals	4	8	30	38	4	25	29	12	55	67
Conveners meetings	4	0	30	36	4	25	29	12	55	67
Celebration of important	3	400	150	550	60	80	140	460	230	690
days (specify)	3	400	130	330	60	80	140	460	230	090
KrishiMohostva	5	0	20	20	0	20	20	0	40	40
Pre Kharif Kisan Mela	3	80	0	80	30	0	30	110	0	110
Pre Rabi Kisan Mela	4	100	20	120	15	3	18	115	23	138
Any Other (Specify)	11	300	45	345	125	20	145	425	65	490
Total	192	11770	2340	14110	3087	969	4056	14857	3309	18166

3.6 Target for Production and supply of Technological products SEED MATERIALS

SI. No.	Crop	Variety	Quantity (qtl.)
CEREALS	Wheat	GW-463	75
OILSEEDS	Groundnut	GJG-9	55
	Groundnut	GJG-31	40
	Sesame	G.Til3	6
PULSES	Green gram	GM-4	7.5
VEGETABLES			
OTHERS (Specify)			
		Total	138.5

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
FRUITS	Jamun, Guava, custard apple		100
SPICES			
VEGETABLES	Brinjal, Tomato, Chili	GJLB-3,4	1500
FOREST SPECIES			100
ORNAMENTAL CROPS			
		Total	1700

Bio-products

Sl. No.	Product Name	Species	Qu	antity
			No	(kg)
BIO PESTICIDES				
1	Beauveria			5000
2	Trichoderma			10000
3	PSB		200	
4	Azaobactor		200	
5	Rhizobium		200	
6	Pheromone trap			
7	NPV			

	Total	600	150000

LIVESTOCK

SI. No.	Туре	Breed	Breed Quantity	ntity
			(Nos)	Unit
Cattle				
GOAT				
SHEEP				
POULTRY				
Pig farming				
FISHERIES				

4 Literature to be Developed/Published

A. KVK News Letter

Date of start : 01/01/2016

Number of copies to be published : e-publication

B. Literature developed/published

S.No.	Topic	Number
1	Research paper each scientist	2
2	Technical reports	8
3	News letters	4
4	Training manual all discipline	4
5	Popular article	3
6	Extension literature	7
7	E-publication	3
8	Any other (Please specify)	0
	Total	31

C. Details of Electronic Media to be Produced

	Type of media (CD / VCD / DVD / Audio-Cassette)	Title of the programme	Number
1			

D. Success stories/Case studies identified for development as a case. -

S. No.	Title of success story / case study identified	Proposed developed	for	case/story	to	be	prepared/
	a. Brief introduction b. Interventions c. Output d. Outcomes e. Impacti) Social economic, ii) Bio-Physical f. Good Action Photographs	2					

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

- a) Focused group discussion with the farmers
- b) Field visits
- c) Identifying general trends in the area

Rural Youth

- a) Filling up research based questionnaires
- b) Identification of leaderand role of rural youth in agriculture (Sociometric method)
- c) Engagement of rural youth in agriculture

In-service personnel

- a) Knowledgetest (Interview schedule)
- b) Interaction with the personnel
- c) b) Functional areas of personnel

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 farmers level
- iii) Existing cropping system :- Coriander
- iv) Others if any

5.3 Field activities

- i. Name of villages identified/adopted with block name (from which year) :-
- ii. No. of farm families selected per village:
- iii. No. of survey/PRA conducted:
- iv. No. of technologies taken to the adopted villages
- v. Name of the technologies found suitable by the farmers of the adopted villages:
- vi. Impact (production, income, employment, area/technological- horizontal/vertical)
- vii. Constraints if any in the continued application of these improved technologies

5.4 Activities of Soil and Water Testing Laboratory

Status of establishment of Lab:

- 1. Year of establishment :2005-06
- 2. List of equipments purchase with amount

SI. No	Name of the Equipment	Qty.	Cost	Remarks
1	Spectrophotometer	1	89160	Not working
2	Flame photometer	1		Not working
3	Physicalbalance	1	10640	Not working
4	Chemicalbalance	1	100000	Not working
5	Water distillation still	1	96118	Not working
6	Kieldahi digestion and distillation	1	49644	Not working
7	Shaker	1	80080	Working
8	Grinder	1	16773	Working
9	Refrigerator	1	16772	Working
10	Oven	1	20550	Working
11	Hot plate	1	30550	Working
Total		11	472964	

Targets of samples for analysis:

Details	No. of Samples	No. of Farmers	No. of Villages	Amount to be realized
Soil Samples	300	300	15	
Water	50	50	12	

Plant				
Total	350	350	27	

6. LINKAGE

6.1 Functional linkage with different organizations

Sr.	Name of organization		Nature of linkage
A	Statecorporation and state deptt.		
1	DistrictAgriculturalOfficer, Deptt. of Agriculture, District Panchayat, Jamnagar	>	Joint diagnostic teamvisit at
2	DistrictRuralDevelopment Agency, Jamnagar		farmersfield
3	DeputyDirector of Veterinary, Department of veterinary &Animal Husbandry,	>	Organizing collaborative
	Jamnagar		trainingto farmers
4	DeputyDirector of Horticulture, Jamnagar	\triangleright	For collaborative off campus
5	DeputyDirector of Agriculture (Training), Farmer Training Centre, Jamnagar		training
6	DeputyDirector of Agriculture (Extension), Jamnagar		For collaborative training and
7	Asstt. Director of Fisheries, Jamnagar		demonstrationProgramme
8	RangeForest Officer, Jamnagar		Collaborative on
9	Asstt. Director of GLDC, Jamnagar		campustrainingprogramme
10	Estate Engineer, Department of Irrigation, Jamnagar		For providing hostelfacilitiesto participants and organizing
11	All TalukaDevelopmentOfficers, and their team at Talukalevel		collaborative MahilaKrishiMela
12	Rajkot-Jamnagar Gramin Bank, Jamnagar		Collaborative Iviailliakrisilliviela
13	Project Director, ATMA, Jamnagar		
14	Project Director, DWDU, Jamnagar		
В	Private Corporation		
1	Territory Manager, GSFC, Jamnagar		Imparttraining on Agril. aspects
2	Territory Manager, GNFC, Jamnagar		Collaborative on/off
3	Territory Manager, IFFCO, Jamnagar		campustrainingprogramme
4	Reliance Industries, Dept. of Green Belt, Jamnagar		Sponsortrainingprogramme
С	NGOs		
1	Murlidhar Trust, Opp. Trajitpara Branch School, Bhanvad	\triangleright	Imparttraining on Agril. aspects
2	V.D.R.F. Trust, Momai Xerox, B.P. Road, Bhanvad		Collaborative on/off
3	Late J.V. Nariya Educational and Charitable Trust, 49, Modern Market, First		campustrainingprogramme
	Floor, Nr. Amber Cinema		
4	Jay AshapuraCharitable Society, MadhavNivas, Karmachari Society,		
	Trikonban, Dhrol (DistJamnagar)	_	
5	Shekhpat Jalstrav Vikas Mandal, AtShekhpat, Post-Aliyabada, Ta.&Dist Jamnagar		
6	LakhtarJalstravGramVikas Trust, 55, Shiv Complex, At Bhadra (Patiya), Ta	1	
	Jodia, Dist Jamnagar		
7	Umiya Mataji Mandir Trust, At Sidsar, TaJamjodhpur, DistJamnagar		
8	Shardapith Education Trust, 104-Shrusti complex, Nr. Gurudwara, Jamnagar		
9	ChacharaEducation & Charitable Trust, 104- Shrusti complex, Nr. Gurudwara, Jamnagar		
10	Tata Chemical SocietyforRural Development Foundation, At. Mithapur, Ta Dwarka, DistJamnagar		
11	Agakhan Rural Development Trust		
12	ANARDE foundation trust	1	
		1	

6.2 Details of linkage with ATMA

a) Is ATMA implemented in your district (Yes/No) :- Yes

S. No.	Programme	Nature of linkage	Remarks
1	District Level Training	Impart Training on Agricultural Aspects	Celeberate Technology week Arrangement of KrishiMela
2.	Block level training	Lecture delivered	

3.	Village level training	

6.3 Give details of programmes implemented underNational Horticultural Mission

S. No.	Programme	Nature of linkage	Constraints if any
1	-	-	District is not inovolve in NHM

6.4Nature of linkage with NationalFisheriesDevelopmentBoard

S. No.	Programme	Nature of linkage	Remarks
1.	-	-	-

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

S.No.	Name of the agency / scheme	Name of activity	Technical programme with quantification	Financial outlay (Rs.)	Names of the team members involved
1	DAMU	Farmers meeting for awareness	10	500000	Dr. K. P. Baraiya V. L. Kikani
		weather based agro advisory	52		A. V. Savaliya R. B. Pandya

6.5.1. Details of activities planned in DFI villages

Name of DFI village selected	Total No. of families in the village	Interventions planned during 2021	No. of families to be covered under the intervention	Present annual income of the family (Rs /annum)	Expected annual income of the family after intervention (Rs/ annum)
Chantragadh	315	FLD, Training	10	-	-
Lothiya	291	FLD, Training	10	-	-
Khoja Beraja	390	FLD, Training	10	-	-
Nani Banugar	285	FLD, Training	10	-	-
Gadhka	1450	FLD, Training	10	-	-

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			

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

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

6.6. Activities planned in respect of FPOs / FPCs

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

S.	Name of the FPO	No. of	Major activities of FPO /	Type of support to be
No	/ FPC	members	FPC	provided by KVK
1	Organic	20	Collaborative production,	Technical guideline,
	Producer		value addition and	

	marketing	

7.0 Con	7.0 Convergence with other agencies and line departments in the district:						
	Name of the department	Type of convergence	Area (ha) / No. of				
S. No.	/ Agency		farmers to be				
			benefited				
1	ATMA	 Organizing collaborative training to farmers 					
2	DWDU	For collaborative off campus training					
3	DAO	For collaborative training and demonstration					
4	DRDA	Programme					
5	GGRC	 Collaborative on campus training programme 					
6	NABARD	 For providing hostel facilities to participants and 					
7	SPICE BOARD	organizing collaborative MahilaKrishiMela					
8	STATE HORTICULTURE	Celebrating important days and programmes by					
9	CENTRAL WEREHOUSE	central government as well as state government					
10	TATA CHEMICAL	Field visit to gather					
11	ENARDE Foundation	Diagnostic visit on farmers field with line					
12	BIAF	department					
13	ACT Sanstha						

8. Innovator Farmer's Meet 2021

SI.No.	Particulars	Details	Expected No. of participants
1	Farm innovators meet planned	Month proposed : October	50

9. Utilization of hostel facilities					
S. No.	Month	No. of days to be utilized			
1	As pepr requirement of training				
2					
3					
4					
	Total				

10. Details of online activities planned (If any)

10. 0	o. Details of offiline activities planned (if arry)							
S.	Type of activities	No. of Mode of implementation (Video		No. of				
No.		programmes	conferencing / Audio Conferencing /	participants				
		-	Facebook Live / YouTube Live, etc)	to be covered				
1	Farmers trainings	2	Video conferencing	60				
2	Farmers scientist's	1	Video conferencing	20				
	interaction programme		_					
3	Farmers seminars	1	Video conferencing	50				
4	Expert lectures	2	Video conferencing	60				
5	Any other (Pl. specify)							

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
1	Assessment of kitchen gardening trainings in rural areas in Jamnagar & Devbhumi Dwakra district	State Government	JAU	2021	Training Survey
2	Usefulness about Agromet advisory service	DAMU-ICAR		2021	Survey

among the farmers of		
Jamnagar district		

Annexure - I

TRAINING PROGRAMMES

i) Farmers & Farm women (On Campus)

Date	Client ele	Title of the training programme	Duration in days		mber ticipa			mbe		G. Total
				М	F	Т	М	F	Т	
Crop Product	ion									
Quarter-2 nd	PF	Doubling Farmers income through scientific production technology of major kharif crops	1	24	0	24	1	0	1	25
Quarter– 3 rd	rter– 3 rd PF Water management through micro irrigation 1 system in kharif crops		1	25	0	25	0	0	0	25
Quarter-4 th	uarter-4 th PF Organic Farming: A Step towards doubling farmers income				0	24	1	0	1	25
Horticulture										
Quarter– 3 rd	PF	Nursery Management	1	0	20	20	0	5	5	25
Soil Health										
Quarter –3 rd	PF	Importance of major and micro nutrient in crops production	1	18	5	23	1	1	2	25
Livestock pro	d.									
Quarter-2 nd PF		Feed and Fodder Management in Animal Husbandry	1	25	0	25	0	0	0	25
Home Sc.										
Quarter-2 nd	PF	Value addition in fruits, vegetables and agriculture produce for doubling farmers income	1	0	25	25	0	0	0	25
Quarter-4 th	PF	House hold food security by kitchen gardening and nutrition gardening	1	0	19	19	0	6	6	25
Agril. Engine	ering									
Quarter-4 th	PF	Installation and Maintenance of micro irrigation system	1	22	0	22	3	0	3	25
Plan prot.										
Quarter-2 nd	PF	IPM in vegetable and summer crops for doubling farmers income	1	22	0	22	3	0	3	25
Quarter– 3 rd	PF	Bio-control of pest & Diseases for doubling farmers income	1	25	0	25	0	0	0	25
Quarter-4 th	uarter-4 th PF IPM and IDM in rabi crops for doubling farmers income		1	25	0	25	0	0	0	25
Production o	f Inputs	at site								
Quarter-1 st	PF	Vermi-compost production	1	23	0	23	2	0	2	25

ii) Farmers & Farm women (Off Campus)

Date	Clie ntel	Title of the training programme	Durat ion in						Number of SC/ST			
	е		days	M	F	Т	М	F	T			
Crop Product	ion											
Quarter-2 nd	PF	Groundnut seed production Technology	1	21	2	23	2	0	2	25		
Quarter – 3 rd	PF	Integrated Weed Management in Oilseed crops	1	21	3	24	1	0	1	25		
Quarter-4 th	PF	Techniques of weed Management in Pulse crop	1	20	6	26	2	2	4	30		
Soil Health												
Quarter-2 nd	PF	Use of bio-fertilizers and recycling of farm waste through composting	1	28	0	28	2	0	2	30		
Quarter – 3 rd	PF	Integrated Nutrient Management in Groundnut	1	22	7	29	1	0	1	30		

Quarter-4 th	PF	Integrated Nutrient Management in rabi crops	1	19	6	25	0	0	0	25
Livestock pro	d.									
Quarter-1 st	PF	Importance of Nutrients and Feed	1	0	25	25	0	0	0	25
		Management in Animal Husbandry to increase								
		milk production								
Home Sc.										
Quarter-1 st PF Importance of nutrition in daily diet and techniques		1	0	25	25	0	0	0	25	
		of Minimization of nutrition loss in processing								
Quarter-2 nd	PF	food processing and value addition in fruit,	1	0	25	25	0	0	0	25
		vegetable, and other agricultural produce for								
		doubling the farmer income								
Quarter-2 nd	PF	House hold food security by kitchen gardening	1	0	19	19	0	6	6	25
		and nutrition gardening								
Quarter-3 rd	PF	Women empowerment through bakery	1	0	25	25	0	0	0	25
Quarter-4 th	PF	Boosting immunity through fruit and	1	0	25	25	0	0	0	25
		vegetables								
Plan prot.										
Quarter-1 st	PF	IPM in vegetable crops: onion & garlic	1	25	0	25	0	0	0	25
Quarter-2 nd	PF	Management of pink bollworm in cotton &	1	20	0	20	5	0	5	25
		management of white grub in groundnut and								
		other kharif crops								
Quarter-3 rd	PF	Management of diseases in kharifcrops	1	25	0	25	0	0	0	25
Quarter-4 th	PF	Integrated Disease and pest management in	1	20	0	20	5	0	5	25
		cumin and gram for doubling the farmers								
		income								
Quarter-4 th	PF	Store grain pests and its management for	1	25	0	25	0	0	0	25
		reduction the storage loss								
Production o	f Inpu	ts at site								
Quarter-1 st	PF	Seed production technology of summer	1	22	0	22	3	0	3	25
		sesame								
Quarter-3 rd	PF	Bio pesticides production	1	25	0	25	0	0	0	25
		1								

ii) Vocational training programmes for Rural Youth

Crop / Enterprise	Identified	Identified Training title* N		Duration (days)	No. of Participants			SC/ST participants			G.Total
Enterprise	Tillust Area			(days)	М	F	Т	М	F	Т	
Rural craft	women Empowerment	Income generation activities for empowerment of rural women through rural crafts	April	4	0	20	20	0	5	5	25
Integrated farming	Integrated farming	Integrated farming system	Feb.	4	16	0	16	9	0	9	25

iii) Training programme for extension functionaries

Date	Clientele	Title of the training programme	Duration in days		No. o	-		r of T	G. Total	
				M	F	Т	М	F	Т	
On Cam	pus									
	EF	Pre-seasonal training on <i>kharif</i> crops (Pigeon pea, Green gram, Groundnut, Cotton)	2	20	0	20	5	0	5	25
	EF	Crop production technology in Cumin, Gram, Wheat, Onion, Garlic	2	20	20 0 20			0	5	25
Off Cam	pus									
	EF	Pre-seasonal training on <i>kharif</i> crops (Pigeon pea, Green gram, Groundnut, Cotton)	2	20	0	20	5	0	5	25
	EF	Constraints of kitchen gardening and their remadies	2	0	20	20	0	5	5	25

Quarter and discipline wise summary of training programme :

Discipline	Subject		0	n-Ca	mpus			GT				
	Code			Qua	rter							
		ı	II	Ш	IV	Total	-	II	Ш	IV	Total	
(A) Farmers & Farm Women, Rural Youth												
l Crop Production	СР		1	1	1	3	0	1	1	1	3	6
II Horticulture	НО			1		1					0	1
III Soil Health and Fertility Management	SFM			1		1		1	1	1	3	4
IV Livestock Production and Management	LPM		1			1	1				1	2
V Home Science/Women empowerment	WOE	0	1	0	1	2	1	2	1	1	5	7
VI Agril. Engineering	AEG				1	1					0	1
VII Plant Protection	PLP		1	1	1	3	1	1	1	2	5	8
VIII Fisheries	FIS					0					0	0
IX Production of Inputs at site	PI	1				1	1		1		2	3
X Capacity Building and Group Dynamics	CBD					0					0	0
Tota		1	4	4	4	13	4	5	5	5	19	32
(B) Extension Functionaries	EF		1	1		2		1	1		2	4
(C) Rural youth	RY	1				1		1			1	2
Total		2	5	5	4	16	4	7	6	5	22	38

iv) Sponsored programme

Discipl ine	Sponsoring agency	Clie ntel	Title of the training programme	No. of course	No. of	partici	pants	_	mbe SC/S	-	G. Total
		е		M F T M					F	Т	
a)	Sponsored	traini	ng progdramme								
AEG	ATMA	PF	Importance of MIS	2	80	0	80	20	0	20	100
PLP	ATMA	PF	Kharif crop protection and production technology					10	10	20	160
SFM, AEG	AGAKHAN	PF	INM and MIS in rabi crops	2	50	50	100	5	5	10	110
PLP	DAO	PF	Integrated pest and diseases management in cumin	·					0	0	60
PLP	ATMA	PF	IPM & IDM in groundnut, cotton crops	IDM in groundnut, cotton crops 1 55 0 55 5				5	0	5	60
PLP	DAO	PF	IPM, IDM, INM in groudnnut and cotton					5	0	5	60
PLP	ATMA	PF	IPM & IDM in kharif crop	1	55	0	55	5	0	5	60
PLP	Dy.D.Hort.	PF	IPM, IDM, INM in Horticultural Crops	1	55	0	55	5	0	5	60
PLP	ATMA	PF	IPM, IDM, INM in Horticultural Crops	1	55	0	55	5	0	5	60
PLP	DWDU	PF	IPM & IDM in kharif crop	1	55	0	55	5	0	5	60
PLP, CP	ATMA	PF	Seed Production technology and IPM in these crops	1	55	0	55	5	0	5	60
PLP	ATMA	PF	Storage Techniques and IPM in summer crops	1	0	55	55	0	5	5	60
			Total	16	675	145	820	70	20	90	910
b)	Sponsored	resea	rch programme								
			Total								
c)	Any specia	·				1	1 1	1		ı	
SFM	ATMA	PF	,			100	10	10	20	120	
WOE	ATMA	PF	Mahila Krushi Divas 1 0 100 100 0				0	20 30	20	120	
			Total	Total 2 50 150 200 10						40	240

Annexure - II

Details of Budget Estimate (2020-21) based on proposed action plan

S. No.	Particulars	BE 2021-22 proposed (Rs.)
25.1	Recurring Contingencies	
25.1.1	Pay & Allowances	123
25.1.2	Traveling allowances	2
25.1.3	Contingencies	35
Α	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	
В	POL, repair of vehicles, tractor and equipment	
С	Meals/refreshment for trainees (ceiling up to Rs.40/day/trainee be maintained)	
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	
Ε	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	
Н	Maintenance of buildings	
I	Establishment of Soil, Plant & Water Testing Laboratory	
J	Library	
25.1	TOTAL Recurring Contingencies	160
25.2	Non-Recurring Contingencies	
25.2.1	Works	50
25.2.2	Equipment including SWTL & Furniture	
25.2.3	Vehicle (Four wheeler/Two wheeler, please specify)	
25.2.4	Library (Purchase of assets like books & journals)	1
25.2	TOTAL Non-Recurring Contingencies	51
25.3	REVOLVING FUND	
25.4	GRAND TOTAL	211

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Annexure-III

NEW TECHNICAL PROGRAMME

Nev	w Technical Projec	t Pı	roposal 1 (Home Science)
1	Title		Assessment of knowledge of farm women about kitchen gardening in
			rural areas in Jamnagar & Devbjhumi Dwarka district
2	Background information		Kitchen gardening is the revolutionary step to increase vegetables production as well as provision of cheap vegetables to the consumers. Kitchen gardening contributes to household food security by providing direct access to food on a daily basis. Vegetables are major source of vitamins, minerals, and fibers; their nutritive and medicinal values in human life are well documented. There are many social benefits that have emerged from kitchen gardening practices, better health and nutrition, increased income, employment, food security within the household, and enhance in community social life. Apart from having a good amount of production of vegetables at national level, the per capita availability in diet is quite low in our country. The daily requirement of vegetable is around 300 gm as per ICMR but the availability is very low. Many of the rural families used to grow vegetables in their backyards for their household consumption. But still they lack in adequate consumption of vitamins and minerals because of unorganized cultivation of vegetables. Keeping in view the importance of vegetables in daily diets and its low availability, the Krishi Vigyan Kendra has conducted various training and demonstrations on kitchen gardening under Women in Agriculture discipline.
3	Objective	:	 Assessment of the Pre and post training knowledge of farm women regarding establishment of kitchen garden To study Major Constraints perceived in the establishment of kitchen garden
4	Principal Investigator	:	Smt. A. K. Baraiya, Scientist (Home Science), KVK, JAU, Jamnagar
	Co-investigator		Dr. K. P. Baraiya, Senior Scientist & Head, KVK, JAU, Jamnagar Dr. H. M. Gajipara, Director of Extension Education, JAU, Junagadh
5	Location		Jamnagar District
6	Year of Commencement	:	2021-22 to 2023-24 (three years)
7.	Experimental Detail/ Methodology		The study area of this research programme will be KVK selected three blocks <i>viz.</i> , Jodia, Dhrol of Jamnagar District and Khambhaliya of Devbhumi Dwarka District. From each block Five villages and from each selected villages twenty women respondent will be select randomly for the study. Thus, 300 women will constitute the sample size for this study. For collection of data personal interview technique will be use. Data will be collect with the help of structured interview schedule. Frequencies, percentage and mean percent score will be used for analysing the data statistically

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Nev	w Technical Project	t Pr	oposal 2 (DAMU-GKMS)
1	Title	:	Usefulness of Agro-met advisory service to the farmers of Jamnagar
			district
2	Background information		Climate is the most limiting factor for crop grown. While all other physical factors, inputs and agronomic practices can be manipulate, vagaries of weather cannot be controll. However, adverse effects on crops can often be mitigat. Thus, risk in agricultural operations can be minimiz by the provision of weather information properly interpreted for their agricultural significance, containing advisories for farm operation and disseminated well in advance of the impending weather. In view of above, Agrometeorological Advisory Service (AAS) arebeing rendered by India Meteorological Department (IMD), Ministry of Earth Sciences (MoES) under Gramin Krishi Mausam Sewa (GKMS) scheme as a step towards contribution to weather information-based crop/livestock management strategies and operations dedicated to enhancing crop production. District Agro meteorological Unit (DAMU) is functional running at Krishi Vigyan Kendra, JAU, Jamnagar since 2 nd November, 2020. The District Agro meteorological Unit, KVK, JAU, Jamnagar is prepare block level Agromet advisory bulletin for all the 6 block viz. Dhrol, Jodia, Jamjodhpur, Jamnagar, Kalavad, Lalpur of Jamnagar district and also prepare district level advisory bulletin for Jamnagar district separately. The overall objective of the study is to how to useful weather bulletin at farmers level in crop/livestock production. It would also give the information on the suggestions to the improvement in weather
3	Objective	:	bulletin.1. To find out usefulness about Agromet advisory service at farmers level2. To improve advisory of weather bulletin with the help of farmers feedback
4	Principal Investigator	:	Dr. K. P. Baraiya, Senior Scientist & Head, KVK, JAU, Jamnagar
	Co-investigator		Mr. A. V. Savliya, SMS, Agromet, KVK, JAU, Jamnagar Mr. R. B. Pandya, Agromet Observer, KVK, JAU, Jamnagar Dr. H. M. Gajipara, Director of Extension Education, JAU, Junagadh
5	Location	:-	Jamnagar District
6	Year of	:	2021-22
	Commencement		
7.	Experimental Detail/ Methodology	:	The present research study will conduct in jurisdiction of Krishi Vigyan Kendra, JAU, Jamnagar. All 6 blocks of Jamnagar district will be select for study. From every block, randomly 50 farmers will be select, who join with KVK weather Whats app group. Thus, 300 farmers will be select for final study. Data will be collect with the help of personal interview schedule. Personal interview method data were processed, tabulated, classified and analyzed in respective of objective