# **ANNUAL PROGRESS REPORT - 2023**

# (1<sup>st</sup>January 2023 to 31<sup>st</sup>December 2023)

**KRISHI VIGYAN KENDRA** 

# JUNAGADH AGRICULTURAL UNIVERSITY, JAMNAGAR

# **DETAIL REPORT OF APR-2023**

#### **1. GENERAL INFORMATION ABOUT THE KVK**

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

Address	Telephone		Email	Website address &
Address	Office	FAX	E maii	No. of visitors (hits)
Krishi Vigyan Kendra	(0288)	(0288)	kykiampagar@gmail.com	www.jau.in
Millet Research Station, JAU	2710165	2710165	kykiampagar@iau.in	26818179
Air force Road, Opp. Digjam Mill			KvKjarinagar@jau.iri	
Jamnagar- 361 006				

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

A datasa	Telephon	е	C mail		
Address	Office	FAX	E-man	web address	
Junagadh Agricultural 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 Krishi Vigyan Kendra Junagadh Agricultural University, Air force Road, Opp. Digjam Mill Jampagar- 361 006	9427980032	kvkjamnagar@gmail.com kvkjamnagar@jau.in				

**1.4. Year of sanction** :ZARS (KVK) 2001, Letter No.F.No. 18(4)/99-NATP Dated October 31<sup>st</sup>, 2001 ICAR (KVK) 2004, Letter No.F.No. 8(1)/2002-AE-II(Pt.) Dated February 5<sup>th</sup>, 2004

#### 1.5. Staff Position (as on December 31, 2023)

SI. No	Sanctioned post	Name of	Mobile No.	Mobile No. Discipline		ent, please cate	Date of	lf Temporary, pl. indicate
100.		incumbent			Current Pay Band	Presen t Basic	Johning	the consolidated amount paid (Rs./month)
1	Senior Scientist & Head	Dr. K.P.	9427980032	Plant	131400-	152300	24.03.2015	
		Baraiya		Protection	217100			
2	Scientist	Vacant		Crop	57700-			
				Production	182400			
3	Scientist	Vacant		Plant	57700-			
				Protection	182400			
4	Scientist	Vacant		Horti./ Ag.	57700-			
				Engg	182400			
5	Scientist	Vacant		Ext.	57700-			
				Education	182400			

					-	r		
6	Scientist	Vacant		Fisheries/	57700-			
				Veterinary	182400			
7	Scientist	Smt. A. K.	9998227607	Home	68900-	98300	17.08.2006	
		Baraiya		Science	205500			
8	Farm Manager	Smt. D. G.	9737933102	Agronomy	39900-	39900	30.07.2018	
		Patel			126600			
9	ProgrammeAssistant	Shri N. D.	9824720448	Agril.	39900-	39900	01.02.2020	
		Ambaliya			126600			
10	ComputerProgrammer	Shri C. P.		Computer	39900-	55200	29.12.2008	
		Padhiyar		Operator	126600			
11	Accountant /	Vacant		Adm.	39900-	-	-	
	Superintendent				126600			
12	Stenographer	Shri V. A.	720397302	Adm.	19900-	-	27.07.2021	26000/-
		Jadav	6		63200			-
13	Driver	Vacant		Supt.	19900-	-	-	
					63200			
14	Driver	Shri. D.M.	9824173712	Supt.	19900-	29300	9.10.2007	
		Chauhan			63200			
15	Supporting staff	Shri B. V.	9904553794	Supt.	14800-	20900	01.11.2014	
		Bamaniya			47100			
16	Supporting staff	Shri B. G.	982455110	Supt.	14800-	-	-	
		Mokariya	5		47100			
1			1		1	1	1	

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

SI. 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							
cı		Sourcoof		Complete				Incomplete		
51. No	Name of building	funding	Comp-		Expen-	Star-	Plinth	Status of		
NO.		Tunung	letion	Plinth area (Sq.m)	diture	ting	area	const-		
			Date		(Rs.)	Date	(Sq.m)	ruction		
1.	Administrative	KVK	15 0 11	550	5500000					
	Building	K V K	13-0-11	550	3300000					
2.	Farmers Hostel	KVK	15-8-11	305	3000000					
3.	StaffQuarters (6)	KVK	15-8-11	400	4000000					
4.	Demonstration Units	KVK +	21 2 07							
	of vegetable	ATMA	31-3-07	-	-	-	-	-		
5	Poly House	RKVY	31-3-09	320	281602	-	-	-		
6	Net House	RKVY	31-3-09	150	64498	-	-	-		
7	Training Hall	RKVY	20-2-10	190.99	1395800	-	-	-		
8	Process Plant	RKVY	20-2-10	197.31	1536400	-	-			
9	Implement shed	RKVY	11-2-10	77.33	297800	-	-	-		

10	Rain Water harvestingsystem	KVK	31-3- 2007	26m×26m (2 Ponds)60m×60m (1	999000	-	-	-
			2007	Pond)				
11	Fencing	-		Not Available	-	-	-	-
12	Threshing floor	-		Not Available	-	-	-	-
13	Farm godown	-		Not Available	-	-	-	-
14	Soil and water testing lab	KVK	2004	Instruments not working	650000			
15	Mini soil testing Kit	KVK	2012	Instruments not working				
16	Sell Contour	-	-	Not available	-	-	-	-
17	Demo unit (MIS)	ATIC	2018	Parcial working	1300000			
18	ICT lab	-		Not Available	-	-	-	-
19	Solar Panel	State	2016	Partical working	1000000	-	-	-
20	counter seal			Not available				
21	Other pl mention	-		Not Available				
19 20 21	Solar Panel counter seal Other pl mention	State -	2016	Partical working Not available Not Available	1000000	-	-	-

#### **B)** Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Toyota Qualis (GJ-10G 433)	2004-05	490200	524255	Not Working (it is required to be right off)
Hero Honda splendor(bike)GJ-10 BB-1634	2010-11	46475	26265	Working
Mahindra Scorpio (GJ-10 GA-0535)	2019	1032156	61825	Working
Tractor Mahindra B-275 DI TU (Bhoomiputra) (GJ-10GA 0885)	2019	432205	-	Working

#### C) Equipments& AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Presentstatus
Contain Mini Tractor	2001.02	100100	Under process for
	2001-02	100125	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	00000	Working
Grinder	2005-06	80080	Working
Refrigerator	2005-06	16772	Working
Oven	2005-06	20550	Working
Hot plate	2005-06	50550	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	2012	34750	Working
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
	2012	-3350	

#### 1.8. A). Details SAC meeting conducted in the year

SI.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.	07.03.2020	35	-	-
17.	08.02.2021	41	-	-
18	09.03.2022	34	-	-
19	09.02.2023	50	As below	As below
20	03.02.2024	35	-	-

The Nineteenth Scientific Advisory Committee meeting of Krishi Vigyan Kendra, JAU, Jamnagar was held at Training Hall, Krishi Vigyan Kendra, JAU, Jamnagar on February 9, 2023.

# Suggestions made by committee members during presentation:

SI.	Name and	Salient Recommendations	Action taken		
No.	Designation of				
	Participants				
1	Dr. V. P. Chovatiya, Hon'ble Vice Chancellor, Junagadh Agricultural	Analyze the pooled result of three years OFT organized in jurisdiction.	Suggestion accepted and incorporated, all the OFT completed three years have analyzed and presented by		
	University, Junagadh		pooled results		
		Organized technology week with the period when maximum farmers can use newer technology and spread among maximum farmers.	Suggestion accepted and incorporated, last year organized during 21-25 August, 2023.		
		Arrange training on IPM in ajwain through natural farming.	Suggestion accepted and incorporated. Training on IPM in Ajwain arranged for farmers of Jodia taluka (61) participants.		
		Replace coriander variety GCr-3 instead of GCr-2 for FLD	Suggestion accepted and incorporated. Replace coriander variety GCr-3 instead of GCr-2 for FLD. For FLD on GCr-4 variety also planned for 2024 action plan.		
		In case of FLD of vegetable synchronize observation of picking	Suggestion accepted and incorporated, during current year FLD on brinjal have been organized, and collecting data on picking wise.		
		Arrange training on efficient use of irrigation in garlic	Suggestion accepted and incorporated. Training on irrigation management in garlic have been organized on 26.10.2023 with 60 participants.		
		<ul> <li>Give more emphasis on preparation of DAMU advisory well in advance</li> </ul>	Suggestion accepted and incorporated. On receiving of data from IMD, Ahmedabad, immediately preparation and dispatched to farmers group.		
		Change training title "bio-product preparation" to "production of natural farming inputs".	Suggestion accepted and incorporated. Title of training changed "product9on of natural farming inputs" and also organized on		
		Give HRD training needs of scientist	Suggestion accepted and incorporated. All the scientist have been informed for HRD training needs.		

2	Dr. H. M. Gajipara,	≻	Promotion	of	farmers	through	Suggestion	accepted	d	and
	Director of Extension		preparation	of su	ccess storie	es	incorporated.	Success	story	/ of
	Education, JAU,						farmers prepa	red and p	oublis	hed
	Junagadh						in Annual pro	gress rep	orts	and
							send to ICAR.			
		۶	Maximize th	e pre	ess out of th	ie work	Suggestion	accepted	d	and
			done by KVK				incorporated.	Maxim	um t	ried
							to press out.			
3	Shri R. S. Gohil,		Create awar	eness	s on nano fe	ertilizers	Suggestion	accepted	d	and
	District Agriculture		during differ	ent e	xtension		incorporated.	During	diffe	rent
	Officer, District		programmes	<b>.</b>			extension p	rograms,	aw	vare
	Panchayat, Jamnagar						farmers abo	ut use	of n	ano
							fertilizers.			

20<sup>th</sup> SAC proceeding along with list of participants in Annexure -1.

#### 2. DETAILS OF DISTRICT

The district of Jamnagar is lies in North Saurashtra AgroClimatic 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 km<sup>2</sup> 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 evapo-transpiration 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 water scarcity area droughts are common in this region draughts of moderate to severe intensity 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 resourced evelopment in 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 talukas 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.

Sr. No.	Details	JAMNAGAR	DEVBHUMI DWARKA
1	Total geographical area	6.075 lakh ha.	4.07509 lakh ha.
2	Total cultivable area	4.32 lakh ha.	2.52 lakh ha.
3	Net cultivated area	3.53 lakh ha.	2.38 lakh ha

#### Basic information of operational district, Jamnagar and Devbhumi Dwarka:

4	Total area under forest	0.43 lakh ha.		0.1736 lakh ha		
5	Total irrigated area	0.939 lakh ha.		0.23092 lakh ha.		
6	Number of holdings	1.44 lakh		1.17 lakh		
7	Average annual rainfall	550 mm.		550 mm.		
8	Soil type	Medium black		Medium black		
9	Total number of villages	421 (8 city)		249 (8 city)		
	Total population	13.89 lakh (2011)		7.52 lakh (2011	L)	
10	(a) Male	7.18 lakh.		3.84 lakh.		
	(b) Female	6.71 lakh		3.64 lakh.		
11	Literacy percentage	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		
10	Number of tolulos	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)

S. No				Farming system/enterprise
1	Crops	Cereals	:	Pearl millet, Sorghum, Wheat, Maize
		Pulses	Greengram, Blackgram, Chickpea, pigeonpea	
		Oilseeds	:	Groundnut, Sesamum, Castor, Mustard,
		Cash crops	:	Cotton,
		Spices and condiments	:	Cumin, Fennel, Coriander, ajwan, Ishabgul
		Vegetables		Onion, garlic, potato, chilli, binjal, tomato, cauliflower,
		vegetables		Cowpea, cabbage, okra, peach, cucurbits etc
				Chiku, pomegranate, lemon (Citrus), Jamun, Aonla, guava,
		Horticulture	:	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&majoragroecological 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 to150 metersPhysicalfeatures of the area vary from flat landto150 meters above meansea 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 zoneintodistrictagroecological 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 agroecological 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.

SI. No.	AgroEcologica ISituation	Soiltex ture	Altitude	Principal crops	Specialfeatur es	Approximate area (000ha)	Taluka included	Characteristics
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	Moisturestress, temperaturestr ess
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	Moisturestress, temperature stress
AES-3	Coastal Alluvial soils with 300-400 mm Rainfall	Clayey Ioam 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 Ioam toclay Ioam	0-25	Sorghum, Pearlmillet, Groundnut, Sesamum	Aridclimate	31	Okha	Known salinityforgenu s 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	e Characteristics			
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 Ustorthents and Ustochrepts. 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	,
		lavering 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 Jampagar (Some part of Kalvanpur, KHambhaliya&	180000 ha
	black	Jampagar, major part of Jalpur. Dhrol, Jodiataluka is covered under medium	(Part of
	soils	black soils. These residual soils have basaltic tran parent materials. These soils	Kalvannur
	50115	vary in denth from 30 to 60 cm or more at few places. They are calcareous in	lamnagar
		nature A layer of murrum (Unconsolidated material of decomposed tran and	lamkham-
		limestone) is generally found in sub soil layer. The drainage does not nose any	
		infestorie) is generally found in sub soil layer. The drainage does not pose any	Dhrol Iodia)
		Morphologically, the profile of these soils has A C herizon characteristics	Dilloi, Joula)
		having moderate cub angular blocky structure. They are plastic and sticky and	
		having moderate sub angular blocky structure. They are plastic and sticky and	
		hard in consistency on drying. The colour of these solis values from very dark	
		brown to light grey. Taxonomically, these soils are classified as <i>Ostochrepts</i> in	
		inceptisol order. The solis 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</i> – <i>Ustochrepts</i> at sub group level.	
		The solis 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 <sup>-7</sup> .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	
		from 5.26 to 20.36 per cent in these soils.	
3.	Saline	Saline alkali souls are extensively distributed on the coastal are3a as well as	181000 ha
	alkali	inlands. These soils are located in the districts of Jamnagar (Jodia, part of	(Jodia, part of
	soils	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	Jamnagar)
		coastal areas). The souls are classified as Fluvaquents, Halaquents,	
		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.	

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c			Jamnagar		Devbhumi Dwarka			
S. No	Сгор	Area (ha)	Production	Productivity	Area (ha)	Production	Productivity	
		. ,	(Qtl)	(Qtl /ha)		(Qtl)	(Qtl /ha)	
	Oilseeds							
1	Groundnut	156272	4759460	25.46	202915	5391610	23.95	
2	Sesame	8791	73110	8.16	4262	14480	7.31	
3	Castor	5204	150930	29.00	0	0	0	
4	Soybean	2449	38750	15.82	0	0	0	
5	Mustard	3406	66970	19.66	5884	82190	13.97	
	Total Oilseeds	176122	5089220	20.87	213061	5488280	11.31	
	Cash Crops							
5	Cotton	159183	1520200	9.55	10219	61310	6.00	
6	sugarcane	0	0	0	0	0	0	
	Total Cash Crops	159183	1520200	9.55	10219	61310	6.00	
	Food Grain							
7	Wheat	32615	1236980	37.93	8030	340150	42.36	
8	Pearl millet	680	20320	29.88	100	3100	31.00	
9	Sorghum	0	0	0	0	0	0	
10	Maize	0	0	0	0	0	0	
	Total Food Grains	33295	1257300	33.91	8130	343250	36.68	
	Pulse Crops							
11	Greengram	3587	34880	9.71	1979	11070	7.63	
12	Blackgram	2121	20780	10.6	2905	9710	8.54	
13	Cowpea	0	0	0	0	0	0.00	
14	Pigeon pea	2260	3906	17.28	0	0	0	
15	Moothbean	0	0	0	0	0	0	

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

		1					
16	Chickpea	84336	1422640	16.87	59991	1337090	22.29
17	Cluster bean	15	110	7.50	0	0	0.00
	Total Pulses	92319	1482316	12.39	64875	1357870	12.82
	SPICES AND						
10	CUNDIVIENTS	7206	66204	0.10			10 5
10	Cumin	7290	00394	9.10	0	0	10.5
19	Fenner	250	2052	15.0	50	075	10 5
20	Coriandor	17272	2952	11.4	22455	502052	19.5
21	Aiwan	2710	242322	14.0	152	1269	13.3
22	Ajwan	5710	12/7	19.0	132	12625	17 5
23	Contin	00	02769	18.50	/22	12033	17.5
24	Garric	950	92708	96.9	0	0	0
25		4	100	1/5.0	0	0	0
26	Suwa	128	1805	14.1	0	0	0
	lotal spices	29733	444096	40.66	89337	1105589	14.4
27	VEGETABLES	1040	424005	224.0		12507	227.4
27	Onion	1848	434095	234.9	55	12507	227.4
28	Potato	38	9500	250.0	141	36660	260.00
29	Brinjai	1205	291610	242.0	981	132435	135.0
30		1499	445803	297.4	634	154062	243.0
31	Caulifiower	410	53874	131.4	190	27892	146.8
32	Cowpea	591	49585	83.9	289	19681	68.1
33	Cabbage	997	253936	254.7	388	/3/20	190.0
34	Okra	1614	136383	84.5	//3	61222	/9.2
35	Cucurbits	16/1	345062	206.5	1363	203223	149.1
36	Cluster bean	346	30517	88.2	219	15593	/1.2
37	Carrot	136	37074	272.6	16	2048	128.0
38	Sweet potato	4	1230	307.5	0	0	0
39	Spinach	6	530	88.3	5	300	60.0
40	Readish	64	6010	93.9	102	10812	106.0
41	IVIORINGA	141	45966	326.0	28	2408	86.0
42	Fenugreek	80	/960	99.5	920	79120	86.0
43		113	6/35	59.6	5	250	50.0
44	Green Chilli	618	118965	192.5	/26	74052	102.0
45	Other Vegetable	1162	224498	193.2	1802	169028	93.8
	I OTAL VEGETABLE	12543	2499333	144.56	8637	1075013	126.76
10		ABLES	46207	170.4	110	11022	102.0
46	Bottle gourd	259	4638/	1/9.1	116	11832	102.0
47	Bitter gourd	/9	7497	94.9	82	6642	81.0
48		418	55928	133.8	58	11362	195.9
49	Sponge gourd	/3	/548	103.4	58	4576	78.9
50	Ridge gourd	89	10911	122.6	59	4342	/3.6
51		210	42693	203.3	202	36400	180.2
52	vvater meion	543	1/4140	320./	/88	128050	162.5
		1671	345104	165.4	1363	203204	124.87
		450	40205		4.2.4	4 4 0 4 0	442.00
53	CIIIKU	159	18205	114.5	124	14012	113.00
54	Pomegranate	/10	91448	128.8	140	16940	121.0
55	Litrus	378	43205	114.3	98	9212	94.0

Aonla	24	2270	94.6	10	550	55.0
Guava	33	3000	90.9	16	888	55.5
Custard apple	82	7520	91.7	17	1207	71.0
Рарауа	56	31030	554.1	131	41920	320.0
Coconut	166	14874	89.6	410	36736	89.6
Ber	192	20659	107.6	178	14845	83.4
Kharek	151	13620	90.2	27	1674	62.0
Banana	8	3200	400.0	1	300	300.0
Mango	556	41144	74.00	111	6771	61.00
Jamun	18	1451	80.6	2	60	29.6
Orange	16	350	21.9	3	36	12.0
Bael	9	2320	257.8	0	0	0
Rayan(Khirni)	20	3600	180.0	11	347	31.5
Cordia(Gunda)	19	1980	104.2	16	992	62.0
Desi Almond	0	0	0	6	420	70.0
Kamlam	33	5782	175.2	4	330	82.5
Other fruits	121	16081	132.9	41	2136	52.1
Total Fruits	2751	321739	152.78	1346	149376	92.91
FLOWERS						
Rose	68	6521	95.9	16	1616	101.0
Merry gold	189	15536	82.2	56	4592	82.0
Mogra	3	320	106.7	7	595	85.0
Gaillardia	112	11380	101.6	40	3720	93.0
Other flowers	118	11942	101.2	41	3731	91.0
Total flowers	490	45699	97.52	160	14254	90.4
	AonlaGuavaCustard applePapayaCoconutBerKharekBananaMangoJamunOrangeBaelRayan(Khirni)Cordia(Gunda)Desi AlmondKamlamOther fruitsTotal FruitsFLOWERSRoseMerry goldMograGaillardiaOther flowersTotal flowers	Aonla24Guava33Custard apple82Papaya56Coconut166Ber192Kharek151Banana8Mango556Jamun18Orange16Bael9Rayan(Khirni)20Cordia(Gunda)19Desi Almond0Kamlam33Other fruits121Total Fruits2751FLOWERS8Merry gold189Mogra3Gaillardia112Other flowers118Total flowers118Total flowers118	Aonla         24         2270           Guava         33         3000           Custard apple         82         7520           Papaya         56         31030           Coconut         166         14874           Ber         192         20659           Kharek         151         13620           Banana         8         3200           Mango         556         41144           Jamun         18         1451           Orange         16         350           Bael         9         2320           Rayan(Khirni)         20         3600           Cordia(Gunda)         19         1980           Desi Almond         0         0           Kamlam         33         5782           Other fruits         121         16081           Total Fruits         2751         321739           FLOWERS          68         6521           Merry gold         189         15536           Mogra         3         320           Gaillardia         112         11380           Other flowers         118         11942	Aonla       24       2270       94.6         Guava       33       3000       90.9         Custard apple       82       7520       91.7         Papaya       56       31030       554.1         Coconut       166       14874       89.6         Ber       192       20659       107.6         Kharek       151       13620       90.2         Banana       8       3200       400.0         Mango       556       41144       74.00         Jamun       18       1451       80.6         Orange       16       350       21.9         Bael       9       2320       257.8         Rayan(Khirni)       20       3600       180.0         Cordia(Gunda)       19       1980       104.2         Desi Almond       0       0       0         Kamlam       33       5782       175.2         Other fruits       121       16081       132.9         Total Fruits       2751       321739       152.78         FLOWERS         95.9         Merry gold       189       15536       82.2 <tr< td=""><td>Aonla24227094.610Guava33300090.916Custard apple82752091.717Papaya5631030554.1131Coconut1661487489.6410Ber19220659107.6178Kharek1511362090.227Banana83200400.01Mango5564114474.00111Jamun18145180.62Orange1635021.93Bael92320257.80Rayan(Khirni)203600180.011Cordia(Gunda)191980104.216Desi Almond0006Kamlam335782175.24Other fruits12116081132.941Total Fruits2751321739152.781346FLOWERS11211380101.6Mogra3320106.777Gaillardia11211380101.640Other flowers11811942101.241Total Flowers11811942101.241Total flowers11811942101.241Total flowers11811942101.241</td><td>Aonla         24         2270         94.6         10         550           Guava         33         3000         90.9         16         888           Custard apple         82         7520         91.7         17         1207           Papaya         56         31030         554.1         131         41920           Coconut         166         14874         89.6         410         36736           Ber         192         20659         107.6         178         14845           Kharek         151         13620         90.2         27         1674           Banana         8         3200         400.0         1         300           Mango         556         41144         74.00         111         6771           Jamun         18         1451         80.6         2         60           Orange         16         350         21.9         3         36           Bael         9         2320         257.8         0         0           Rayan(Khirni)         20         3600         180.0         11         347           Cordia(Gunda)         19         1980         104</td></tr<>	Aonla24227094.610Guava33300090.916Custard apple82752091.717Papaya5631030554.1131Coconut1661487489.6410Ber19220659107.6178Kharek1511362090.227Banana83200400.01Mango5564114474.00111Jamun18145180.62Orange1635021.93Bael92320257.80Rayan(Khirni)203600180.011Cordia(Gunda)191980104.216Desi Almond0006Kamlam335782175.24Other fruits12116081132.941Total Fruits2751321739152.781346FLOWERS11211380101.6Mogra3320106.777Gaillardia11211380101.640Other flowers11811942101.241Total Flowers11811942101.241Total flowers11811942101.241Total flowers11811942101.241	Aonla         24         2270         94.6         10         550           Guava         33         3000         90.9         16         888           Custard apple         82         7520         91.7         17         1207           Papaya         56         31030         554.1         131         41920           Coconut         166         14874         89.6         410         36736           Ber         192         20659         107.6         178         14845           Kharek         151         13620         90.2         27         1674           Banana         8         3200         400.0         1         300           Mango         556         41144         74.00         111         6771           Jamun         18         1451         80.6         2         60           Orange         16         350         21.9         3         36           Bael         9         2320         257.8         0         0           Rayan(Khirni)         20         3600         180.0         11         347           Cordia(Gunda)         19         1980         104

\* Source : DAO, & Dy.Dir.Hort., Jamnagar

# 2.5. Weather data (January-2023 to December-2023)

	Weekly mean Weather data-at JAU, Jamnagar during-2023								
	Temp	. °c	R.	H.%	WS	BSS	Eo	Rain	Rainy
Week No	Max	Min	Ι	П	(kmph)	(hrs)	(mm)	(mm)	Days
1-J	25.4	13.4	59	29	6.3	9.1	3.5		
2	27.2	14.2	77	31	4.7	8.3	3.5		
3	25.5	11.6	63	24	5.1	9.6	3.6		
4	24.2	13.4	53	27	6.0	9.2	3.5		
5	27.1	13.4	72	25	5.3	9.3	4.6		
6-F	30.4	16.1	91	29	4.2	9.4	4.7		
7	32.4	15.3	68	19	4.4	10.2	5.2		
8	32.2	17.7	90	30	5.2	10.0	4.7		
9	34.1	19.2	86	27	3.7	9.6	4.6		
10-M	35.3	19.7	64	22	3.9	9.5	5.5		
11	33.7	21.1	77	31	4.4	7.1	5.1		
12	31.0	21.5	83	41	4.7	8.9	5.1	6.5	1
13	31.9	21.2	77	39	7.9	9.4	5.9		
14-A	33.2	22.2	81	37	8.4	9.0	6.5		
15	35.3	22.7	81	34	8.0	9.4	7.5		
16	35.3	24.4	83	49	9.7	9.9	8.1		
17	35.3	24.1	81	43	9.5	8.7	8.6		
18	33.3	23.9	84	49	6.7	8.6	6.7	37.5	3
19-M	37.2	25.7	84	35	9.5	11.4	9.1		
20	35.9	27.1	79	53	14.0	10.9	9.8		

21	36.4	27.4	81	53	11.8	10.9	9.8		
22	35.8	27.8	84	58	15.3	11.0	9.6		
23-J	37.0	28.1	83	48	15.2	9.5	9.6		
24	34.8	26.6	86	67	24.8	4.4	5.8	173.5	5
25	34.2	27.2	86	65	12.9	6.6	4.6		
26	32.7	26.0	95	80	7.0	3.3	3.2	316.5	5
27-J	33.6	26.9	94	74	6.9	4.6	3.5	140.0	2
28	32.7	27.1	91	72	9.8	5.6	4.1	50.0	2
29	32.8	26.8	91	82	10.7	4.2	3.5	123.0	3
30	31.5	26.7	92	80	10.1	4.0	3.3	130.0	4
31	31.5	26.4	88	75	12.7	2.0	4.5	3.0	1
32-A	32.0	26.9	87	72	14.0	3.4	5.3	1.0	
33	32.3	26.3	85	69	12.6	4.2	5.5	0.5	
34	31.8	26.1	87	64	12.1	5.0	4.9	12.5	1
35	33.0	25.2	86	59	8.4	6.3	5.4		
36-S	33.6	25.7	85	54	10.6	9.0	5.6		
37	33.6	25.9	85	59	10.1	8.7	5.7		
38	31.2	25.7	93	78	8.8	3.9	3.4	84.0	4
39	33.8	25.9	87	60	5.7	9.0	5.0	0.5	
40-0	34.9	23.5	94	53	5.6	9.1	4.7		
41	33.5	24.3	86	54	4.8	9.4	4.4		
42	33.7	23.2	85	42	4.2	8.9	4.5		
43	35.1	23.0	85	41	3.6	9.4	4.7		
44	34.4	21.5	69	32	3.3	8.3	4.3		
45-N	34.6	21.4	67	32	3.1	8.1	4.3		
46	31.4	20.2	49	32	3.5	8.5	3.9		
47	30.8	19.1	74	44	3.5	8.0	3.8		
48	27.4	19.3	87	56	5.7	6.5	3.5	2.0	
49-D	27.5	19.0	79	44	7.8	7.7	3.4		
50	27.9	14.7	76	36	3.0	8.7	3.6		
51	27.0	15.9	64	35	6.0	6.1	3.5		
52	28.1	15.4	79	35	4.5	8.2	3.7		
Mean	32.2	22.2	81	48	7.9	7.9	5.2	1080.5	31
Highest	37.2	28.1	95	82	24.8	11.4	9.8		
Lowest	24.2	11.6	49	19	3.0	2.0	3.2		

\* Source: Meteorological observatory, Millet Research Station, JAU, Jamnagar

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

Category	Jamnaga	ar district	Devbhumi Dwarka District		
	Population	Production	Population	Production	
Cattle	138176	75.60 MT	126509		
Buffalo	162333	161.92 MT	287600		
Sheep	214785		62504		
Goats	130282	8.89 MT	50263		
Camel	1960	0.88 MT	1582		
Horse	410		325		
Donkey	77		69		
Rabbits					
Poultry					
Fish					

Source: Dy. Dir. Ani. Hus., Jamnagar & Devbhumi Dwarka; Assistant Directorate of Fishries, Jamnagar

SI No	Taluka	Name of the village	Major crops & enterprises	Major problem identified	Identified thrust area
1	Dhrol	Katada, Jayva, Mansar (Jaliya), Kharva, Khengarka	Cotton, groundnut, sesame, castor,	Heavy infestation of sucking pest in cotton, stem rot disease&whitegrub	<ul> <li>ICM in major crops of the district</li> <li>Organic crop production</li> </ul>
2	Jam Jodhpur	Sonvadiya, Satapar, BhupatAmbardi, Dal DevaliyaLuvarsar	castor, greengram, wheat, Gram, cumin, mustard, Vegetable, Soyabean, flowers, live-stock, fisheries	in Groundnut, Root rot in castor, Less area under horticulture crops, Blight in cumin,	<ul> <li>Introduction of new crop</li> <li>Recycling of farm waste</li> </ul>
3	Jam Khambhalia	Keshod, ShedhaBhadthar, Samor, Jakasiya, Juvangadh		salinity, pink bollworm in cotton	<ul> <li>Popularization of MIS</li> <li>Motivation of fisheries cultivation</li> <li>Soil Reclamation</li> <li>Farm women empowerment</li> <li>Farm mechanization</li> </ul>

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

## 2.8 Priority thrust areas

SI. No	Crop/ Enterprise	Thrust area
1.	Cotton, groundnut,	Integrated Crop Management in major crops
	castor, cumin,	IPM & IDM in major field crops
	coriander, wheat,	Whitegrub management in Groundnut
	vegetables, fruits, etc.	Wireworm management in garlic & Onion
		Micronutriet management in wheat
2.	Organic farming	Enhancement of organic farming through improved
		technologies
3.	Farm waste/ organic	Recycling of farm waste through composting, vermicompost,
	matter	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 &	Efficient use of water by micro irrigation system, water
	use of Micro irrigation	harvesting structure, and water conservation techniques
13	Natural farming	Enhancement of natural farming through improved technologies

#### **3. TECHNICAL ACHIEVEMENTS**

# 3.A. Details of target and achievements of mandatory activities by KVK during 2023

	0	FT		FLD			
1				2			
Num	ber of OFTs	Total no. of Trials		Area in ha Number o			er of Farmers
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
5	5	17	17	92	92	277	277

Training					Extension Programme			
3				4				
Number of Courses Number of			umber of	Number of activities			imber of	
		Pa	rticipants			pai	rticipants	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement	
38	51	1480	2893	192	432	18166	43527	

Seed Prod	uction (Qtl.)	Planting material (Nos.)			
	3	6			
Target	Achievement	Target	Achievement		
275	354.96	1700	0		

Livestock, poultry strains	and fingerlings (No.)	Bio-products (Kg)		
	7	8		
Target	Achievement	Target Achievemer		
0	0	600	845	

#### 3.1. B. Operational areas details during 2023

S.No.	Major crops & enterprises being practiced in cluster villages	Prioritized problems in these crops/ enterprise	Extent of area (Ha/No.) affected by the problem in the district	Names of Cluster Villages identified for intervention	Proposed Intervention (OFT, FLD, Training, extension activity etc.)*
1	Groundnut	Lower yield, replacement of old variety, Sclerotium rot (stem rot), white grub	380000 ha.	Katada, Jayva, Mansar (Jaliya), Kharva, Khengarka, Sonvadiya, Satapar, BhupatAmbardi, Dal Devaliya, Luvarsar, Keshod, ShedhaBhadthar, Samor, Jakasiya, Juvangadh	OFT, FLD and Training
2	Chilli	Thrips, Curling of leaves, nutritional deficiency	1300 ha	_ " _	OFT, Training
3	Garlic	Puple blotch, wireworm, yellowing, tip burning	700 ha	- " -	Training
4	Onion	Purple blotch, bulb rotting	400 ha		OFT, Training
5	Sesame	Leaf webber, mite, blight, stem rot, root rot, yellowing, replacement of old variety	125000 ha.	_ " _	OFT, FLD and Training
6	Wheat	Fall army worm, Stem borer, Termite, nutritional deficiency,	60000 ha	- " -	FLD and Training

r	1				
7	Vegetabe	Drudgery reduction, cut & wounds,	1700 ha	- " -	FLD and Training
	mittens (Okra,	skin hardness, blisters and			
	Brinjal)	abrasions,			
8	Animal	Due to inadequate nutrients in the	Majority	- " -	FLD and Training
	Husbandry	daily ration, the % fat in milk and	farmers		
		productivity of the animal	(325000)		
		decreased hence, financial loss.			
9	Cotton	Pink bollworm, redding& yellowing	65000		FLD and Training
		of leaves, sucking pests, weevil,			
10	Chicory	ICM	45		FLD and Training
11	Cumin	Aphid, IPM, IDM, INM, variety	26300		FLD and Training
12	Ajwain	IDM, Variety	5045		FLD and Training
13	Coriander	IDM, IPM, Variety	2100		FLD and Training
14	Pearl millet	Fall army worm, Stem borer,	1200		FLD and Training
		Variety, IPM, IDM			
15	Chick pea	IPM, Variety, Stunt virus, IDM	32500		FLD and Training
16	Kitchen	Nutritional security	Majority		FLD and Training
	gardening		farmers		

\* Support with problem-cause and interventions diagram

# **3.2. Technology Assessment and Refinement** (Kharif 2023, Rabi 2022-23, Summer 2023) A1. Abstract on the number of technologies assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Integrated Nutrient										
Management										
Varietal Evaluation		1	1							2
Integrated Pest Management										
Integrated Crop Management										
Integrated Disease										
Management										
Small Scale Income Generation										
Enterprises										
Weed Management										
Resource Conservation										
Technology										
Farm Machineries										
Integrated Farming System										
Seed / Plant production										
Value addition										
Drudgery Reduction										
Storage Technique		1								1
Mushroom cultivation										
Total		2	1							3

#### A2. Abstract on the number of technologies refined in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Integrated Nutrient Management										
Varietal Evaluation										
Integrated Pest Management		1			1					2
Integrated Crop Management										
Integrated Disease Management										
Small Scale Income Generation Enterprises										
Weed Management										
Resource Conservation Technology										
Farm Machineries										
Integrated Farming System										
Seed / Plant production										

Value addition						
Drudgery Reduction						
Storage Technique						
Mushroom cultivation						
Total	1		1			2

#### 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. Achievements on technologies Assessed and Refined

#### **B.1. Technologies Assessed/Refined under various Crops**

Thematic areas	Сгор	Name of the technology assessed	No. of trials	No. of farmers	Area in ha (Per trail covering all the Technological Options)
Varietal Evaluation	Sesame	Assessment of the performance of high yielding Sesame varieties in summer irrigated condition for Jamnagar District	3	3	1.8
	Chickpea	Assessment of suitable high yielding Chickpea variety in rabi season for Jamnagar District	3	3	1.8
Integrated Pest Management	Brinjal	Management of brinjal whitefly	3	3	1.8
Integrated Disease Management	Groundnut	Management of foliar diseases in groundnut	3	3	1.8
Storage Technique	Groundnut	Assessment of PICS bag for Groundnut storage	5	5	-
TOTAL			17	17	

#### **B.2.** Technologies assessed/Refined under Livestock and Fishery

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
Evaluation of breeds				
Health Management				

Dairy Management		
Nutrition management		
Disease management		
Feed and fodder management		
Processing & Value addition		
Production and management		
Composting fish culture		
Small scale income generating enterprises		
Fish production		
Other		
Total		

# **B.3 Technologies assessed/Refined under other enterprises**

Name of Enterprises	Name of the technology assessed	No. of trials	No. of farmers
Mushroom			
Apiary			
Vermicompost			
Tailoring			
Nutrition Garden			
Nursery Management			
Production and Management			
Eentrepreneurship development			
Engegy consrvation			
storage techniques			
House hold food security			
organic farming			
mechanization			
Bee keeping			
Seed production			
post-harvest management			
other			

# B 4. Technologies assessed/Refined under Women empowerment assessment

Name of Enterprises	Name of the technology assessed	No. of trials	No. of farmers
Drudgery Reduction			
Entrepreneurship development			
Health and Nutrition			
value addition			
Kitchen gardening			
nutrition security			
other			

# C. Details of each On Farm Trial for assessment to be furnished in the following format separately as per the following details

#### OFT-1 : Home Science: (Kharif 2022-23)

#### 1) Title : Assessment of PICS bag for Groundnut storage

- 2) Problem Definition :-
  - Residual effect of insecticides used for stored godown
  - Insecticidal effect on germination
  - High moisture retention during summer days
  - Heavy attack of storage pests
  - High cost of storage
  - Heavy loss of food grains and seeds
  - Lack of regular inspection in stored products.

#### 3) Details of technologies for assessment/ refinement

Category	Source of			Technology details
	technology			
Technology	Farmer	$T_1$	Farmer	Open heaps in storage godown
option 1			practices 1	
Technology	Farmer	$T_2$	Farmers	Local practices for storage in plastic bag /closely woven
option 2			practices 2	bag
Technology	SAU (MKV-	T₃	Reco.	Storage in Triple layer hermetic "Purdue Improved Crop
option 3	Parbhani)		practices	Storage" (PICS) bags

#### 4) Source of Technology:- JAU, Junagadh Formerly it was from ICRISAT, Hyderabad

#### 5) Production system :

The Perdue Improved Crop Storage (PICS) technology, triple layer bag consists of two high density inner polyethylene plastic bags (inner liners) and a third outer sack (a woven polypropylene bag). Drying the grain adequately before storage. Fill the inner bag with groundnut pod. Gently twist the lip of the most inner liner fold it and tie, then tuck the second liner as same and finally tie the woven bag. be sure to fold and tie each bag separately. Kept it for six months and observe weight loss and insect damage. **6) Thematic area :**Post-harvest management

# 7) Raw data about the Performance of the Technology assessed / refined with performance indicators

Sr		Name of the	Data on the performance indicators of the technology assessed (weight loss, Insect (Bruchid)damage in %)							
ы. Мо	Name of the farmer	Village	-	<b>T</b> 1		T <sub>2</sub>		T <sub>3</sub>		
		Village	weight	Insect	weight	Insect	weight	Insect		
			loss	damage	loss	damage	loss	damage		
1	Labhuben Harilal Dhamsaniya	Falla	12	22.71	4	10.0	2	0.5		
2	Hasmukhbhai Lavjibhai Adroja	Falla	15.4	24.36	5	10.5	1.6	2.0		
3	Shilpaben Baldevbhai Khatrani	Latipur	12.6	22.55	7.2	12.0	1.8	0.5		
Λ	Rabadiya Rasikbhai	Pipartoda	16.4	26.36	4.6	11.1	3	3.2		
4	Girdharbhai									
5	Rabadiya Milanbhai Ranjibhai	Pipartoda	16	25.60	5.4	11.4	2.2	3.0		
		Average	14.48	24.31	5.24	11.01	2.12	1.84		

#### 8) Final recommendation for micro level situation:

Use of Perdue Improved Crop Storage (PICS) technology, triple layer bag consists of two high density inner polyethylene plastic bags (inner liners) and a third outer sack (a woven polypropylene bag) for storage of groundnut pod up to six months were highest protection against insect damage (1.84%) and lowest weight loss (2.12%) and reduce input cost as well as hazardous effect.

#### 9) Constraints identified and feedback for research:

- > Residual and germination effect of insecticides used for stored godown have been reduced
- Reduction of storage pests attack
- Reduce cost of storage

#### Heavy loss of food grains and seeds

#### 10) Process of farmers participation and their reaction:

Farmers have good response and they have support for OFT. PICS bags have very less insect damage as well as weight loss. This treatment is chemical less and hazardless.

Crop/ enterpris e	Τe	echnology Assessed / Refined	Healthy pod obtained out of 100 kg storage	Gross return Rs./100 kg	Storage cost Rs./100 kg	Loss of due to spoilage Rs./100 kg	Net Return (Profit) in Rs. / 100 kg	BC Ratio [Clo.18/( Col.16+1 7)]
1		13	14	15	16	17	18	19
Groundn ut (PICS	T <sub>1</sub>	Open heaps in storage godown	85.52	5559	20	941	4598	4.78
bag)	T <sub>2</sub>	Local practices for storage in plastic bag /closely woven bag	94.76	6159	100	341	5718	12.97
	T₃	Storage in Triple layer hermetic "Purdue Improved Crop Storage" (PICS) bags	97.88	6362	200	138	6024	17.82

#### 11) Results of On Farm Trials:

**N.B.:-** Price of groundnut pod calculated @ Rs. 65/- per kg

# OFT – 2:- Cumin (Plant Protection) [Rabi-2022-23]

# Title : Management of aphid in cumin (Rabi 2022-23)

#### **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
seasons		outbreaks and its management
Lack of soud treatment	Management	Lack of improper cultivation
Lack of seed treatment	of aphid in	practices
In judicious use of	cumin	In judicious use of nitrogenous
pesticide		fertilizer
Extra irrigation		Improper use of FYM (without
EXITA IL TIGALION		decomposition)

### 3) Details of technologies for assessment/refinement:

Category Source of technological contents of the second se	Technology details	
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Technology option 1	Farmer	T <sub>1</sub>	Farmer 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]
Technology option 2	State Agricultural University	Т <sub>2</sub>	Reco. practices	First spray of Afidopyropen 50 G/L DC [(Inscalis) Sefina] 0.04% was made at initiation of pest and second spray was given after 15 days.
Technology option 3		T <sub>3</sub>	Refined practices 1	First spray of Spray of <i>Bearuveria bassiana</i> @ 5 g/lit of water was made at initiation of pest and subsequent spray at 15 days interval.

4) Source of Technology: Junagadh Agricultural University

5) Production system : Irrigated, rabi crop and all agronomical practices adopted commonly.

6) Thematic area : IPM, Management of aphid in cumin

**7)** Raw data about the Performance of the Technology assessed / refined with performance indicators

Sr.	Name of the farmer	er Village		Data on the performance indicators of the technology assessed (aphid population (aphic index) from five randomly selected plants from each plot at 7 days after spray and Yield q/ha)					
NU		Village	T <sub>1</sub>		T <sub>2</sub>		T <sub>3</sub>		
			No. of	Yield	No. of	Yield	No. of	Yield	
			Aphid	q/ha	Aphid	q/ha	Aphid	q/ha	
1	Bhanderi Dilipbhai Hirabhai	Mandasan	36	6.50	22	8.50	24	6.88	
2	Zala Narendrasinh Batuksinh	Butavadar	34	6.75	17	9.38	21	7.75	
2	Zinzuvadiya Kanabhai	Butavadar	32	7.00	18	9.75	21	7.88	
3	Ranmalbhai								
	Average		34	6.75	19	9.21	22	7.50	

# 8) Final recommendation for micro level situation:

Application of Afidopyropen 50 G/L DC [(Inscalis) Sefina] 0.04% was made at initiation of pest and second spray was given after 15 days have been minimum aphid population and also obtained highest hield. The farmers who doing organic farming they are also advise to application Spray of *Bearuveria bassiana* @ 5 g/lit of water was made at initiation of pest and subsequent spray at 15 days interval having minimize the pest (aphid) and good yield with decrease in input cost without harzardious effect.

# 9) Constraints identified and feedback for research :

- > Time of application cannot be identified for spraying for aphid population
- > High population of sucking pests, twisting of twigs
- > Yield increases as compare to farmers' practices.
- Reduce the aphid as well as leaf curl incidence.

# **10)** Process of farmers participation and their reaction:

Farmers have good response and they have support for OFT. Recommended practices having found incidence of aphid where it is repeated use. However, refined treatment is very effective treatment for the management of aphid for organic grower and harzardless effect along with maximum yied.

# 11) Results of On Farm Trials :

Crop/ enter- prise	Farm- ing situ- ation	ProblemDiag- nosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment	Dat pa	ta on the rameter Q/ha
1	2	3	4	5	6	7		8
	l e e i		Management			No of aphid (2 twig	T <sub>1</sub>	34.00
Cumin gat	antod	gated IPM of ap	of aphid in	3	Procticos	NO OI aprilu/3 (Wig	T <sub>2</sub>	19.00
	gated		cumin		FIACLICES	and yield (q/ha)		22.00

Crop/ ente rprise	Results of assessment	Feedback from the farmer	Any refinement done	Justification for refinement
1	9	10	11	12
Cumin	Application of Afidopyropen 50 G/L DC [(Inscalis) Sefina] 0.04% was made at initiation of pest and second spray was given after 15 days have been minimum aphid population and also obtained highest hield. The farmers who doing organic farming they are also advise to application Spray of <i>Bearuveria bassiana</i> @ 5 g/lit of water was made at initiation of pest and subsequent spray at 15 days interval having minimize the pest (aphid) and good yield with decrease in input cost without hazardous effect.	Farmers have good response and they have support for OFT. Recommended practices having found incidence of aphid where it is repeated use. However, refined treatment is very effective treatment for the management of aphid for organic grower and hazardless effect along with maximum yield.	Application of <i>Bearuveria</i> <i>bassiana</i> @ 5 g/lit of water was made at initiation of pest and subsequent spray at 15 days interval.	It is necessary against outbreak of pest and heavy infestation. Also resistance developed against conventional insecticide.

Crop/ enterprise	Тео	chnology Assessed / Refined	Production kg/ha	Input Cost Rs./ha	Gross return Rs./ha (Rate Rs.155/kg)	Net Return (Profit) in Rs./ ha)	BC Ratio
1	13		14	15	16	17	18
Cumin	T1	Injudicious use of insecticides. [use of deltamethrin, flubendiamide, imidacloprid, acetameprid, Thiamethoxam, cypermethrin, lamdacyhalothrin,	675	39000	104625	65625	2.68

	carbosulfan, dimethoate after infestation of aphid repeatedly at weekly interval without follow ETL]					
T <sub>2</sub>	First spray of Afidopyropen 50 G/L DC [(Inscalis) Sefina] 0.04% was made at initiation of pest and second spray was given after 15 days.	921	33000	142755	109755	4.33
T <sub>3</sub>	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.	750	27500	116250	88750	4.23

#### OFT-3 Brinjal (Assessment) (Rabi 2022-23)

# Title : Management of brinjal whitefly (Rabi 2022-23) Objective:

- ✤ To manage the sucking pest infestation in brinjal
- ✤ To reduce cost of cultivation along with organic inputs
- To minimize residual toxicity of chemicals

# Problem definition: attack of leaf sucking pest is increase

- Heavy infestation of leaf sucking pest 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 of knowledge about pest
		outbreaks and its management
No adoption of recommended	Management of	In judicious use of chemical
practices	brinjal whitefly	pesticide
Farmer follows instruction		Heavy incidence of pest and
given by the local retailer		disease attack
ofpesticide		

#### 3) Details of technologies for assessment/refinement:

Category	Source of technology	Technology details				
Technology option 1	Farmer	T <sub>1</sub>	Farmer practices	Injudicious use of insecticides. [use of acetameprid, Thiamethoxam, cypermethrin, lamdacyhalothrin, carbosulfan, Spiromesifen, Profenophos, clothianidin, acephate + monocrotophos, after infestation of whitefly repeatedly at weekly interval without follow ETL]		
Technology option 2	State Agricultural University	Т <sub>2</sub>	Reco. practices	Three sprays of chlorantraniliprole 18.5 SC @ 0.002 % (1.08 ml/10 litre water) at 15 days interval starting from the pest infestation		

Technology option 3	т	Refined practices	Spray of <i>Beauveria bassiana</i> 1.15 WP (Min. 2 x 106 cfu/g) 0.007 % @ 60 g/10 litre of water, first spray at pest initiation and subsequent four spray should be given at 10 days interval after first spray.
Technology option 4	Т	Refined practices	Spray of Difenthuron 50% WP @ 5 g/lit of water at 15 days interval at pest initiation.

4) Source of Technology: Junagadh Agricultural University

5) Production system : Irrigated, rabi crop and all agronomical practices adopted commonly.

6) Thematic area : IPM, Management of brinjal whitefly

#### 7) Raw data about the Performance of the Technology assessed / refined with performance indicators

			Data on the performance indicators of the technology assessed (whitefly population from five randomly selected plants from each plot at 7 days								
Sr.	Name of the	Name of the	after spra	ay and Yie	eld q/ha)						
No	farmer	Village	Т	1	Т	2	Т	3	Т	4	
			No. of	Yield	No. of	Yield	No. of	Yield	No. of	Yield	
			whitefly	q/ha	whitefly	q/ha	whitefly	q/ha	whitefly	q/ha	
	Bumatariya	Dhrol	52	195.00	22	295.00	36	275.00	21	300.00	
1	Chhaganbhai										
	Mavjibhai										
	Viramgama	Butavadar	46	205.00	27	290.00	27	240.00	25	275.00	
2	Ghelabhai										
	Bachubhai										
	Chandravadiya	Butavadar	40	200.00	20	300.00	30	250.00	26	260.00	
3	Nathubhai										
	Arjanbhai										
	Average		46	200.00	23	295.00	31	255.00	24	278.33	

#### 8) Final recommendation for micro level situation:

Three sprays of chlorantraniliprole 18.5 SC @ 0.002 % (1.08 ml/10 litre water) at 15 days interval starting from the pest infestation have been minimum whitefly population and highest yield. The PHI for chlorantraniliprole 18.5 SC, 0.002 % is one day. As per the cost benefit ratio and comparision of pest reduction and yield, application of Beauveria bassiana 1.15 WP (Min. 2 x 106 cfu/g) 0.007 % @ 60 g/10 litre of water, first spray at pest initiation and subsequent four spray should be given at 10 days interval after first spray having minimize the pest (whitefly) and good yield with decrease in input cost without harzardious effect.

#### 9) Constraints identified and feedback for research :

- Time of application cannot be identified for spraying for whitefly population
- High population of sucking pests, twisting of twigs
- Yield increase as compare to farmers' practices.
- Reduce the chemical as well as leaf curl incidence.
- Reduce cost and chemicals in the refinement treatment.

#### 10) Process of farmers participation and their reaction:

Farmers have good response and they have support for OFT. Recommended practices having found incidence of whitefly where it is repeated use. However, refined treatment is very effective treatment for the d. m

nanager	ment of	brinjal white	etly for organic grow	ver and h	harzardless eff	fect along with maximum	ı yie	ed.
<u>1) Resu</u>	Its of O	n Farm Trial	s :	-				
Crop/ enter- prise	Farm- ing situ- ation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment	Da pa	ata on the arameter Q/ha
1	2	3	4	5	6	7		8
							T <sub>1</sub>	200
Prinial	Irri-		Management of	2	IPM	No of whitefly/leaf and	T <sub>2</sub>	295
ыша	gated	IPIVI	brinjal whitefly	5	Practices	yield (q/ha)	T₃	255
							T <sub>4</sub>	278.33

# 1

Crop/ ente rprise	Results of assessment	Feedback from the farmer	Any refinement done	Justification for refinement
1	9	10	11	12
		Farmers have good	application of	It is necessary
	Three sprays of chlorantraniliprole	response and they	Beauveria	against
	18.5 SC @ 0.002 % (1.08 ml/10 litre water) at	have support for	bassiana 1.15	outbreak of
	15 days interval starting from the pest	OFT. Recommended	WP (Min. 2 x	pest and heavy
	infestation have been minimum whitefly	practices having	106 cfu/g)	infestation.
	population and highest yield. The PHI for	found incidence of	0.007 % @ 60	Also resistance
	chlorantraniliprole 18.5 SC, 0.002 % is one	whitefly where it is	g/10 litre of	developed
	day. As per the cost benefit ratio and	repeated use.	water, first	against
Brinial	comparision of pest reduction and yield,	However, refined	spray at pest	conventional
Drinjar	application of Beauveria bassiana 1.15 WP	treatment is very	initiation and	insecticide.
	(Min. 2 x 106 cfu/g) 0.007 % @ 60 g/10 litre	effective treatment	subsequent	
	of water, first spray at pest initiation and	for the	four spray	
	subsequent four spray should be given at 10	management of	should be	
	days interval after first spray having	whitefly for organic	given at 10	
	minimize the pest (whitefly) and good yield	grower and	days interval	
	with decrease in input cost without	harzardless effect	after first	
	harzardious effect.	along with	spray	
		maximum yied.		

Crop/ enterprise	Тес	hnology Assessed / Refined	Production kg/ha	Input Cost Rs./ha	Gross return Rs./ha (Rate 80.00/kg	Net Return (Profit) in Rs. / ha	BC Ratio
1	13		14	15	16	17	18
Brinjal	T <sub>1</sub>	Injudicious use of insecticides. [use of acetameprid, Thiamethoxam, cypermethrin, lamdacyhalothrin, carbosulfan, Spiromesifen, Profenophos, clothianidin, acephate + monocrotophos, after infestation of whitefly repeatedly at weekly interval without follow ETL]	20000	135000	320000	185000	2.37
	T <sub>2</sub>	Threespraysofchlorantraniliprole18.5SC,0.002%,1.08ml/10waterat15daysstartingfromthepestinfestationarerecommendedunderSouthSaurashtraAgro-climaticZone.ThePHIfor	29500	120000	472000	352000	3.93

	chlorantraniliprole 18.5 SC, 0.002 % is one day.					
T <sub>3</sub>	Spray of <i>Beauveria bassiana</i> 1.15 WP (Min. 2 x 106 cfu/g) 0.007 % (60 g/10 litre of water), first spray at pest initiation and subsequent four spray should be given at 10 days interval after first spray.	25500	100000	408000	308000	4.08
T <sub>4</sub>	Spray of Difenthuron 50% WP @ 5 g/lit of water at 15 days interval at pest initiation.	27833	115000	445328	330328	3.87

#### OFT-4 : Sesame : (Summer-2022-23)

# 1) Title:-Assessment of the performance of high yielding Sesame varieties in *summer* irrigated condition for Jamnagar District

#### 2) Problem definition:

Sesame is cultivated predominantly during *summer* season in Jamnagar district. The productivity of Sesame, in Jamnagar is low due to low yield in existing variety, Heavy incidence of pest and disease attack. Hence, an OFT was carried out with the objectives to find out suitable high yielding sesame variety for *summer* season for Jamnagar district to enhance the sesame productivity. **3) Details of technologies selected for assessment/ refinement** 

Category Source of technology			Technology detail				
Technology option 1	Farmer	$T_1$	G. Til. 2 (Farmer's practice)				
Technology option 2	JAU	T <sub>2</sub>	G. Til. 3				
Technology option 2	JAU	T <sub>3</sub>	G. Til. 5				

4) Source of Technology: - Junagadh Agricultural University

#### 5) Production system:

Crop grown as Integrated Crop Management system and all other agronomical practices adopted commonly.6) Thematic area: To enhance the sesame productivity.

#### 7) Performance of the Technology assessed with performance indicators:

Sr.	Name of the farmer	Name of the Village	Data on the performance indicators of the					of the
No			tech	nology	assesse	d (from	each pl	ot]
			Plant Height (cm)			Capsu	olant	
			T <sub>1</sub>	T <sub>2</sub>	T <sub>3</sub>	$T_1$	T <sub>2</sub>	T <sub>3</sub>
1	Bera Khimabhai	Udepur, Jamjodhpur	54	62	69	49	53	60
	Parbatonal							
2	Savaliya Babubhai	Nana Vadala, Kalavad	52	60	66	45	53	58
	Nagajibhai							
3	Aandani Bavajibhai	Pasaya Beraja,	53	67	66	53	59	62
	Kadavabhai	Jamnagar						
	Ave	53.00	63.00	67.00	49.00	55.00	60.00	

Sr. No	Data on	the perfor	mance in	dicators o	f the tech	nology ass	sessed (fro	om each p	lot)
	1000	seed weig	;ht (g)	Μ	laturity da	ys	Yield (Kg/ha)		
	<b>T</b> 1	T <sub>2</sub>	T₃	<b>T</b> 1	T <sub>2</sub>	T₃	T <sub>1</sub>	T <sub>2</sub>	T <sub>3</sub>

1	3.10	3.30	3.42	87	83	91	912	1015	1135
2	3.50	3.68	3.70	82	82	87	890	967	1018
3	3.15	3.30	3.70	89	84	89	902	990	1020
Average	3.25	3.43	3.61	86	83	89	901	991	1058

# 8) Final recommendation for micro level situation:

The results of the study revealed that the sowing of Sesame G.Til.5 produced higher yield (1058 kg/ha), Plant height (67 cm), Capsule per plant (60), 1000 seed weight (3.61 g), net return (Rs. 70,200 /ha) and BCR (2.97) than sesame variety G. Til. 2, G. Til. 3.

# 9) Constraints identified and feedback for research:

- Lack of knowledge about new high yielding variety
- Non availability of seed of new high yielding variety

## 10) Process of farmer's participation and their reaction: Satisfactory, Less incidence of collar rot

## 11) Results of On Farm Trials:

Crop/ enterprise	Farming situation	Problem Diag nosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment	L L	ata on the barameter Q/ha
1	2	3	4	5	6	7		8
Sesame	Irri-gated	Low yield in existing variety	Assessment of the performance of high yielding Sesame varieties in summer irrigated condition for Jamnagar District t	3	suitable high yielding Sesame variety for <i>summer</i> season	Yield (Kg/ha), Plant Height (cm), Capsule per plant, 1000 seed weight (g), Maturity days, Economics	T <sub>1</sub> T <sub>2</sub> T <sub>3</sub>	yield (q/ha) 9.01 9.91 10.58

Crop/ enterprise	Results of assessment	Feedback from the farmer	Any refinement done	Justification for refinement
1	9	10	11	12
Sesame	Sowing of sesame G.Til.5 produced higher yield (10.58 q/ha), Plant height (67 cm), Capsule per plant (60), 1000 seed weight (3.61 g), net return (Rs. 70200/ha) and BCR (2.97) than sesame variety G. Til. 2, G. Til. 3.	Farmers have good response and they have support for OFT. G.Til.5 produced higher yield	_	_

Crop/ enterpris	Те	chnology Assessed / Refined	Production kg/ha	Gross return	Cost of cultivatio	Net Return (Profit) in	BC Ratio
е			Yield (Kg/ha)	Rs./ha	n Rs./ha	Rs. / ha	
1	13		14	15	16	17	18
Sesame	T1	G. Til. 2 (Farmer's practice)	901	90100	35600	54500	2.53
	$T_2$	G. Til. 3	991	99100	35600	63500	2.78
	$T_3$	G. Til. 5	1058	105800	35600	70200	2.97

Selling Rate: Sesame: 100 Rs per kg,

#### Pooled Result of On Farm Trials; Yield and economics (2019-20 to 2022-23)

Year of	T1 (Fa	rmer's practi	ice)		T2 (GT-3)		T3 (GT-5)			
assessmen	Yield Net Return BC		BC	Yield	Net Return BC		Yield Net Return		BC	
t	(kg/ha)	(Rs/ha)	ratio	(kg/ha)	(Rs/ha)	ratio	(kg/ha)	(Rs/ha)	ratio	
2019-20	907	37990	2.49	988	43683	2.71	1100	51500	3.02	
2020-21	911	38270	2.50	995	44150	2.73	1105	51850	3.03	
2021-22	Crop fail	Crop failure due to low germination								
2022-23	901 54500 2.53			991	63500	2.78	1058	70200	2.97	

The results of the study revealed that the sowing of summer sesame GT-5 produced higher yield, net return and BCR than sesame variety GT-3 and farmer's practices.

#### OFT-5 :- Groundnut (Kharif 2023-24)

## Title: Management of foliar diseases in groundnut

#### **Objective:**

- ✓ To minimize the foliar diseases (leaf spot and rust) occurrence in groundnut.
- ✓ To reduce injudicious use of chemical fungicide.
- ✓ To minimize residual effect of chemical.

#### Problem definition:

- 1. Heavy incidence of rust in later stage
- 2. Heavy incidence of early and late leaf spot
- 3. Lack of knowledge about scheduled spray of fungicides
- 4. Problem in identification and diseases initiation
- 5. Injudicious use of fertilizer
- 6. Excess irrigation
- 7. Multi season cropping system
- 8. Mono cropping system
- 9. Overlapping of the crop's seasons
- 10. Treatment of diseases after savior attack

#### 3) Details of technologies for assessment/refinement:

Category	Source of technology	Tech	nnology deta	ils
Technology option 1	Farmer	T <sub>1</sub>	Farmer practices	Injudicious use of fungicides. [use of hexaconazole, carbendazim, floxistrobin, Metalaxyl 8 + Mancozeb 64, Kitazin 48 EC, Kresoxim-Methyl 44.3 SC, Azoxystrobin 11 + Tebuconazole 18.3 SC, Chlorothalonil 75 WP, Cymoxanil 8 + Mancozeb 64 WP, Difenconazole 25 EC, Tebuconazole + Trifloxystrobin 75 WG, Tebuconazole 25 EC] after severe attack of diseases.
Technology option 2	State Agricultural University	T <sub>2</sub>	Reco. practices	Foliar spray of hexaconazole 5% SC (10ml/10 lit water) at 40 DAS + Foliar Spray of Talcum powder based <i>Pseudomonas fluorescens</i> 0.5% (2x10 <sup>6</sup> cfu/g) @ 100 gm/10 litre water at 60 and 80 DAS.
Technology option 3		T <sub>3</sub>	Refined practices	Foliar Spray of Talcum powder based <i>Pseudomonas fluorescens</i> 0.5% (2x10 <sup>6</sup> cfu/g) @ 100 gm/10 litre water at 40, 60 and 80 DAS.

**4) Source of Technology:** Department of Plant Pathology, College of Agriculture, Junagadh Agricultural University, Junagadh

**5) Production system :** Irrigated/rainfed, *kharif* crop and all agronomical practices adopted commonly.

6) Thematic area : IDM, Management of foliar diseases

7) Raw data about the Performance of the Technology assessed / refined with performance indicators

Sr. N o	Name of the farmer	Name of the Village	Dat [Ave rane geri	a on erage doml mina (No	the of y sel tion	e perf Reco lected and a leaf ir	forma rded I plan t harv nfeste	ince early ts fro vest s d pe	indic y and om ea stage] r plan	ato lai ach it b	rs of e lea plot a y disea	the t f spot it 30, ases) a	tec t a 60 and	hnol nd r and d (Yie	ogy ust 90 eld	y asse from days q/ha)	essed n five after
					<b>T</b> 1					T <sub>2</sub>	2				٦	Гз	
			Е	L	R	ΡΥ	НΥ	Ε	L	R	ΡΥ	НҮ	Ε	L	R	ΡΥ	ΗΥ
1	Sankhavara Babu Premjibhai	Latipur Ta. Dhrol	3	3	2	27.5	18.3 3	2	3	1	32.5	21.6 7	2	4	2	31.8	21.2
2	Bavariya Keval Rameshbhai	Sonvadiya Ta. Jam Jodhpur	5	6	2	29.5	19.6 7	4	3	3	36.2 5	24.1 7	4	4	3	34.6	23.0 7
3	Chavada Naga Dadabhai	Samor Ta. Jam Khambhalia	4	5	6	31	20.6 7	2	2	2	37.5	25	3	2	1	35.5	23.6 7
	Average		4	4.6 7	3.3 3	29.3 3	19.5 6	2.6 7	2.67	2	35.4 2	23.6 1	3	3.3 3	2	33.9 7	22.6 5

**N.B.:-** (E=Early leaf spot; L=Late leaf spot; R=Rust, PY=pod Yield, HY=Halm Yield)Recorded observations of early and late leafspot and rust from five randomly selected pants from each plot at 30, 60 and 90 days after germination and at harvest stage.

# 8) Final recommendation for micro level situation:

Foliar spray of hexaconazole 5% SC (10ml/10 lit water) at 40 DAS + Foliar Spray of Talcum powder based *Pseudomonas fluorescens* 0.5% ( $2x10^{6}$  cfu/g) @ 100 gm/10 litre water at 60 and 80 DAS having minimum diseases incidence as well as highest highest yield. The farmers who doing organic farming they are also advise to application foliar spray of *Pseudomonas fluorescens* 0.5% ( $2x10^{6}$  cfu/g) @ 100 gm/10 litre water at 40, 60 and 80 DAS having also similar result and good yield with decrease in input cost without harzardious effect.

# 9) Constraints identified and feedback for research :

- > Farmers are undecided for time of application of fungicides
- > Diseases start in early stage, symptoms produce later henc difficulty in measures

# 10) Process of farmers participation and their reaction:

Farmers have good response and they have support for OFT. Recommended practices having found lower diseases occurrence. However, refined treatment is very effective treatment for the management of foliar diseases for organic grower and harzardless effect along with maximum yied. **11) Results of On Farm Trials :** 

	Technology	Yield (kg/ha) Gross Return				Cost of	Net	D.C	
Crop/ Enter-prise	Assessed / Refined	Pod	Halm	Pod	Halm	Total	Culti- vation	Return (Profit) in (Rs./ha)	B:C Ratio
1	13	14	15	16	17	18	19	20	21
	T <sub>1</sub>	2933	1956	190645	9780	200425	85000	115425	1.36
Ground-nut	T <sub>2</sub>	3542	2361	230230	11805	242035	78500	163535	2.08
	T <sub>3</sub>	3397	2265	220805	11325	232130	73600	158530	2.15

#### OFT-6 :Home Science: (Kharif :2023-24)

#### 1) Title : Assessment of PICS bag for Groundnut storage

#### 2) 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.

## 3) Details of technologies for assessment/ refinement

	/						
Category	Source of		Technology details				
	technology						
Technology	Farmer	$T_1$	Farmer	Open heaps in storage godown			
option 1			practices 1				
Technology	Farmer	$T_2$	Farmers	Local practices for storage in plastic bag /closely			
option 2			practices 2	woven bag			
Technology	SAU (MKV-	$T_3$	Reco.	Storage in Triple layer hermetic "Purdue Improved			
option 3	Parbhani)		practices	Crop Storage"(PICS) bags			
	•						

#### 11) Results of On Farm Trials : Awaited

#### OFT-7 Brinjal (Assessment) (Rabi 2023-24)

## Title : Management of Brinjal whitefly

**Objective:** To manage the leaf sucking pest infestation in sesame

Problem definition: attack of leaf sucking pest is increase

- Heavy infestation of leaf sucking pest 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	Heavy incidence of pest and disease
practices	of brinjal	attack
Earmer follows instruction given by	whitefly	In judicious use of chemical pesticide
the local pesticides retailer		Lack of knowledge about pest outbreaks
		and its management

#### 3) Details of technologies for assessment/refinement:

Category	Source of technology	Tech	nology details	
Technolo gy option 1	Farmer	T <sub>1</sub>	Farmer practices	Injudicious use of insecticides. [use of acetameprid, Thiamethoxam, cypermethrin, lamdacyhalothrin, carbosulfan, Spiromesifen, Profenophos, clothianidin, acephate + monocrotophos, after infestation of whitefly repeatedly at weekly interval without follow ETL]

Technolo gy option 2	State Agricultur al University	T <sub>2</sub>	Reco. practices	Three sprays of chlorantraniliprole 18.5 SC, 0.002 %, 1.08 ml/10 litre water at 15 days interval starting from the pest infestation are recommended under South Saurashtra Agro-climatic Zone. The PHI for chlorantraniliprole 18.5 SC, 0.002 % is one day.
Technolo gy option 3		T <sub>3</sub>	Refined practices 1	Spray of <i>Beauveria bassiana</i> 1.15 WP (Min. 2 x 106 cfu/g) 0.007 % (60 g/10 litre of water), first spray at pest initiation and subsequent four spray should be given at 10 days interval after first spray.
Technolo gy option 4		T <sub>4</sub>	Refined practices 2	Spray of Difenthuron 50% WP @ 5 g/lit of water at 15 days interval at pest initiation.

11) Results of On Farm Trials :	<b>RESULTS AWAITED</b>
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## OFT 7 Chickpea (Varital) (Rabi 2023-24)

# 1. Title: Assessment of suitable high yielding Chickpea Variety in Rabi season for Jamnagar District

## 2) Problem definition:

Chickpea crop is cultivated predominantly in Jamnagar district. The productivity of Chickpea, in Jamnagar is low due to low yield in existing variety, suffering from disease like wilt and stunt and high cost of production. Hence, an OFT was carried out with the objectives to find out suitable high yielding Chickpea variety for Rabi season

## 3) Details of technologies selected for assessment/ refinement

Category	Source of technology	Technology detail			
Technology option 1	Farmer	T <sub>1</sub>	GJG-03 (Farmer Practices)		
Technology option 2	JAU	T <sub>2</sub>	GG-05		
Technology option 3	JAU	T <sub>3</sub>	GJG-06		

4) Source of Technology: - Junagadh Agricultural University

**5) Production system:** Crop grown as Integrated Crop Management system and all other agronomical practices adopted commonly.

#### 6) Thematic area: Varietal evaluation

#### 7) Performance of the Technology assessed with performance indicators:

Sr.	Name of the farmer	Name of the Village	Data on the performance indicators of the technology assessed				
INO			T <sub>1</sub>	T <sub>2</sub>	T₃		
1	Kapuriya Damjibhai	Vagadiya,	<u>i</u> i				
T	Karshanbhai	Jamnagar					
2	Sanghani Lalithhai Nathahhai	Sevak Bhatiya,	Desult awated				
2		Lalpur		Result awateu			
2	Amreliya Subhashbhai	Konza, Jamnagar					
3	Narshibhai						

#### **Observation:**

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

#### 11) Results of On Farm Trials : Awaited

# **3.3 FRONTLINE DEMONSTRATION**

#### A. Follow-up for results of FLDs implemented during previous years

List of technologies demonstrated during previous year and popularized during 2023 and recommended for large scale adoption in the district

					Details of	Horizo	ntal spr	ead of
<u>Sr</u>		Thomatic		Season	popularization	te	chnolog	5y
ы. Мо	Crop	aroa	Technology Demonstrated	and year	methods	No. of	No. of	Area in
NO.		aica		anu year	suggested to the	villages	farmer	ha.
					Extension system			
	Oilseeds							
1	Sesame	ICM	Guj. Til. 5 seed,	Summer	Field days, Field	180	1840	12800
	(NFSM)		Trichoderma, Beauveria,	-2021-22	visit, Radio talk,			
			Azotobacter, PSB		On/Off Campus			
2	Groundnut	ICM	Improved var. Seed	Kharif	Training and TV	215	1450	12500
	(NFSM)		(GJG-22),	2022-23	Program,			
			Metarhizium anisopliae,		Exhibition and			
			Trichoderma,		demonstration			
			PSB, Rhizobium					
3	Castor	Varietal	Variaty CCH 0	Kharif-		28	280	375
	(ATIC)			2022-23				
	Pulses							
4	Chickpea	IPM,	Varietal (GG-5),	Rabi-		38	390	720
	(NFSM)	Varietal	Trichoderma, PSB,	2022-23				
			Rhizobium,					
			Beauveriabassiana					
	Cereals							
5	Pearl Millet	Varietal	Pearl millet Seed (GHB-	Summer-		28	70	152
			1231)	2021-22				
6	Sorghum	Varietal	Varietal (GNJ-1)	Kharif-		6	8	12
				2022-23				
7	Wheat	Varietal	Variety –GW 451	Rabi-		15	42	85
				2022-23				
	Spices Crops							
8	Ajwain	IPM/IDM	Beauveria, Trichoderma,	Kharit-		10	115	260
_			Azotobactor, PSB	2022-23				
9	Cumin	ICM	Beauveria, Trichoderma,	Rabi-		120	1710	2350
1.0	(ATIC)		Azotobactor, PSB,	2022-23				1500
10	Corlander	ICM	Beauveria, Trichoderma,	Rabi-		38	780	1580
	(ATIC)		Azotobactor, PSB,	2022-23				
11	Others crops		A - a dive ab tip	Khowif			690	1250
TT	Cotton	IPIVI	Azadirachtin,	Kharif		65	680	1250
			Protenopnos.,	2022-23				
			MDP, HNPV, Beauveria					
12	Kitabaa	Nutrition	Dassiana	Kharif		75	620	250
12	Kilchen	Nutrition	vegetable seed, Beauveria			/5	620	250
	Garuening	di Socuritu		2022-23				
12	Cattan	Drudgor	Cotton nicking Anras	Kharif		17	E 0	100
13		reduction	Cotton picking Apron	2022		1/	50	190
1 /	Solar Cooker	Solar	Solar caskor	2022	4	10	25	E 0
14	Sular COOKEr	Solar	Solar Cooker	2022-23		19	35	50
		energy						

B. Details of FLDs implemented during 2023 [Kharif 2023, Rabi 2022-23, Summer 2023) (Information is to be furnished in the following three tables for each category i.e. cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.)

Sr.	Crop	Thematic	Technology	Season	Area	a (ha)	No. of farmers/			
No		area	Demonstrated	and year			demonstration			
•					Propo sed	Actual	SC/ST	Others	Total	
			Oilseeds							
			Improved Var.(G. Til-							
1	Sesame	ICM	5), Beauveria bassiana, Trichoderma, PSB, Azotobactor	Summer- 2022-23	20	20	0	50	50	
2	Groundnut (NFSM)	ICM	Improved var. Seed (GJG-32), Metarhizium anisopliae, Trichoderma, PSB, Rhizobium, Beauveria	Kharif 2023-24	20	20	3	47	50	
3	Castor	Varietal	Variety GCH-9	Kharif- 2023-24	8	8	0	20	20	
			Cereals							
4	Pearl millet	Varietal	Varietal (GHB-1129)	Summer- 2022-23	4	4	0	10	10	
5	Wheat	Varietal	Varietal GW-451	Rabi-2023- 24	4	4	0	10	10	
			Spices Crops							
6	Ajwain	IPM/IDM	Beauveria, Trichoderma, Azotobactor, PSB, Mix micro nutrient	Kharif- 2023-24	4	4	0	10	10	
7	Cumin	IPM/IDM/ INM	Beauveria, Trichoderma, Azotobactor, PSB	Rabi 2023-24	8	8	0	20	20	
8	Coriander	IPM/IDM/ INM	Beauveria, Trichoderma, Azotobactor, PSB	Rabi 2023-24	8	8	0	20	20	
			Others crops							
9	Cotton	IPM	Beauveria, S-NPV, Azadirachtin, Lemda cyhelothrin	Kharif 2023-24	10	10	0	25	25	
10	Brinjal	Varital	GJLB-5	Kharif 2023-24	2	2	0	5	5	
			Other enterprises							
11	Kitchen Gardening	Nutritiona I Security	Vegetable seed, Beauveria	Kharif 2023-24	2	2	0	50	50	
12	Cotton	Drudgery reduction	Cotton picking Apron	Kharif 2023-24	2	2	0	5	5	

3.2.1 Details of FLDs implemented during 2023-24

13 Solar	Solar	Solar cooker	2023-24	-	-	0	5	5
Cooker	energy							

# FLD conducted during 2022-23 but result was awaited so this result was present here

Sr.	Crop Themat Technology Demonstrated				Area	(ha)	No. of farmers/ demonstration			
	Сюр	ic area	Technology Demonstrated	and year	Prop-	Actu	SC/S	Other	Tot	
			Oilseeds		oscu	aı	- 1	5	dI	
1	Castor (ATIC)	Varietal	Variety GCH-9	Kharif- 2022-23	8	8	0	20	20	
			Pulses							
2	Chickpea	ICM	Varietal (GJG-5), Trichoderma, PSB, Rhizobium, Beauveria bassiana	Rabi- 2022-23	20	20	0	50	50	
			Cereals							
3	Wheat	Varietal	Varietal GW-451	Rabi- 2022-23	4	4	0	10	10	
			Spices Crops							
4	Cumin	IPM/ID M/INM	Beauveria, Trichoderma, Azotobactor, PSB	Rabi- 2022-23	8	8	0	20	20	
5	Coriander	IPM/ID M/INM	Beauveria, Trichoderma, Azotobactor, PSB	Rabi- 2022-23	8	8	0	20	20	
			Others crops							
6	Cotton	ICM	Azadirachtin, Profenophos, Beauveria bassiana, HNPV, MDP	Kharif- 2022-23	10	10	0	25	25	

# Details of farming situation

			Farming		Status of soil							
Sr. No.	Сгор	Season and year	Situation (Irrigated / rainfed)	Soil Typ e	Ν	Ρ	к	Previous crop	Sowing date	Harvest date	Seasona l rainfall (mm)	No. of rainy days
	Oilseeds											
1	Sesame	Summe r-2022- 23	Irrigated	MB	L	М	Η	Cotton, Chickpe a, Wheat	1 to 15Feb.	1 to 15 May	652	35
2	Groundnut (NFSM)	Kharif 2023- 24	Rainfed	MB	L	М	Н	Cotton, Chickpe a, Wheat	15 to 25 June	1 Oct. to 15 Oct.	1080	31
3	Castor (ATIC)	Kharif- 2023-24	Irrigated	MB	L	Μ	Η	Cotton, wheat, g'nut,	7 to 23 August	Jan to March	1080	31
	Cereals											
4	Pearl Millet	Summer 2022-23	Irrigated	MB	L	М	Η	Cotton, wheat, g'nut,	1 to 15Feb.	1 to 15 May	652	35

r	1	1	1			-				r		
5	Wheat	Rabi-	Irrigated	MB	L	Μ	Н	G'nut,	10-20	15-30	1080	31
		2023-24						Sesame	Nov.	Mar.		
	Spice											
6	Ajwain	Kharif-	Irrigated	MB	L	Μ	Н	G'nut,	1-15	1-15	1080	31
		2023-24	C C					Sesame	August	Mar.		-
7	Cumin	Rabi-	Irrigated	MB	L	Μ	Н	G'nut,	10-20	15-30	1080	31
		2023-24	_					Sesame	Nov.	Mar.		
8	Coriander	Rabi-	Irrigated	MB	L	Μ	Н	G'nut,	10-20	15-30	1080	31
		2023-24	_					Sesame	Nov.	Mar.		
	Other											
10	Cotton	Kharif	Irrigated	MB	L	М	Н	Cotton,	15 to	1 Jan to	1080	31
		2023-24						Wheat	25	15 Jan		
									June			
11	Brinjal	Rabi-	Irrigated	MB	L	Μ	Н	Wheat	15 July	1 Nov	1080	31
		2023-24						Chickpe	to 15	to 15		
								а	Aug.	Feb		
12	Kitchen	Kharif,	Irrigated	MB	L	Μ	Н	Vegetabl	May-	Throug	1080	31
	gardenig	rabi						es	June,	ht		
		2023-24							Octobe	season		
									r			
13	Cotton	Kharif	Irrigated	MB	L	Μ	Н	Cotton,	1 to 4	15 Jan	1080	31
	picking apron	2023-24						Wheat	August	to		
										25Feb.		
14	Solar Cooker	2022-23	-	-	-	-	-	-	-	-	-	-

# Technical Feedback on the demonstrated technologies

SI.	Crop	Technology	feedback	
No.	Стор	Demo.		
	Oilseeds			
1	Sesame	Improved	Seeds are white and bold	
	(NFSM)	Var.(G. Til-5),	Resistant to Alternaria & Cercospora leaf spots, Phytopthora	
		Beauveria	and Powdery mildew diseases	
		bassiana,	Resistant to leaf webber, gallfly, mite, jassid and other pests	
		Trichoderma,	Late maturity period (91 Days)	
		PSB,	Very effective products for low cost management of pests &	
		Azotobactor	diseases	
2	Groundnut	Improved	Effective control White grub with Metariazhum	
	(NFSM)	Var.(GJG	Effective control of Sclerotium with Trichoderma	
		32),	Also reduce the damage of pod borer	
		Metarhizium,	Easy to apply	
		Trichoderma,	Damage of jasside and thrips is comparatively less	
		PSB,	Late maturity group (118 day) variety	
		Rhizobium,	Comparatively less tikka, rust and stem rot	
		Beauveria	High yield 9.95% as compare to check GJGJ-22	
3	Castor		GCH-9 is high yielding under irrigation condition	
	(ATIC)		Medium duration	
		Variety GCH-9	Profuse branching habit with medium plant stature	
			Resistant to Fusarium wilt and Macrophomina root rot	
			Thrips, leaf hopper and whitefly infestation is low	
	Pluses			
4	Chickpea	Seed GG-5,	$\triangleright$	GJG-5 high vielding variety
----	--------------	---------------	------------------	--
	(NFSM)	Beauveria.	$\triangleright$	GG-5 is resistance to virus and wilt
		Trichoderma	$\triangleright$	More no. of branches per plant
		Rhizohium	$\triangleright$	Bio pesticide and bio fertilizer are very effective and Easy to use
		Azotobactor	$\triangleright$	Easley available and eco friendly
			$\triangleright$	It also reduce use of chemical pesticide/fertilizer in the era of
		F3D		organic farming
	Cereals			
5	Pearl Millet	Pearl millet	$\triangleright$	Higher yield of grain and fodder
		Seed (GHB-	$\triangleright$	Quality of fodder is good and medium height
		1129)		Heat tolerance, drought resistant and medium maturity variety
				Sweet taste of rotla
				Rich in Fe (<70 ppm) and Zn (<40 ppm) content
6	Wheat	Varietal		More number of tillers having require less seed rate
		GW-463		Higher yielding variety
				Good for chapatti making
				Attractive grain colour with lustrous.
	Spices crop			
/	Ajwain	Beauveria,		Use of Azotobacter and PSB had reduced the quantity of chemical
		Trichoderma,	~	rertilizers
		Azotobactor,		Beauveria helped in control of thips, aprild and other pests
		PSB		Cost of aultivation was reduced
				The products were easy to use
Q	Cumin	Reguveria		Lise of Azotobacter and PSB had reduced the quantity of chemical
0	Cumm	Trichodorma	1	fortilizers
		Areteksetes		Beauveria beined in control of thrins and also other nests
		Azotobactor,		Due to Trichoderma the incidence of wilt was minimized
		PSB,		Cost of cultivation was reduced
				The products were easy to use
9	Coriander	Beauveria.	>	Use of <i>Azotobacter</i> and PSB had reduced the quantity of chemical
-		Trichoderma		fertilizers
		Azotobactor	$\triangleright$	Beauveria helped in control of thrips and also other pests
			$\triangleright$	Due to Trichoderma the incidence of wilt was minimized
		130,	$\triangleright$	Cost of cultivation was reduced
			$\triangleright$	The products were easy to use
	Others			
10	Cotton	Azadirachtin,	$\triangleright$	Advance management for pest control is benefitted for less
		Profenophos.,		damage in plants for higher yield
		MDP,HNPV,	$\triangleright$	MDP Technology is very effectively but sum what laboring also.
		Beauveria		Beauveria is very effective against sucking and chewing pest
		bassiana		Low cost chemical control for longer time
11	Solar energy	Solar Cooker	$\checkmark$	Light weight & Easy to mobile
			$\triangleright$	Use less fuel
				Reduce fuel collection time
				Reduce cooking time
				Completely smoke less
				Conserve trees
				Allow more dung to be used as fertilizer instead of fuel
			>	Provide Work for local chulha makers
12	Drudgery	Cotton		Useful for manual cotton picking and also vegetable harvesting
	reduction	picking		Use of apron makes the women comfortable while picking cotton
		Apron		Prevents scratching of the skin

13	Kitchen	Vegetable	$\triangleright$	Fresh vegetable available at doorstep and at a time with minimum
	Gardening	seed		cost
			$\triangleright$	Regulatory daily nutritious diet.
			$\triangleright$	They produce organic vegetables because farm women are not
				applying any pesticides or agrochemicals in their backyard.
			$\triangleright$	Utilized maximum backyard space and waste water.
			$\triangleright$	Income generated by selling extra vegetables grown in kitchen
				garden.

## Farmers' reactions on specific technologies

SI. No.	Сгор	Technology Demo.	feedback
	Oilseeds		
1	Sesame-	Improved Var.(G. Til-5),	Seeds are white and bold which looks better
	Summer	Beauveria bassiana,	Comparatively resistant in pest and diseases variety
	(NFSM)	Trichoderma, PSB,	<ul> <li>Bio-fertilizer reduce cost of cultivation</li> </ul>
		Azotobactor	Improve soil health
			Good oil contents
			Late and higher yielding variety
2	Groundnut	Improved var. Seed	GJG-32 is high yielding variety
	Kharif	(GJG-32), Metarhizium	Effective control White grub with Metariazhum
	NFSM	anisopliae,	Also reduce the damage of pod borer
		Trichoderma, PSB,	Bio fertilizers reduce cost of fertilizer
		Rhizobium, Beauveria	Less incidence of Sclerotium
3	Castor	Variety GCH-9	GCH-9 is high yielding under irrigation condition
			Medium duration
			Profuse branching habit with medium plant stature
			Resistant to Fusarium wilt and Macrophomina root rot
			Thrips, leaf hopper and whitefly infestation is low
	Pluses		
4	Chickpea	Varietal (GJG-5),	GJG-5 is suitable for irrigated area
		Trichoderma, PSB,	<ul> <li>GJG-5 Moderately resistant to wilt, Ascochyta blight,</li> </ul>
		Rhizobium, Beauveria	stunt, root rot
		bassiana	Early maturity having safe for low irrigation facility
			Bio pesticide and bio fertilizer are very effective and Each based
			Easy to use
			Easiey available and eco mendly
			It also reduce use of chemical pesticide/iertilizer in the era of organic farming
	Cereals		
	cerears		
5	Pearl Millet	Varietal (GHB-1129)	Plant height, grain size and spike length is
			medium
			Resistant to lodging
			having good quality of stover along with
			consumer preferred seed colour
			high Fe and Zn content (Bio fortified variety)
			> resistant to downy mildew. Resistant to smut,
			ergot stem borer and shoot fly
6	Wheat	Variety – GJW-451	More number of tillers having require less seed rate
			<ul> <li>Higher yielding variety</li> </ul>
			<ul> <li>Attractive grain colour with lustrous.</li> </ul>

			$\checkmark$	Early sown irrigated
			$\triangleright$	Diseases resistant (Black and brown rust)
			$\succ$	Excellent chapatti and bread making quality
	Spices crop			
7	Ajwain	Beauveria, Trichoderma,	$\succ$	Use of Azotobacter and PSB had reduced the quantity
		Azotobactor, PSB, Mix		of chemical fertilizers
		micro nutrient		Beauveria helped in control of thrips, aphid and other
				pests
			$\succ$	Due to Trichoderma the incidence of wilt were
				minimized
				Cost of cultivation was reduced
			$\succ$	The products were easy to use
8	Cumin	Beauveria, Trichoderma,	$\triangleright$	Use of Azotobacter and PSB had reduced the quantity
		Azotobactor, PSB		of chemical fertilizers
			$\triangleright$	Beauveria helped in control of thrips, aphid and other
				pests
			$\triangleright$	Due to Trichoderma the incidence of wilt were
				minimized
			$\succ$	Cost of cultivation was reduced
			$\blacktriangleright$	The products were easy to use
9	Coriander	Beauveria, Trichoderma,	$\triangleright$	Use of Azotobacter and PSB had reduced the quantity
		Azotobactor, PSB		of chemical fertilizers
			$\succ$	Beauveria helped in control of thrips, aphid and other
				pests
			$\succ$	Due to Trichoderma the incidence of wilt were
				minimized
				Cost of cultivation was reduced
				The products were easy to use
	Others			
10	Cotton	Azadirachtin		Advance management for nest control is benefitted
	cotton	Profemanhas Reguveria	Ĺ	for less damage in plants for higher yield
		hassiana UNDV MDD		MDP Technology is very effectively but sum what
		Dussiuliu, HNPV, MDP	Ĺ	laboring also
				Beguverig is very effective against sucking and
			Ĺ	chewing nest
				Low cost pest management for longer time
11	Solar cooker	Solar cooker		Light weight & Fasy to mobile
				Use less fuel and Reduce fuel collection time
				Reduce cooking time
				Completely smoke less
				Conserve trees
				Allow more dung to be used as fertilizer instead of
			<i>,</i>	fuel
12	Drudgery	Cotton Picking Apron	≻	Useful for manual cotton picking and also vegetable
	reduction			harvesting
			$\triangleright$	Use of apron makes the women comfortable while
				picking cotton
			$\triangleright$	Prevents scratching of the skin
13	Kitchen	Vegetable seed,	$\triangleright$	Fresh vegetable available at doorstep and at a time with
	gardening	Beauveria		minimum cost
			$\triangleright$	Regulatory daily nutritious diet.

	<b>^</b>	They produce organic vegetables because farm women are not applying any pesticides or agrochemicals in their backyard. Utilized maximum backyard space and waste water.
	$\triangleright$	Income generated by selling extra vegetables grown in
		kitchen garden.

## Extension and Training activities under FLD

SI.No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Field days	2	5.01.23	26	
		1	18.01.23	7	
		1	22.02.23	7	
		1	13.04.23	12	
		1	3.05.23	9	
		1	4.05.23	25	
		1	11.05.23	9	
		1	2.08.23	26	
		1	31.08.23	26	
		1	13.09.23	13	
2	Farmers training	1	12.01.23	89	
		1	18.01.23	36	
		1	27.05.23	42	
		1	5.06.23	35	
		1	4.07.23	25	
		1	6.07.23	26	
		1	27.07.23	70	
		1	21.08.23	76	
		1	26.10.23	60	
3	Media coverage	7			
4	Training for extension functionaries	1	24.03.23	43	
		1	21.09.23	78	

## **C. PERFORMANCE OF FRONTLINE DEMONSTRATIONS**

Front line demonstrations on oilseed crops

	Them-	tachnology	Variat	No. of	A.r	Yield (	q/ha)			%	Econom (Rs./ha)	ics of de	nonstra	ation	Econor (Rs./ha	nics of ch )	eck	
Crop	atic	demonstrated	variet	Farmer	Area (ha)	Demo	1			increas e in	Gross	Gross	Net	BCR	Gross	Gross	Net	BCR
	Area		,	S	(,	High	Low	Averag e	Check	yield	Cost	Return	Return	(R/C)	Cost	Return	Return	(R/C)
Sesame (NFSM) (Sum- 2022-23)	ICM	Improved Var.(G. Til-5), Beauveria bassiana, Trichoderma, PSB, Azotobactor	G.Til5	50	20	13.05	8.5	11.0	9.6	14.58	37840	121000	83160	3.2	40960	105600	64640	2.6
Groun- dnut (NFSM) (Kh-2023- 24)	ICM	Improved Var.(GJG32), <i>Metarhizium,</i> Trichoderma, PSB, Rhizobium	GJG-32	50	20	22.90	15.0	17.49	15.90	9.95	48141	104916	56775	2.18	52531	95424	42893	1.82

## Front line demonstrations on Pulses crops

	Themati	technology	Variet	No. of	Are	Yield	(q/ha)		1	% Increas	Econo demo	omics of nstratio	on (Rs./h	na)	Econo (Rs./h	mics of a)	check	
Crop	c Area	demonstrate d	y	Farmer s	a (ha)	Demo High	low	Averag	Chec	e in	Gros s	Gross Retur	Net Retur	BCR (R/C	Gros s	Gross Retur	Net Retur	BCR (R/C
		-		•	()		LOW	e	k	yield	Cost	n	n	)	Cost	n	n	)
Chickpea* (NFSM)(Rabi- 2022-23)	IPM, Varietal	Seed GG-5, Beauveria, Trichoderma, Azotobactor, PSB	GG-5	50	20	28.65	21.0	25.03	22.01	13.72	50753	130970	80 216	2.58	51919	117449	65530	2.26

## FLD on Other crops

Season	Category Thematic		No. of	A #00		Yield	(q/ha)		%	Ot Paran	her neters	dem	Econor onstrat	nics of ion (Rs.	/ha)	Eco	nomics (Rs./	of chec ha)	:k	
	& Crop	Area	technology	Farmers	Area (ha)	High	Demo Low	Avera ge	Check	Change in Yield	Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
		Oilseed	S																	
Kharif 2022-23	Castor (ATIC)	Varietal	GCH-9	20	8	47.5	28.12	36.22	31.81	13.85			63355	199203	135848	3.14	64995	174969	109974	2.69
	Cereals																			
Summer 2022-23	Pearl millet	Varietal	GHB-1129	10	4	41.25	35.0	38.25	33.13	15.45			32405	76500	44095	2.36	34465	66250	31785	1.93
Rabi 2022-23	Wheat	Varietal	Variety –GW 451	10	4	52.5	45.0	49.88	45.50	9.63			38960	124688	85728	3.20	41880	113750	71870	2.72
	Spic	es & cond	liments																	
Kharif 2023-24	Ajwain	ICM Be M Tr Az PS	eauveria, Mix icro Nutrient, ichoderma, cotobactor, SB	10	04	10.25	6.75	8.75	8.10	8.02			40500	100625	60125	2.48	42490	93150	50660	2.19
Rabi- 2022-23	Cumin (ATIC)*	ICM Be Tr Az PS	eauveria, ichoderma, otobactor, B,	20	8	9.38	5.63	7.25	6.66	8.86	I	ı	52375	217500	165125	4.15	58060	199688	141628	3.44

Rabi- 2022-23	Coriander (ATIC)*	ICM	Beauveria, Trichoderma, Azotobactor, PSB,	20	8	16.88	12.50	14.80	13.80	7.25	I	I	33303	92523	59221	2.78	36330	75883	39553	2.09
	Other Crops																			
Kharif 2022-23	Cotton	ICM	Beauveria, SNPV, MDP, Azadirachtin	25	10	22.5	10	15.9	13.5	17.78			56027	126800	70773	2.26	61788	107600	45812	1.75

## Frontline Demonstration on Nutri cereals

Season	Crop	Thematic	Technology	Variety	No. of	Area		Yield (q/ha)					Econo	mics of		Ec	onomic	s of che	eck
		Area	demonstrated		Farmers	(ha)					Increase	dem	onstrat	ion (Rs.	/ha)		(Rs.,	/ha)	
								Demo			in yield	Gross	Gross	Net	BCR	Gross	Gross	Net	BCR
							High	Low	Average			Cost	Return	Return	(R/C)	Cost	Return	Return	(R/C)
Summer	Pearl	Varietal	GHB-1129									(.)		,		(1)		(1)	
2022-23	millet			GHB-	10	л	41.	ω 5	38.	33.	15.	324	765	44C	2.3	344	562	317	1.9
				1129	10	-	25	.o	25	13	45	05	00	995	6	-65	.50	85	8

#### FLD on Livestock

Category	Thematic area	Name of the	No. of	No. of	Yield (	Yield (Lit/5		Fat	( %)	Econor	nics of d	emonstr	ation	Eco	onomics	of chec	k
and Crop		technology	Farmer	Units	mont	months)					(Rs./u	ınit)			(Rs./u	nit)	
		demonstrated			Demons	emons Check i		Demo	Check	Gross	Gross	Net	BCR	Gross	Gross	Net	BCR
					ration					Cost	Return	Return	(R/C)	Cost	Return	Return	(R/C)

FLD on Women E	mpowerment				
Category	Name of	No. of demonstrations	Name of observations	Demonstration	Check
	technology				
Solar cooker	Solar cooker	5	Fuel consumption (per year)	Solar energy + 60 kg LPG	86 kg LPG
			Time saving	51 to 57%	0
Drudgery	Cotton picking	5	Seed cotton picked (kg/hr)	3.38	3.04
reduction	apron		Cotton picking efficiency (%)	11.18%	-

## FLD on Other Enterprise: Kitchen Gardening

Category	Thematic	Name of the	No. of	No. of	Yield (K	Yield (Kg)/unit		Other		Economics of demonstration				Economics of check			
and Crop	area	technology	Farmer	Units				parameters		(Rs./unit)				(Rs./unit)			
		demonstrated			Demons	Check	in yield	Demo	Check	Gross	Gross	Net	BCR	Gross	Gross	Net	BCR
					ration					Cost	Return	Return	(R/C)	Cost	Return	Return	(R/C)
Kitchen gardening	Nutritional security	Vegetable seed	50	50	535.90	438.90	22.10	-	-	4950	13397	8447	2.71	5201	10972	5771	2.11

Note : Remove the Enterprises/crops which have not been shown

## FLD on Demonstration details on crop hybrids

Gran	technology	Hybrid Variaty	No. of	Area	Yield (q/ha)				% Increase	Economics of demonstration (Rs./ha)			
Сгор	demonstrated	Hybrid variety	Farmers	(ha)		Dem	0	Check	in yield	Gross	Gross	Net	BCR
					High	Low	Average	CHECK		Cost	Return	Return	(R/C)
Cereal crop													
Pearl millet	Varietal	Varietal- GHB-1231	10	4	41.25	35.0	38.25	33.13	15.45	32405	76500	44095	2.36

## **3.4 TRAINING PROGRAMME**

## Farmers' Training including sponsored training programmes (on campus)

Thematic Area	No. of	of No. of participant						
	couses		others			SC/ST		Grand
		Male	Female	Total	Male	Female	Total	Total
(A) Farmers & Farm Women								
I Crop Production								
Weed Management				0			0	0
Resource Conservation Technologies	1	14	0	14	36	0	36	50
Cropping Systems				0			0	0
Crop Diversification				0			0	0
Integrated Farming	1	59	6	65	5	0	5	70
Micro Irrigation/irrigation				0			0	0
Seed production				0			0	0
Nursery management				0			0	0
Integrated Crop Management				0			0	0
Soil & water conservatioin	1	0	45	45	0	15	15	60
Integrated nutrient management				0			0	0
Production of organic inputs				0			0	0
Others (pl specify)				0			0	0
Total	3	73	51	124	41	15	56	180
II Horticulture				0			0	0
a) Vegetable Crops				0			0	0
Production of low volume and high				0			0	0
value crops				0				0
Off-season vegetables				0			0	0
Nursery raising				0			0	0
Exotic vegetables like Broccoli				0			0	0
Creding and standardization				0			0	0
Brotoctive cultivation (Green Houses				0			0	0
Shade Net etc.)				0			0	0
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				0			0	0
plants/orchards							-	
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				0			0	0
plants								
Propagation techniques of			36	0			0	0
Ornamental Plants								

d) Plantation crops	l	1		0			0	0
Production and Management				0			0	0
technology				, C			· ·	C C
Processing and value addition				0			0	0
e) Tuber crops				0			0	0
Production and Management				0			0	0
technology				Ŭ			Ű	Ũ
Processing and value addition				0			0	0
f) Spices				0			0	0
Production and Management				0			0	0
technology				Ŭ			Ũ	Ũ
Processing and value addition	1	0	58	58	0	5	5	63
g) Medicinal and Aromatic Plants	-			0		<u> </u>	0	0
Nursery management				0			0	0
Production and management				0			0	0
technology				Ŭ			U	U
Post harvest technology and value				0			0	0
addition				Ŭ			Ű	Ũ
Total	1	0	58	58	0	5	5	63
III Soil Health and Fertility				0			0	0
Management				Ŭ			Ū	C .
Soil fertility management				0			0	0
Integrated water management				0			0	0
Integrated Nutrient Management				0			0	0
Production and use of organic inputs	1	16	37	53	0	4	4	57
Management of Problematic soils		10	57	0	0		0	0
Micro nutrient deficiency in crons				0			0	0
Nutrient Use Efficiency				0			0	0
Balance use of fertilizers				0			0	0
Soil and Water Testing	1	0	00	0	0	0	0	0
Others (nl specify)		0	90	90	0	0	0	90
Total	2	16	107	142	0	Δ	0	147
IV Livesteck Production and	2	10	127	145	0	4	4	14/
Management				0			0	0
Dainy Management	1	Q	Q	16	0	2	2	10
		0	0	10	0	5	3	19
Poulty Management				0			0	0
Piggery Management				0			0	0
Animal Nutrition Management				0			0	0
Disease Management				0			0	0
Disease Management	1	15		0	0		0	
Pred & Todder technology	1	15	55	70	0	5	5	/5
Production of quality animal				0			0	0
Others (al specify)				0				0
	2	22	62	0	0	0	0	0
	2	23	63	86	U	ð	8	94
omnowerment				0			0	0
Household food cocyrity by kitchen				0			0	0
gardening and nutrition gardening				0			0	0
Design and development of				25	Λ	5	5	30
low/minimum cost diet	1	0	25	25		5	5	50
	<u> </u>	, v						

Designing and development for high nutrient efficiency diet	1	0	47	47	0	0	0	47
Minimization of nutrient loss in processing				0			0	0
Processing and cooking				0			0	0
Gender mainstreaming through SHGs				0			0	0
Storage loss minimization techniques				0			0	0
Value addition		25	101	126	2	5	0 0	12/
	3	25	101	120	5	5	0	134
women empowerment				0			0	0
Location specific drudgery reduction				0			0	0
Bural Crafts				0			0	0
Women and child care				0			0	0
Others (nl specify)	1	0	40	40	0	10	10	50
Total	-	25	212	220	о Э	20	22	261
VI Agril Engineering	0	25	215	230	5	20	23	201
Farm Machinary and its maintenance				0			0	0
Installation and maintenance of	1	26	0	36	0	0	0	36
micro irrigation systems	T	30	0	30	0	0	0	30
Use of Plastics in farming practices				0			0	0
Production of small tools and				0			0	0
implements								
Repair and maintenance of farm				0			0	0
machinery and implements								
Small scale processing and value				0			0	0
addition								
Post Harvest Technology				0			0	0
Others (pl specify)				0			0	0
Total	1	36	0	36	0	0	0	36
VII Plant Protection				0			0	0
Integrated Pest Management	6	197	49	246	0	0	0	246
Integrated Disease Management	2	61	20	81	0	30	30	111
Bio-control of pests and diseases	1	70	2	72	6	0	6	78
Production of bio control agents and				0			0	0
bio pesticides								
Others (pl specify)	2	121	21	142	17	0	17	159
Total	11	449	92	541	23	30	53	594
VIII Fisheries				0			0	0
Integrated fish farming				0			0	0
Carp breeding and hatchery				0			0	0
management				-				
Carp try and fingerling rearing				0			0	0
Composite fish culture				0			0	0
of freshwater prawn				0			U	0
Breeding and culture of ornamental				0			0	0
fishes				0			0	0
Portable plastic carp hatchery				0			0	0
Pen culture of fish and prawn		1		0			0	0
Shrimp farming		1		0			0	0
Edible ovster farming				0			0	0
	]	1	1				U	0

Pearl culture			l	0			0	0
Fish processing and value addition				0			0	0
Others (pl specify)				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				0			0	0
Planting material production				0			0	0
Bio-agents production				0			0	0
Bio-pesticides production	1	0	45	45	0	0	0	45
Bio-fertilizer production				0			0	0
Vermi-compost production	1	47	3	50	7	0	7	57
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
Mushroom Production				0			0	0
Apiculture				0			0	0
Others (pl specify)				0			0	0
Total	2	47	48	95	7	0	7	102
X Capacity Building and Group				0			0	0
Dynamics								
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								
Others (pl specify)				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
Others (pl specify)				0			0	0
Total	0	0	0	0	0	0	0	0
TOTAL	28	669	652	1321	74	82	156	1477

## Farmers' Training including sponsored training programmes (off campus)

Thematic Area	No. of	of No. of participant						
	couses		others			SC/ST		Grand
		Male	Female	Total	Male	Female	Total	Total
(A) Farmers & Farm Women								
I Crop Production								
Weed Management	1	87	15	102	43	0	43	145
Resource Conservation Technologies	1	89	0	89	0	0	0	89
Cropping Systems	1	117	3	120	8	0	8	128
Crop Diversification				0			0	0
Integrated Farming				0			0	0
Micro Irrigation/irrigation				0			0	0
Seed production				0			0	0
Nursery management				0			0	0
Integrated Crop Management	1	25	5	30	0	0	0	30
Soil & water conservatioin	1	35	0	35	0	0	0	35
Integrated nutrient management				0			0	0
Production of organic inputs				0			0	0
Others (pl specify)				0			0	0
Total	5	353	23	376	51	0	51	427
II Horticulture				0			0	0
a) Vegetable Crops				0			0	0
Production of low volume and high				0			0	0
value crops								
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,				0			0	0
Shade Net 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				0			0	0
plants/orchards								
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				0			0	0
plants								
Propagation techniques of				0			0	0
Ornamental Plants								
d) Plantation crops				0			0	0

Draduction and Managament	I	1		0	1		0	0
technology				0			0	0
Processing and value addition				0			0	0
a) Tuber crops				0			0	0
Production and Management				0			0	0
technology				0			0	0
Processing and value addition				0			0	0
f) Spices				0			0	0
Production and Management	1	152	0	152	0	0	0	152
technology	-	152	0	152	0	0	U	152
Processing and value addition				0			0	0
g) Medicinal and Aromatic Plants				0			0	0
Nursery management				0			0	0
Production and management				0			0	0
technology				Ŭ			U	U
Post harvest technology and value				0			0	0
addition				Ũ			Ũ	Ŭ
Total	1	152	0	152	0	0	0	152
III Soil Health and Fertility				0			0	0
Management								
Soil fertility management				0			0	0
Integrated water management				0			0	0
Integrated Nutrient Management	1	26	0	26	0	0	0	26
Production and use of organic inputs	1	18	20	38	0	0	0	38
Management of Problematic soils				0			0	0
Micro nutrient deficiency in crops				0			0	0
Nutrient Use Efficiency				0			0	0
Balance use of fertilizers	1	32	0	32	10	0	10	42
Soil and Water Testing				0			0	0
Others (pl specify)				0			0	0
Total	3	76	20	96	10	0	10	106
IV Livestock Production and				0			0	0
Management								
Dairy Management				0			0	0
Poultry Management				0			0	0
Piggery Management				0			0	0
Rabbit Management				0			0	0
Animal Nutrition Management				0			0	0
Disease Management				0			0	0
Feed & fodder technology				0			0	0
Production of quality animal				0			0	0
products								
Others (pl specify)				0			0	0
Total	0	0	0	0	0	0	0	0
V Home Science/Women				0			0	0
empowerment								
Household food security by kitchen	2	0	51	51	0	0	0	51
Household food security by kitchen gardening and nutrition gardening	2	0	51	51	0	0	0	51
Household food security by kitchen gardening and nutrition gardening Design and development of	2	0	51	51 0	0	0	0	51 0

Designing and development for high nutrient efficiency diet				0			0	0
Minimization of nutrient loss in				0			0	0
Processing and cooking	1	0	0	0	0	24	24	24
Gender mainstreaming through SHGs	-			0			0	0
Storage loss minimization techniques				0			0	0
Value addition	1	0	25	25	0	0	0	25
Women empowerment	1	0	42	42	0	0	0	42
Location specific drudgery reduction	-		12	0		Ű	0	0
technologies				0			0	0
Rural Crafts				0			0	0
Women and child care				0			0	0
Others (pl specify)				0			0	0
Total	5	0	118	118	0	24	24	142
VI Agril. Engineering				0			0	0
Farm Machinary and its maintenance				0			0	0
Installation and maintenance of micro irrigation systems				0			0	0
Use of Plastics in farming practices				0			0	0
Production of small tools and				0			0	0
implements				_				-
Repair and maintenance of farm				0			0	0
machinery and implements								
Small scale processing and value addition				0			0	0
Post Harvest Technology				0			0	0
Others (pl specify)				0			0	0
Total	0	0	0	0	0	0	0	0
VII Plant Protection				0			0	0
Integrated Pest Management	1	27	6	33	0	0	0	33
Integrated Disease Management	2	96	56	152	0	0	0	152
Bio-control of pests and diseases	1	80	59	139	6	4	10	149
Production of bio control agents and				0			0	0
bio pesticides								
Others (pl specify)	1	77	0	77	0	0	0	77
Total	5	280	121	401	6	4	10	411
VIII Fisheries				0			0	0
Integrated fish farming				0			0	0
Carp breeding and hatchery				0			0	0
management								
Carp fry and fingerling rearing				0			0	0
Composite fish culture				0			0	0
Hatchery management and culture				0			0	0
of freshwater 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 ovster farming				0			0	0
	1	I						

Pearl culture				0			0	0
Fish processing and value addition				0			0	0
Others (pl specify)				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				0			0	0
Organic manures production	1	26	0	26	0	0	0	26
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
Mushroom Production				0			0	0
Apiculture				0			0	0
Others (pl specify)				0			0	0
Total	1	26	0	26	0	0	0	26
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								
Others (pl specify)				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
Others (pl specify)				0			0	0
Total	0	0	0	0	0	0	0	0
TOTAL	20	887	282	1169	67	28	95	1264

#### Farmers' Training including sponsored training programmes – CONSOLIDATED (On + Off campus)

cousesSC/STGrand Total(A) Farmers & Farm WomenIMaleFemaleTotalMateFemaleTotalTotalI Crop Production1871510243043145Resoure Conservation Technologies2103010336036139Cropping Systems11173120800000Integrated Farming15966550570Micro Irrigation/Irrigation000000000Sed production00000000000Nursery management12553000000000Integrated Crop Management00 </th <th>Thematic Area</th> <th>No. of</th> <th colspan="7">of No. of participant</th>	Thematic Area	No. of	of No. of participant						
Male         Female         Total         Male         Female         Total         Total           (A) Farmers & Farm Women         .		couses		others			SC/ST		Grand
(A) Farmers & Farm Women         Image         Image <thimage< th="">         Image         Imag</thimage<>			Male	Female	Total	Male	Female	Total	Total
I Crop Production         Image method         1         87         15         102         43         0         43         145           Resource Conservation Technologies         2         103         0         103         36         0         36         139           Cropping Systems         1         117         3         120         8         0         8         128           Crop Diversification         0	(A) Farmers & Farm Women								
Weed Management         1         87         15         102         43         0         43         143           Resource Conservation Technologies         2         103         0         103         36         0         88         139           Cropping Systems         1         117         3         120         8         0         8         128           Crop Diversification         0	I Crop Production								
Resource Conservation Technologies         2         103         0         103         36         0         36         139           Crop Diversification         0	Weed Management	1	87	15	102	43	0	43	145
Cropping Systems         1         117         3         120         8         0         8         128           Crop Diversification         0	Resource Conservation Technologies	2	103	0	103	36	0	36	139
Crop Diversification         0         0         0         0         0         0         0         0           Integrated Farming         1         59         6         65         5         0         5         70           Micro Irrigation/Irrigation         0	Cropping Systems	1	117	3	120	8	0	8	128
Integrated Farming         1         59         6         65         5         0         5         70           Micro Irrigation/Irrigation         0	Crop Diversification	0	0	0	0	0	0	0	0
Micro Irrigation/Irrigation         0<	Integrated Farming	1	59	6	65	5	0	5	70
Seed production         0	Micro Irrigation/irrigation	0	0	0	0	0	0	0	0
Nursery management         0	Seed production	0	0	0	0	0	0	0	0
Integrated Crop Management         1         25         5         30         0         0         0         30           Soil & water conservatioin         2         35         45         80         0         15         15         95           Integrated nutrient management         0         <	Nursery management	0	0	0	0	0	0	0	0
Soil & water conservation         2         35         45         80         0         15         15         95           Integrated nutrient management         0	Integrated Crop Management	1	25	5	30	0	0	0	30
Integrated nutrient management         0 <th< td=""><td>Soil &amp; water conservatioin</td><td>2</td><td>35</td><td>45</td><td>80</td><td>0</td><td>15</td><td>15</td><td>95</td></th<>	Soil & water conservatioin	2	35	45	80	0	15	15	95
Production of organic inputs         0	Integrated nutrient management	0	0	0	0	0	0	0	0
Others (pl specify)         0	Production of organic inputs	0	0	0	0	0	0	0	0
Total         8         426         74         500         92         15         107         607           II Horticulture         0 <td< td=""><td>Others (pl specify)</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></td<>	Others (pl specify)	0	0	0	0	0	0	0	0
II Horticulture         0         0         0         0         0           a) Vegetable Crops         0         <	Total	8	426	74	500	92	15	107	607
a) Vegetable Crops         0	II Horticulture				0			0	0
Production of low volume and high value crops         0 </td <td>a) Vegetable Crops</td> <td></td> <td></td> <td></td> <td>0</td> <td></td> <td></td> <td>0</td> <td>0</td>	a) Vegetable Crops				0			0	0
value crops         Image: Constraint of the season vegetables         Image: Conseason vegetables         Image: Constraint of the seas	Production of low volume and high	0	0	0	0	0	0	0	0
Off-season vegetables         0	value crops								
Nursery raising         0	Off-season vegetables	0	0	0	0	0	0	0	0
Exotic vegetables like Broccoli         0 <t< td=""><td>Nursery raising</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></t<>	Nursery raising	0	0	0	0	0	0	0	0
Export potential vegetables         0<	Exotic vegetables like Broccoli	0	0	0	0	0	0	0	0
Grading and standardization         0<	Export potential vegetables	0	0	0	0	0	0	0	0
Protective cultivation (Green Houses, 0       0 <td>Grading and standardization</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td>	Grading and standardization	0	0	0	0	0	0	0	0
Shade Net etc.)         Image: Constraint of the state of the st	Protective cultivation (Green Houses,	0	0	0	0	0	0	0	0
b) Fruits         0	Shade Net etc.)								
Training and Pruning       0	b) Fruits	0	0	0	0	0	0	0	0
Layout and Management of Orchards         0	Training and Pruning	0	0	0	0	0	0	0	0
Cultivation of Fruit         0	Layout and Management of Orchards	0	0	0	0	0	0	0	0
Management of young0000000000plants/orchards0000000000Rejuvenation of old orchards000000000Export potential fruits000000000Micro irrigation systems of orchards00000000Plant propagation techniques00000000C) Ornamental Plants00000000Nursery Management00000000Management of potted plants00000000Propagation techniques of00000000Propagation techniques of00000000Ornamental Plants00000000	Cultivation of Fruit	0	0	0	0	0	0	0	0
Plants/orchards         0	Management of young	0	0	0	0	0	0	0	0
Representation of one of chards00000000Export potential fruits000000000Micro irrigation systems of orchards00000000Plant propagation techniques00000000c) Ornamental Plants00000000Nursery Management00000000Management of potted plants0000000Export potential of ornamental0000000Propagation techniques of0000000Ornamental Plants0000000	Rejuvenation of old orchards	0	0	0	0	0	0	0	0
Export potential nuits00000000Micro irrigation systems of orchards00000000Plant propagation techniques00000000c) Ornamental Plants00000000Nursery Management00000000Management of potted plants0000000Export potential of ornamental0000000Propagation techniques of0000000	Export potential fruits	0	0	0	0	0	0	0	0
Nucleon righted systems of orchards0000000Plant propagation techniques00000000c) Ornamental Plants000000000Nursery Management000000000Management of potted plants00000000Export potential of ornamental0000000Propagation techniques of0000000Ornamental Plants0000000	Micro irrigation systems of orchards	0	0	0	0	0	0	0	0
c) Ornamental Plants0000000Nursery Management00000000Management of potted plants00000000Export potential of ornamental00000000Propagation techniques of00000000	Plant propagation techniques	0	0	0	0	0	0	0	0
Openation functionOOOOOOONursery Management00000000Management of potted plants00000000Export potential of ornamental00000000Propagation techniques of00000000	c) Ornamental Plants	0	0	0	0	0	0	0	0
Nursery management0000000Management of potted plants00000000Export potential of ornamental00000000plants000000000Propagation techniques of0000000	Nursery Management	0	0	0	0	0	0	0	0
Export potential of ornamental0000000plants00000000Propagation techniques of0000000Ornamental Plants	Management of notted plants	0	0	0	0	0	0	0	0
Description of the individual of	Export potential of ornamental	0	0	0	0	0	0	0	0
Propagation techniques of     0     0     0     0     0     0       Ornamental Plants	plants	Ũ	Ũ	Ũ	Ũ	Ũ	Ũ	Ũ	Ŭ
Ornamental Plants	Propagation techniques of	0	0	0	0	0	0	0	0
	Ornamental Plants	_	-	-		-	-		
d) Plantation crops 0 0 0 0 0 0 0 0 0	d) Plantation crops	0	0	0	0	0	0	0	0
Production and Management 0 0 0 0 0 0 0 0 0	Production and Management	0	0	0	0	0	0	0	0
technology	technology								

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	0	0	0	0	0	0	0	0
technology								
Processing and value addition	0	0	0	0	0	0	0	0
f) Spices	0	0	0	0	0	0	0	0
Production and Management	1	152	0	152	0	0	0	152
technology								
Processing and value addition	1	0	58	58	0	5	5	63
g) Medicinal and Aromatic Plants	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0
Production and management	0	0	0	0	0	0	0	0
technology								
Post harvest technology and value	0	0	0	0	0	0	0	0
addition								
Total	2	152	58	210	0	5	5	215
III Soil Health and Fertility				0			0	0
Management								
Soil fertility management	0	0	0	0	0	0	0	0
Integrated water management	0	0	0	0	0	0	0	0
Integrated Nutrient Management	1	26	0	26	0	0	0	26
Production and use of organic inputs	2	34	57	91	0	4	4	95
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
Balance use of fertilizers	1	32	0	32	10	0	10	42
Soil and Water Testing	1	0	90	90	0	0	0	90
Others (pl specify)	0	0	0	0	0	0	0	0
Total	5	92	147	239	10	4	14	253
IV Livestock Production and				0			0	0
Management								
Dairy Management	1	8	8	16	0	3	3	19
Poultry Management	0	0	0	0	0	0	0	0
Piggery Management	0	0	0	0	0	0	0	0
Rabbit Management	0	0	0	0	0	0	0	0
Animal Nutrition Management	0	0	0	0	0	0	0	0
Disease Management	0	0	0	0	0	0	0	0
Feed & fodder technology	1	15	55	70	0	5	5	75
Production of quality animal	0	0	0	0	0	0	0	0
products								
Others (pl specify)	0	0	0	0	0	0	0	0
Total	2	23	63	86	0	8	8	94
V Home Science/Women				0			0	0
empowerment								
Household food security by kitchen	2	0	51	51	0	0	0	51
gardening and nutrition gardening								
Design and development of	1	0	25	25	0	5	5	30
low/minimum cost diet								
Designing and development for high	1	0	47	47	0	0	0	47
nutrient efficiency diet								

processing	0	0	0	0	0	0	0	0
Processing and cooking	1	0	0	0	0	24	24	24
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	4	25	126	151	3	5	8	159
Women empowerment	1	0	42	42	0	0	0	42
Location specific drudgery reduction	0	0	0	0	0	0	0	0
technologies								
Rural Crafts	0	0	0	0	0	0	0	0
Women and child care	0	0	0	0	0	0	0	0
Others (pl specify)	1	0	40	40	0	10	10	50
Total	11	25	331	356	3	44	47	403
VI Agril. Engineering				0			0	0
Farm Machinary and its maintenance	0	0	0	0	0	0	0	0
Installation and maintenance of	1	36	0	36	0	0	0	36
micro irrigation systems								
Use of Plastics in farming practices	0	0	0	0	0	0	0	0
Production of small tools and	0	0	0	0	0	0	0	0
implements								
Repair and maintenance of farm	0	0	0	0	0	0	0	0
machinery and implements								
Small scale processing and value	0	0	0	0	0	0	0	0
addition								
Post Harvest Technology	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0
Total	1	36	0	36	0	0	0	36
								0
VII Plant Protection				0			0	0
VII Plant Protection Integrated Pest Management	7	224	55	279	0	0	0	279
VII Plant Protection Integrated Pest Management Integrated Disease Management	7 4	224 157	55 76	279 233	0	0 30	0 0 30	279 263
VII Plant Protection Integrated Pest Management Integrated Disease Management Bio-control of pests and diseases	7 4 2	224 157 150	55 76 61	279 233 211	0 0 12	0 30 4	0 0 30 16	279 263 227
VII Plant Protection Integrated Pest Management Integrated Disease Management Bio-control of pests and diseases Production of bio control agents and	7 4 2 0	224 157 150 0	55 76 61 0	279 233 211 0	0 0 12 0	0 30 4 0	0 30 16 0	279 263 227 0
VII Plant Protection Integrated Pest Management Integrated Disease Management Bio-control of pests and diseases Production of bio control agents and bio pesticides	7 4 2 0	224 157 150 0	55 76 61 0	279 233 211 0	0 0 12 0	0 30 4 0	0 30 16 0	279 263 227 0
VII Plant Protection Integrated Pest Management Integrated Disease Management Bio-control of pests and diseases Production of bio control agents and bio pesticides Others (pl specify)	7 4 2 0 3	224 157 150 0 198	55 76 61 0 21	0 279 233 211 0 219	0 0 12 0 17	0 30 4 0	0 30 16 0 17	279 263 227 0 236
VII Plant Protection Integrated Pest Management Integrated Disease Management Bio-control of pests and diseases Production of bio control agents and bio pesticides Others (pl specify) Total	7 4 2 0 3 <b>16</b>	224 157 150 0 198 <b>729</b>	55 76 61 0 21 <b>213</b>	0 279 233 211 0 219 942	0 0 12 0 17 <b>29</b>	0 30 4 0 0 <b>34</b>	0 30 16 0 17 <b>63</b>	279 263 227 0 236 1005
VII Plant Protection Integrated Pest Management Integrated Disease Management Bio-control of pests and diseases Production of bio control agents and bio pesticides Others (pl specify) Total VIII Fisheries	7 4 2 0 3 16	224 157 150 0 198 <b>729</b>	55 76 61 0 21 <b>213</b>	0 279 233 211 0 219 <b>942</b> 0	0 0 12 0 17 <b>29</b>	0 30 4 0 0 <b>34</b>	0 30 16 0 17 <b>63</b> 0	279 263 227 0 236 236 1005 0
VII Plant ProtectionIntegrated Pest ManagementIntegrated Disease ManagementBio-control of pests and diseasesProduction of bio control agents and bio pesticidesOthers (pl specify)TotalVIII FisheriesIntegrated fish farming	7 4 2 0 3 <b>16</b> 0	224 157 150 0 198 <b>729</b> 0	55 76 61 0 21 <b>213</b> 0	0 279 233 211 0 219 942 0 0	0 0 12 0 17 <b>29</b> 0	0 30 4 0 0 <b>34</b> 0	0 0 30 16 0 17 <b>63</b> 0 0	279 263 227 0 236 1005 0 0
VII Plant ProtectionIntegrated Pest ManagementIntegrated Disease ManagementBio-control of pests and diseasesProduction of bio control agents andbio pesticidesOthers (pl specify)TotalVIII FisheriesIntegrated fish farmingCarp breeding and hatchery	7 4 2 0 3 <b>16</b> 0 0	224 157 150 0 198 <b>729</b> 0 0	55 76 61 0 21 <b>213</b> 0 0	0 279 233 211 0 219 942 0 0 0 0	0 0 12 0 17 <b>29</b> 0 0	0 30 4 0 0 <b>34</b> 0 0 0	0 0 30 16 0 17 <b>63</b> 0 0 0 0	279 263 227 0 236 <b>1005</b> 0 0 0
VII Plant Protection Integrated Pest Management Integrated Disease Management Bio-control of pests and diseases Production of bio control agents and bio pesticides Others (pl specify) Total VIII Fisheries Integrated fish farming Carp breeding and hatchery management	7 4 2 0 3 <b>16</b> 0 0	224 157 150 0 198 <b>729</b> 0 0	55 76 61 0 21 <b>213</b> 0 0	0 279 233 211 0 219 942 0 0 0 0	0 0 12 0 17 <b>29</b> 0 0	0 30 4 0 34 0 34	0 0 30 16 0 17 <b>63</b> 0 0 0 0	279 263 227 0 236 <b>1005</b> 0 0 0
VII Plant ProtectionIntegrated Pest ManagementIntegrated Disease ManagementBio-control of pests and diseasesProduction of bio control agents and bio pesticidesOthers (pl specify)TotalVIII FisheriesIntegrated fish farmingCarp breeding and hatchery managementCarp fry and fingerling rearing	7 4 2 0 3 <b>16</b> 0 0 0	224 157 150 0 198 <b>729</b> 0 0 0	55 76 61 0 21 <b>213</b> 0 0 0	0 279 233 211 0 219 <b>942</b> 0 0 0 0	0 0 12 0 17 <b>29</b> 0 0 0	0 30 4 0 34 0 34 0 0 0	0 0 30 16 0 17 <b>63</b> 0 0 0 0 0	0 279 263 227 0 236 <b>1005</b> 0 0 0 0
VII Plant ProtectionIntegrated Pest ManagementIntegrated Disease ManagementBio-control of pests and diseasesProduction of bio control agents and bio pesticidesOthers (pl specify)TotalVIII FisheriesIntegrated fish farmingCarp breeding and hatchery managementCarp fry and fingerling rearingComposite fish culture	7 4 2 0 3 <b>16</b> 0 0 0 0	224 157 150 0 198 <b>729</b> 0 0 0 0 0	55 76 61 0 21 213 0 0 0 0 0	0 279 233 211 0 219 942 0 0 0 0 0 0	0 0 12 0 17 <b>29</b> 0 0 0 0 0	0 30 4 0 34 0 34 0 0 0 0	0 0 30 16 0 17 <b>63</b> 0 0 0 0 0 0	0 279 263 227 0 236 <b>1005</b> 0 0 0 0 0 0
VII Plant ProtectionIntegrated Pest ManagementIntegrated Disease ManagementBio-control of pests and diseasesProduction of bio control agents and bio pesticidesOthers (pl specify)TotalVIII FisheriesIntegrated fish farmingCarp breeding and hatchery managementCarp fry and fingerling rearingComposite fish cultureHatchery management and culture	7 4 2 0 3 <b>16</b> 0 0 0 0 0 0 0	224 157 150 0 198 <b>729</b> 0 0 0 0 0 0	55 76 61 0 21 213 0 0 0 0 0 0 0	0 279 233 211 0 219 <b>942</b> 0 0 0 0 0 0 0 0	0 0 12 0 17 <b>29</b> 0 0 0 0 0 0	0 30 4 0 34 0 34 0 0 0 0 0 0	0 0 30 16 0 17 <b>63</b> 0 0 0 0 0 0 0 0 0 0	0 279 263 227 0 236 <b>1005</b> 0 0 0 0 0 0 0 0
VII Plant ProtectionIntegrated Pest ManagementIntegrated Disease ManagementBio-control of pests and diseasesProduction of bio control agents and bio pesticidesOthers (pl specify)TotalVIII FisheriesIntegrated fish farmingCarp breeding and hatchery managementCarp fry and fingerling rearing Composite fish cultureHatchery management and culture of freshwater prawnDensitienen berlinenen berl	7 4 2 0 3 <b>16</b> 0 0 0 0 0 0 0	224 157 150 0 198 <b>729</b> 0 0 0 0 0 0 0	55 76 61 0 21 <b>213</b> 0 0 0 0 0 0 0	0 279 233 211 0 219 <b>942</b> 0 0 0 0 0 0 0 0	0 0 12 0 17 <b>29</b> 0 0 0 0 0 0	0 30 4 0 34 0 34 0 0 0 0 0 0	0 0 30 16 0 17 <b>63</b> 0 0 0 0 0 0 0 0 0 0	0 279 263 227 0 236 <b>1005</b> 0 0 0 0 0 0 0 0
VII Plant ProtectionIntegrated Pest ManagementIntegrated Disease ManagementBio-control of pests and diseasesProduction of bio control agents and bio pesticidesOthers (pl specify)TotalVIII FisheriesIntegrated fish farmingCarp breeding and hatchery managementCarp fry and fingerling rearingComposite fish cultureHatchery management and culture of freshwater prawnBreeding and culture of ornamental fishes	7 4 2 0 3 <b>16</b> 0 0 0 0 0 0 0 0 0	224 157 150 0 198 <b>729</b> 0 0 0 0 0 0 0 0 0	55 76 61 0 21 213 0 0 0 0 0 0 0 0 0	0 279 233 211 0 219 <b>942</b> 0 0 0 0 0 0 0 0 0	0 0 12 0 17 <b>29</b> 0 0 0 0 0 0 0 0	0 30 4 0 34 0 34 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 30 16 0 17 <b>63</b> 0 0 0 0 0 0 0 0 0 0 0 0 0	0 279 263 227 0 236 <b>1005</b> 0 0 0 0 0 0 0 0 0 0
VII Plant ProtectionIntegrated Pest ManagementIntegrated Disease ManagementBio-control of pests and diseasesProduction of bio control agents and bio pesticidesOthers (pl specify)TotalVIII FisheriesIntegrated fish farmingCarp breeding and hatchery managementCarp fry and fingerling rearing Composite fish cultureHatchery management and culture of freshwater prawnBreeding and culture of ornamental fishesPortable plastic carp hatchery	7 4 2 0 3 <b>16</b> 0 0 0 0 0 0 0 0 0 0 0	224 157 150 0 198 <b>729</b> 0 0 0 0 0 0 0 0 0 0 0	55 76 61 0 21 <b>213</b> 0 0 0 0 0 0 0 0 0	0 279 233 211 0 219 <b>942</b> 0 0 0 0 0 0 0 0 0 0	0 0 12 0 17 <b>29</b> 0 0 0 0 0 0 0 0 0 0	0 30 4 0 34 0 34 0 0 0 0 0 0 0 0 0	0 0 30 16 0 17 <b>63</b> 0 0 0 0 0 0 0 0 0 0 0 0 0	0 279 263 227 0 236 <b>1005</b> 0 0 0 0 0 0 0 0 0 0 0 0
VII Plant ProtectionIntegrated Pest ManagementIntegrated Disease ManagementBio-control of pests and diseasesProduction of bio control agents and bio pesticidesOthers (pl specify)TotalVIII FisheriesIntegrated fish farmingCarp breeding and hatchery managementCarp fry and fingerling rearingComposite fish cultureHatchery management and culture of freshwater prawnBreeding and culture of ornamental fishesPortable plastic carp hatcheryPen culture of fish and prawn	7 4 2 0 3 <b>16</b> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	224 157 150 0 198 <b>729</b> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	55 76 61 0 21 213 0 0 0 0 0 0 0 0 0 0 0 0 0	0 279 233 211 0 219 <b>942</b> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 12 0 17 <b>29</b> 0 0 0 0 0 0 0 0 0 0 0 0	0 30 4 0 34 0 34 0 0 0 0 0 0 0 0 0 0 0	0 0 30 16 0 17 <b>63</b> 0 0 0 0 0 0 0 0 0 0 0 0 0	0 279 263 227 0 236 <b>1005</b> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
VII Plant ProtectionIntegrated Pest ManagementIntegrated Disease ManagementBio-control of pests and diseasesProduction of bio control agents and bio pesticidesOthers (pl specify)TotalVIII FisheriesIntegrated fish farmingCarp breeding and hatchery managementCarp fry and fingerling rearing Composite fish cultureHatchery management and culture of freshwater prawnBreeding and culture of ornamental fishesPortable plastic carp hatchery Pen culture of fish and prawnShrimp farming	7 4 2 0 3 <b>16</b> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	224 157 150 0 198 <b>729</b> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	55 76 61 0 21 213 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 279 233 211 0 219 942 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 12 0 17 <b>29</b> 0 0 0 0 0 0 0 0 0 0 0 0	0 30 4 0 34 0 34 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 30 16 0 17 <b>63</b> 0 0 0 0 0 0 0 0 0 0 0 0 0	0 279 263 227 0 236 <b>1005</b> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
VII Plant ProtectionIntegrated Pest ManagementIntegrated Disease ManagementBio-control of pests and diseasesProduction of bio control agents and bio pesticidesOthers (pl specify)TotalVIII FisheriesIntegrated fish farmingCarp breeding and hatchery managementCarp fry and fingerling rearing Composite fish cultureHatchery management and culture of freshwater prawnBreeding and culture of ornamental fishesPortable plastic carp hatchery Pen culture of fish and prawnShrimp farmingEdible oyster farming	7 4 2 0 3 <b>16</b> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	224 157 150 0 198 <b>729</b> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	55 76 61 0 21 <b>213</b> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 279 233 211 0 219 942 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 12 0 17 <b>29</b> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 30 4 0 34 0 34 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 30 16 0 17 <b>63</b> 0 0 0 0 0 0 0 0 0 0 0 0 0	0 279 263 227 0 236 <b>1005</b> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
VII Plant ProtectionIntegrated Pest ManagementIntegrated Disease ManagementBio-control of pests and diseasesProduction of bio control agents and bio pesticidesOthers (pl specify)TotalVIII FisheriesIntegrated fish farmingCarp breeding and hatchery managementCarp fry and fingerling rearing Composite fish cultureHatchery management and culture of freshwater prawnBreeding and culture of ornamental fishesPortable plastic carp hatchery Pen culture of fish and prawnShrimp farmingEdible oyster farmingPearl culture	7 4 2 0 3 <b>16</b> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	224 157 150 0 198 <b>729</b> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	55 76 61 0 21 213 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 279 233 211 0 219 942 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 12 0 17 <b>29</b> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 30 4 0 34 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 30 16 0 17 <b>63</b> 0 0 0 0 0 0 0 0 0 0 0 0 0	0 279 263 227 0 236 1005 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

KVK, JAU, JAMNAGAR

Others (pl specify)	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	0	0	0	0	0	0	0	0
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	0	45	45	0	0	0	45
Bio-fertilizer production	0	0	0	0	0	0	0	0
Vermi-compost production	1	47	3	50	7	0	7	57
Organic manures production	1	26	0	26	0	0	0	26
Production of fry and fingerlings	0	0	0	0	0	0	0	0
Production of Bee-colonies and wax	0	0	0	0	0	0	0	0
sheets								
Small tools and implements	0	0	0	0	0	0	0	0
Production of livestock feed and	0	0	0	0	0	0	0	0
fodder								
Production of Fish feed	0	0	0	0	0	0	0	0
Mushroom Production	0	0	0	0	0	0	0	0
Apiculture	0	0	0	0	0	0	0	0
Others (pl specify)	0	0	0	0	0	0	0	0
Total	3	73	48	121	7	0	7	128
X Capacity Building and Group				0			0	0
Dynamics								
Leadership development	0	0	0	0	0	0	0	0
Leadership development Group dynamics	0 0	0	0	0	0 0	0 0	0	0
Dynamics         Leadership development         Group dynamics         Formation and Management of SHGs	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
DynamicsLeadership developmentGroup dynamicsFormation and Management of SHGsMobilization of social capital	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0
DynamicsLeadership developmentGroup dynamicsFormation and Management of SHGsMobilization of social capitalEntrepreneurial development of	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0
DynamicsLeadership developmentGroup dynamicsFormation and Management of SHGsMobilization of social capitalEntrepreneurial development offarmers/youths	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0
DynamicsLeadership developmentGroup dynamicsFormation and Management of SHGsMobilization of social capitalEntrepreneurial development offarmers/youthsWTO and IPR issues	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0
DynamicsLeadership developmentGroup dynamicsFormation and Management of SHGsMobilization of social capitalEntrepreneurial development offarmers/youthsWTO and IPR issuesOthers (pl specify)	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0
DynamicsLeadership developmentGroup dynamicsFormation and Management of SHGsMobilization of social capitalEntrepreneurial development offarmers/youthsWTO and IPR issuesOthers (pl specify)Total	0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0
DynamicsLeadership developmentGroup dynamicsFormation and Management of SHGsMobilization of social capitalEntrepreneurial development of farmers/youthsWTO and IPR issuesOthers (pl specify)TotalXI Agro-forestry	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0 0 0 0
DynamicsLeadership developmentGroup dynamicsFormation and Management of SHGsMobilization of social capitalEntrepreneurial development offarmers/youthsWTO and IPR issuesOthers (pl specify)TotalXI Agro-forestryProduction technologies	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0
DynamicsLeadership developmentGroup dynamicsFormation and Management of SHGsMobilization of social capitalEntrepreneurial development of farmers/youthsWTO and IPR issuesOthers (pl specify)TotalXI Agro-forestryProduction technologiesNursery management	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0
DynamicsLeadership developmentGroup dynamicsFormation and Management of SHGsMobilization of social capitalEntrepreneurial development of farmers/youthsWTO and IPR issuesOthers (pl specify)TotalXI Agro-forestryProduction technologiesNursery managementIntegrated Farming Systems	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0
DynamicsLeadership developmentGroup dynamicsFormation and Management of SHGsMobilization of social capitalEntrepreneurial development of farmers/youthsWTO and IPR issuesOthers (pl specify)TotalXI Agro-forestryProduction technologiesNursery managementIntegrated Farming SystemsOthers (pl specify)	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0
DynamicsLeadership developmentGroup dynamicsFormation and Management of SHGsMobilization of social capitalEntrepreneurial development of farmers/youthsWTO and IPR issuesOthers (pl specify)TotalXI Agro-forestryProduction technologiesNursery managementIntegrated Farming SystemsOthers (pl specify)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

## Training for Rural Youths including sponsored training programmes (On campus)

(B) RURAL YOUTH				
Nursery Management of Horticulture crops				
Training and pruning of orchards				
Protected cultivation of vegetable crops				
Commercial fruit production				
Integrated farming				
Seed production				
Production of organic inputs				
Planting material production				
Vermi-culture				

Mushroom Production								
Bee-keeping								
Sericulture								
Repair and maintenance of farm machinery and implements								
Value addition								
Small scale processing	1	0	31	31	0	0	0	31
Post Harvest Technology								
Tailoring and Stitching								
Rural Crafts								
Production of quality animal products								
Dairying								
Sheep and goat rearing								
Quail farming								
Piggery								
Rabbit farming								
Poultry production								
Ornamental fisheries								
Composite fish culture								
Freshwater prawn culture								
Shrimp farming								
Pearl culture								
Cold water fisheries								
Fish harvest and processing technology								
Fry and fingerling rearing								
Any other (pl.specify)								
TOTAL	1	0	31	31	0	0	0	31

## Training for Rural Youths including sponsored training programmes (Off campus)

(B) RURAL YOUTH				
Nursery Management of Horticulture crops				
Training and pruning of orchards				
Protected cultivation of vegetable crops				
Commercial fruit production				
Integrated farming				
Seed production				
Production of organic inputs				
Planting material production				
Vermi-culture				
Mushroom Production				
Bee-keeping				
Sericulture				
Repair and maintenance of farm machinery and implements				
Value addition				
Small scale processing				
Post Harvest Technology				
Tailoring and Stitching				
Rural Crafts				
Production of quality animal products				
Dairying				
Sheep and goat rearing				
Quail farming				
Piggery				

Rabbit farming								
Poultry production								
Ornamental fisheries								
Composite fish culture								
Freshwater prawn culture								
Shrimp farming								
Pearl culture								
Cold water fisheries								
Fish harvest and processing technology								
Fry and fingerling rearing								
Any other (pl.specify)								
TOTAL	0	0	0	0	0	0	0	0

# Training for Rural Youths including sponsored training programmes – CONSOLIDATED(On + Off Campus)

	-							
Nursery Management of Horticulture crops								
Training and pruning of orchards								
Protected cultivation of vegetable crops								
Commercial fruit production								
Integrated farming								
Seed production								
Production of organic inputs								
Planting material production								
Vermi-culture								
Mushroom Production								
Bee-keeping								
Sericulture								
Repair and maintenance of farm machinery and implements								
Value addition								
Small scale processing	1	0	31	31	0	0	0	31
Post Harvest Technology								
Tailoring and Stitching								
Rural Crafts								
Production of quality animal products								
Dairying								
Sheep and goat rearing								
Quail farming								
Piggery								
Rabbit farming								
Poultry production								
Ornamental fisheries								
Composite fish culture								
Freshwater prawn culture								
Shrimp farming								
Pearl culture								
Cold water fisheries								
Fish harvest and processing technology								
Fry and fingerling rearing								
Any other (pl.specify)								
TOTAL	1	0	31	31	0	0	0	31

Training programmes for Extension Personnel including sponsored training programmes (on campus)										
(C) Extension Personnel										
Productivity enhancement in field crops	2	107	14	121	0	0	0	121		
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
TOTAL	2	107	14	121	0	0	0	121		

#### Training programmes for Extension Personnel including sponsored training programmes (off campus)

(C) Extension Personnel								
Productivity enhancement in field crops								
Integrated Pest Management								
Integrated Nutrient management								
Rejuvenation of old orchards								
Protected cultivation technology								
Production and use of organic inputs								
Care and maintenance of farm machinery and implements								
Gender mainstreaming through SHGs								
Formation and Management of SHGs								
Women and Child care								
Low cost and nutrient efficient diet designing								
Group Dynamics and farmers organization								
Information networking among farmers								
Capacity building for ICT application								
Management in farm animals								
Livestock feed and fodder production								
Household food security								
Any other (pl.specify)								
TOTAL	0	0	0	0	0	0	0	0

## Training programmes for Extension Personnel including sponsored training programmes – CONSOLIDATED (On + Off campus)

(C) Extension Personnel								
Productivity enhancement in field crops	2	107	14	121	0	0	0	121
Integrated Pest Management								
Integrated Nutrient management								
Rejuvenation of old orchards								

Protected cultivation technology								
Production and use of organic inputs								
Care and maintenance of farm machinery and implements								
Gender mainstreaming through SHGs								
Formation and Management of SHGs								
Women and Child care								
Low cost and nutrient efficient diet designing								
Group Dynamics and farmers organization								
Information networking among farmers								
Capacity building for ICT application								
Management in farm animals								
Livestock feed and fodder production								
Household food security								
Any other (pl.specify)								
TOTAL	2	107	14	121	0	0	0	121

## SUMMARY OF TRAINING PROGRAMME

## On Campus summery

Thematic Area	Target No.	. Achieved	No. of Participants								
	of Courses	No. of		Other	s		sc/s	Т		Tota	1
		courses	М	F	Т	м	F	Т	М	F	т
(A) Farmers & Farm Women											
Crop Production	2	3	73	51	124	41	15	56	114	66	180
Horticulture	1	1	0	58	58	0	5	5	0	63	63
Soil Health and Fertility Management	1	2	16	127	143	0	4	4	16	131	147
Livestock production and management	1	2	23	63	86	0	8	8	23	71	94
Home Science/Women empowerment	2	6	25	213	238	3	20	23	28	233	261
Agricultural Engineering	0	1	36	0	36	0	0	0	36	0	36
Plant Protection	5	11	449	92	541	23	30	53	472	122	594
Fisheries	0	0	0	0	0	0	0	0	0	0	0
Production of Inputs at site	1	2	47	48	95	7	0	7	54	48	102
Capacity Building	0	0	0	0	0	0	0	0	0	0	0
Agro-forestry	0	0	0	0	0	0	0	0	0	0	0
Total	13	28	669	652	1321	74	82	156	743	734	1477
(B) RURAL YOUTH	1	1	0	31	31	0	0	0	0	31	31
(C) Extension Personnel	2	2	107	14	121	0	0	0	107	14	121
Grand Total	16	31	776	<b>697</b>	1473	74	82	156	850	779	1629

## **Off Campus summery**

Thematic Area	Target	Achieved	No. of Participants								
	No. of	No. of		Other	S	• •	SC/S	Г	Total		
	Courses	Courses	Μ	F	Т	Μ	F	Т	Μ	F	Т
(A) Farmers & Farm Women											
Crop Production	3	5	353	23	376	51	0	51	404	23	427
Horticulture	1	1	152	0	152	0	0	0	152	0	152
Soil Health & Fertility		3	76	20	96	10	0	10	86	20	106
Management	3										
Livestock production and		0	0	0	0	0	0	0	0	0	0
management	1										
Home Science/Women		5	0	118	118	0	24	24	0	142	142
empowerment	5										
Agricultural Engineering	1	0	0	0	0	0	0	0	0	0	0
Plant Protection	5	5	280	121	401	6	4	10	286	125	411
Fisheries	0	0	0	0	0	0	0	0	0	0	0
Production of Inputs at site	1	1	26	0	26	0	0	0	26	0	26
Capacity Building	0	0	0	0	0	0	0	0	0	0	0
Agro-forestry	0	0	0	0	0	0	0	0	0	0	0
Total	20	20	887	282	1169	67	28	95	954	310	1264
(B) RURAL YOUTH	0	0	0	0	0	0	0	0	0	0	0
(C) Extension Personnel	2	0	0	0	0	0	0	0	0	0	0
Grand Total	22	20	887	282	1169	67	28	95	954	310	1264

## Consolidated table (On & Off Campus)

	Target	Achieved	No. of Participants									
Thematic Area	No. of	No. of	(	Others	Others SC/ST					Total		
	Courses	Courses	М	F	Т	М	F	Т	М	F	Т	
(A) Farmers & Farm												
Women												
Crop Production	5	8	426	74	500	92	15	107	518	89	607	
Horticulture	2	2	152	58	210	0	5	5	152	63	215	
Soil Health and Fertility	4	5	92	147	239	10	4	14	102	151	253	
Management												
Livestock production and	2	2	23	63	86	0	8	8	23	71	94	
management												
Home Science/Women	7	11	25	331	356	3	44	47	28	375	403	
empowerment												
Agricultural Engineering	1	1	36	0	36	0	0	0	36	0	36	
Plant Protection	10	16	729	213	942	29	34	63	758	247	1005	
Fisheries	0	0	0	0	0	0	0	0	0	0	0	
Production of Inputs at site	2	3	73	48	121	7	0	7	80	48	128	
Capacity Building	0	0	0	0	0	0	0	0	0	0	0	
Agro-forestry	0	0	0	0	0	0	0	0	0	0	0	
Total	33	48	1556	934	2490	141	110	251	1697	1044	2741	
(B) RURAL YOUTH	1	1	0	31	31	0	0	0	0	31	31	
(C) Extension Personnel	4	2	107	14	121	0	0	0	107	14	121	
Grand Total	38	51	1663	979	2642	141	110	251	1804	1089	2893	

## Sponsored training programmes

	No. of				No.	of Partic	ipants			
Area of training	Cours		Genera			SC/ST		G	rand Tot	al
	es	Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and										
management										
Increasing production and	7	435	98	533	54	15	69	489	113	602
productivity of crops										
Commercial production of										
vegetables										
Production and value addition										
Fruit Plants										
Ornamental plants										
Spices crops	1	152	0	152	0	0	0	152	0	152
Soil health and fertility	2	18	110	128	0	0	0	18	110	128
management										
Production of Inputs at site	2	47	48	95	7	0	7	54	48	102
Methods of protective										
cultivation										
Integrated Disease and Pest	8	302	182	484	12	34	46	314	216	530
Management										
Total	20	954	438	1392	73	49	122	1027	487	1514
Post-harvest technology and										
value addition										
Processing and value addition										
Store grain pests and its	2	163	0	163	14	0	14	177	0	177
management for minimize the										
storage loss										
Total	2	163	0	163	14	0	14	177	0	177
Farm machinery										
Farm machinery, tools and	1	36	0	36	0	0	0	36	0	36
implements										
Others (pl. specify)										
Total	1	36	0	36	0	0	0	36	0	36
Livestock and fisheries										
Livestock production and										
management										
Animal Nutrition Management										
Animal Disease Management										
Fisheries Nutrition										
Fisheries Management										
Others (pl. specify)										
Total	0	0	0	0	0	0	0	0	0	0
Homo Science	U		0		•	0	•	U		0
Household putritional coourity	2	0	07	Q7	0	10	10	0	07	07
	2	0	60	60	0	10	10	0	57	57
economic empowerment of	2	0	00	00	U	0	U	U	00	00
women										

Drudgery reduction of women										
Others (pl. specify)										
Total	4	0	147	147	0	10	10	0	157	157
Agricultural Extension										
Capacity Building and Group	0									
Dynamics										
Others (pl. specify)	0									
Total	0	0	0	0	0	0	0	0	0	0
GRAND TOTAL	27	1153	585	1738	87	59	146	1240	644	1884

Name of sponsoring agencies involved: ATMA, DAO, FTC, Agakhan trust, NGO, GGRC, TCSRD, ANARDE foundation, BIAF

#### **Sponsored Training Programmes Details**

Sr.	Date	Discipline	Duration			No.	of	Part	icip	ant			Sponsored Agency
No.				G	ener	al	S	SC/S	т	٦	lota	I	
				М	F	Т	М	F	Т	Μ	F	Т	
1	4.01.23	Plant pro.	1	77	0	77	0	0	0	77	0	77	Agakhan trust
2	6.01.23	Plant pro.	1	53	56	109	0	0	0	53	56	109	Horti dep.
3	11.01.23	Plant pro.	1	21	0	21	0	0	0	21	0	21	GGRC
4	12.01.23	Crop Pro.	1	89	0	89	0	0	0	89	0	89	ATMA
5	18.01.23	Soil Health	1	18	20	38	0	0	0	18	20	38	ATMA
6	1.02.23	Plant pro.	1	86	0	86	14	0	14	100	0	100	Agakhan trust
7	01.02.23	Home Sci.	1	0	47	47	0	0	0	0	47	47	ATMA
8	22.02.23	Crop Pro.	1	117	3	120	8	0	8	125	3	128	Agakhan trust
9	1-3.03.23	Plant pro.	3	0	45	45	0	0	0	0	45	45	ATMA
10	1.03.23	Production of input at a site	1	0	45	45	0	0	0	0	45	45	ATMA
11	1.03.23	Home Sci.	1	0	40	40	0	10	10	0	50	50	ATMA
12	9.03.23	Soil Health	1	0	90	90	0	0	0	0	90	90	ATMA
13	18.03.23	Agri Eng	1	36	0	36	0	0	0	36	0	36	GGRC
14	24.03.23	Plant pro.	1	36	7	43	0	0	0	36	7	43	DAO
15	5.04.03	Plant pro.	1	80	59	139	6	4	10	86	63	149	Agakhan trust
16	25.04.23	Production of input at a site	1	47	3	50	7	0	7	54	3	57	DAO
17	28.04.23	Plant pro.	1	35	21	56	3	0	3	38	21	59	NSC
18	29.05.23	Plant pro.	1	70	2	72	6	0	6	76	2	78	ATMA
19	2.08.23	Plant pro.	1	43	0	43	0	0	0	43	0	43	ATMA
20	8.08.23	Plant pro.	1	35	0	35	0	0	0	35	0	35	ACT
21	21.09.23	Plant pro.	1	71	7	78	0	0	0	71	7	78	ATMA
23	25-29.09.23	Home Sci.	5	0	30	30	0	0	0	0	30	30	Horti.
24	16-20.10.23	Home Sci.	5	0	30	30	0	0	0	0	30	30	Horti
25	17.10.23	Plant pro.	1	0	20	20	0	30	30	0	50	50	ATMA
26	26.10.23	Crop Pro.	1	0	45	45	0	15	15	0	60	60	ATMA
27	9.12.23	Horti.	1	152	0	152	0	0	0	152	0	152	Horti
28	18.12.23	Crop Pro.	1	87	15	102	43	0	43	130	15	145	AFPRO
29	18-22.12.23	Home Sci.	5	0	31	31	0	0	0	0	31	31	Horti.

Details of vocational training programmes carri	ied out k	оу KVK	s for ru	ral you	uth					
		No. of Participants								
Area of training	No. of		Genera	l		SC/ST		Gr	and To	tal
	Courses	Male	Female	Total	Mal	Femal	Tota	Mal	Femal	Tota
Crop production and management					е	е	1	е	е	
Commercial fruit production										
Integrated crop management										
Organic farming										
Post harvest technology and value addition										
Value addition	1	0	31	31	0	0	0	0	31	31
Others (pl. specify)										
Total	1	0	31	31	0	0	0	0	31	31
Livestock and fisheries										
Dairy farming										
Composite fish culture										
Sheep and goat rearing										
Piggery										
Poultry farming										
Others (pl. specify)										
Total										
Income generation activities										
Vermi composting										
Production of bio-agents, bio-pesticides,										
bio-fertilizers etc.										
Repair and maintenance of farm machinery and										
implements										
Rural Crafts										
Seed production										
Sericulture										
Mushroom cultivation										
Nursery, grafting etc.										
Tailoring, stitching, embroidery, dying etc.										
Agril. para-workers, para-vet training										
Others (pl. specify)										
Total										
Agricultural Extension										
Capacity building and group dynamics										
Others (pl. specify)										
Total										
Grand Total	1	0	31	31	0	0	0	0	31	31

3.5 Extension Programmes	including activities of	FLD programmes	)

Activities	No. of	No. of farmers	No. of Extension	Total
	Programme		Personnel	
Advisory Services	4058	6158	111	6269
Diagnostic visits	7	38	10	48
Field Day	11	140	20	160
Group discussions	2	24	4	28
Kisan Ghosthi	8	2122	22	2144
Film Show	7	420	30	450
Self -help groups	1	39	3	42
Farm Science Club formation	2	22	0	22
Exhibition	4	2817	128	2945
Scientists' visit to farmers field	19	260	46	306
Farmers' seminar/workshop	9	1929	1517	3446
Method Demonstrations	32	229	7	236
Celebration of important days	5	797	75	872
Special day celebration	7	686	71	757
Lecture delivered	168	17048	960	18008
Implement/Crop Demonstration	11	978	50	1028
Collobrative training	4	270	12	282
Kisan Mela	1	10197	22	10219
Crop shibir/farmers shibir	2	1350	13	1363
Night meeting	4	261	24	285
Total	4362	45785	3125	48910

## **Other Extension Activity**

Sr. No.	Scientist Activity (give Number)	No. ofActivity
1	Electronic Media (CD./DVD)	0
2	Extension Literature	2421
3	Newspaper coverage	9
4	Popular articles	6
5	Radio Talks	5
6	TV Talks	1
7	Animal health camps (Number of animals treated)	0
8	Social Media (No. of platforms used)	3
9	Publications	3
	Total	2448

## 3.6 Online activities during year 2023

S. No.	Activit y Type	Mode of implementation (Video conferencing / Audio Conferencing / Facebook Live / YouTube Live/ Zoom/ Google meet/ Webexetc)	Title of Program	No. of Progra mmes	No. of Particip ants/ Views
Α	Farmers	s training			

1	8 08 23	Google meet	online training programme on Pink	1	35
-	0.00.25	doogle meet	bollworm management in cotton	Ŧ	55
	Total			1	25
	-			T	33
В	Farmers	scientist's interaction	programme		
	Total				
С	Farmers	seminars			
1	15.07.23	You tube live	Online kisan goshthi on IPM and IDm in	1	929
			Groundnut		
2	9.12.23	Zoom meeting on you	Online Kisan Gosthi was organized by	1	804
		tube live	KVK with collaboration International		
			Maher Supreme Council on Seed		
			production technologies		
	Total			2	1733
D	Expert le	ectures			
1	8.08.23	Google meet	Lecture delivered on IPM in cotton	1	35
	Total			1	35
Ε	Any oth	er (Pl. specify)			
1	4.05.23	Review Workshop	Review workshop of KVKs of ATARI zone-	1	92
			VIII on Newly introduced programmes in		
			KVKs and interacting meeting with DEES		
			of SALIs in the Zone		
	Total			1	92
				1	52
	Grand T	otal (A+B+C+D+E)		5	1895

## **3.7 PRODUCTION OF SEED/PLANTING MATERIAL AND BIO-PRODUCTS**

Production of seeds k	by the KVKs
-----------------------	-------------

Сгор	Name of the crop	Name of the variety	Name of the hybrid	Quantity of seed(q)	Rate/unit (Rs.)	Expected Value(Rs)	Expected Number of farmers
Cereals	Wheat	GW-496		43.84	3750	164400	54
Oilseed	Castor	GCH-9		47.17	6100	287737	0
Oilseed	Groundnut	GJG-9		11.40	17000	193800	75
Oilseed	Groundnut	GJG-32		96.90	8100	784890	147
Oilseed	Groundnut	GJG-32		39.30	8100	318330	50
Pulses	Chickpea	GJG-6		30.00	13000	390000	87
Pulses	Chickpea	GJG-6		19.25	6400	123200	61
Total						2262357	474

## Production of planting materials by the KVKs

Сгор	Name of the crop	Name of the variety	Name of the hybrid	Number	Value (Rs.)	Number of farmers
Vegetable seedlings						
Fruit						
Total						

#### **Production of Bio-Products**

Bio Products	Name of the bio-product	Quantity		Value (Rs.)	No. of Farmers
		No.	kg	]	
Bio Fertilizers	Azotobactor	120			120
	Rhizobium	50			50
	PSB	170			170
Bio-pesticide	Beauveria Bassiana		195		195
	Metarizium		50		50
	SNPV	25			25
	MDP	25			25
Bio-fungicide	Trichoderma		210		190
Total		390	455		825

N.B. \* Product was produced by JAU University and provided to farmers by KVK

#### **Table: Production of livestock materials**

Particulars of Live stock	Name of the animal /	Name of the	Number	Value (Rs.)	No. of
	bird / aquatics	breed			Farmers
Dairy animals					
Cows	Cow	Gir	2	5800	-
Buffaloes					
Calves	Calves	Gir	1	1056	-
Others (Pl. specify)					
Fisheries					
Indian carp					
Exotic carp					
Others (Pl. specify)					
Vermi Compost					
Total					

## 4. Literature Developed/Published (with full title, author & reference)

#### A. KVK News Letter ((Date of start, Periodicity, number of copies distributed etc.)

Date of start : January -2016 Periodicity : Quarterly

- , 1. Jan to Mar, 2023
  - 2. April to June, 2023
  - 3. July to Sept., 2023
  - 4. Oct. to Dec. 2023

Number of copies distributed: JAU Newsletter

### B. Literature developed/published

ltem	Title	Authors name	Numbe r of copies
Popular	Kevu raheshe varsh 2023 ma nairutynu chomasu?	AV savaliya, ND Ambaliya,	
Articles	Jano havaman khatani aagahi, Krushi prabhat, 12	KP Baraiya	
	April, 2023(17)		
	Kevu raheshe varsh 2023 ma nairutynu chomasu?	AV savaliya, ND Ambaliya,	
	Sanjog news, 17 April, 2023(6)	KP Baraiya	

	Khetima havaman agahini agtyata, Krushi	AV savaliya, ND Ambaliya,	
	prabhat, 6 August, 2023(15)	KP Baraiya	
	Jiruna vavetar pahela dhyanma rakhva jevee	AV savaliya, ND Ambaliya,	
	babto, Krushi Prabhat, 26 October, 2023(21)	KP Baraiya	
	Jiruna vavetar pahela dhyanma rakhva jevee	AV savaliya, ND Ambaliya,	
	babto, Sanjog News, 30 October, 2023(6)	KP Baraiya	
	Chhodne Jaruri eva poshak tatvona karyoni tunki	AV savaliya, ND Ambaliya,	
	samaj, Krushi Prabhat, 7 November, 2023(21)	KP Baraiya	
	Success story- Entrepreneurship Development	KP Baraiya, AK Baraiya	
	through Organic Farming & Value addition:		
	Khirsariya Rajnikantbhai (Bhupatbhai) Karsanbhai,		
	18 <sup>th</sup> Annual report 2021-22 of JAU:113-116		
	Succes story –Organic Exotic Fruit and Vegetable	KP Baraiya, AK Baraiya,	
	Cultivation with its Value addition: Jesadiya	Godhani SH	
	visnaibnai Lavjibnai: 18 <sup>°°</sup> Annuai report 2021-22		
Tochnical	OF JAU:117-121		7
roports	Annual Progress Report : 2022	Smt. A. K. Baraiya,	/
Teports		Dr. K. P. Baraiya	40
	19 <sup>44</sup> AGRESCO Report	Smt. A. K. Baraiya,	49
		Dr. K. P. Baraiya	
	39 <sup>rd</sup> ZREAC Report	Smt. A. K. Baraiya,	54
		Dr. K. P. Baraiya	
	40 <sup>th</sup> ZREAC Report	Smt. A. K. Baraiya,	54
		Dr. K. P. Baraiya	
	19 <sup>th</sup> SAC Report	Smt. A. K. Baraiya,	35
		Dr. K. P. Baraiya	
	Annual Report of ATIC(2023)	Smt. A. K. Baraiya,	1
		Dr. K. P. Baraiya	
	NMOOP & NFSM FLD result report	Mr. A. V. Savaliya,	1
		Dr. K. P. Baraiya	
	DAMU Project Annual Report	Mr. A. V. Savaliya,	1
		Dr. K. P. Baraiya	

## C. Details of Electronic Media Produced

S. No.	Type of media (CD / VCD / DVD/ Audio-Cassette)	Title of the programme	Number

## D. Details of Social Media Platforms Created / Used

S. No.	Type of social media	Title of social media	Number of Followers
	platform		/ Subscribers
1	YouTube Channel	-	-
2	Facebook page/ Account	KVK,Jamnagar	4800
3	Mobile Apps	-	-
4	WhatsApp groups	Jay Kishan	214
		KB Pragatishil Gujarat	605
		Agro Lovers	33

		l	
		Jay Sardar	47
		Vermicomposting	87
		SPNF Prakrutik kheti	82
		1 SPNF kheti Jamnagar	197
		Krish E Mahindra Groups (1 to 6)	1889
		Nagli jay kisan	107
		Uma Agro Jashapur	57
		Matrukrupa organic farming	174
		Kisan Safar Prakrutik kheti	2764
		Krushi Rushi Gujarat	171
		Agni Hotra Krushi	163
		Khetivadi Samachar	24
		Organic skill KVK IMN	20
		Farmers Group	205
		Krishi o domon IMN	205
			170
		Sadauru Organia Farm	170
			135
		Innovative Farmers	13
		B Van Vinar	1/
		ATMA Group 1 Dhrol	355
		KVK, Jamnagar Kalavad	605
		KVK, Jamnagar Dhrol	368
		KVK, Jamnagar Dhrol-2	147
		KVK, Jamnagar Jodiya	541
		KVK, Jamnagar Jodiya-2	115
		KVK, Jamnagar Jodiya-3	140
		KVK, Jamnagar Lalpur	327
		KVK, Jamnagar Lalpur-2	119
		KVK, Jamnagar Jamnagar	971
		KVK, Jamnagar Jamnagar-2	153
		KVK, Jamnagar Jamnagar-3	133
		KVK, JamnagarJamjodhpur	312
		KVK. Jamnagar Jamiodhpur-2	76
		Damu Jam Khambhaliya Taluka	57
		Damu Jam Kalvanpur Taluka	75
		Damu Jam Bhanyad Taluka	42
		Damu Jam Dwarka Taluka	27
		KVK Jampagar	57
		lashanar Samachar Group	464
		PPAG Directory New 1	976
		Goral Farm	133
		Abar Arogua ayunyod	102
		Allal Alogya ayul veu	100
		Jashaput Seva Sahkati Waliudii	127/1
-	Twitter Account	40 Groups	13/41
<b>5</b>		- Krichi Viguan Kandra, Jammanar	-
Ь	Telegram	Krishi vigyan Kendra, Jamhagar	140
	Any other (PI. Specify)		

## E. Success Story/CASE STUDIES

## 5.1 Case study/ Success story

## 1. Case study/ Success story



## PROFILE OF FARM INNOVATORS Thematic Area: Mix cropping and value addition "Date Palm and Dragon Fruit Farming through Natural Farming & Value addition"

Dr. K. P. Baraiya, Smt. A. K. Baraiya

	1. Personal Profile			2. Problem/ challenge Faced		
Nam	e of farmer	:	Jentilal Nathubhai Faldu	Jentilal Nathubhai Faldu is only 9 class		
Cont	act No.	:	9825425183	educated, having 2 Gir cow, owns 5.28 ha		
Addr	ess Res.	:	At. Jashapur, Ta. Kalavad, Dist.	land with different ordinary cropping		
			Jamnagar	pattern. He lived in village Jashapur Ta.		
Addr	ess Farming	:	As above	Kalavad of District Jamnagar.		
Age/	D.O.B.	:	01.03.1964	He faces many challenges in his life listed		
Educ	ation	:	09 Standard (10 Std Fail)	<ul> <li>Low education (9 Std.)</li> </ul>		
Land	holding	:	5.28 ha	<ul> <li>Old age (60 Years)</li> </ul>		
Crop	s grown	:	Dragon fruit, date, mango,	Labour Chryseis & high cost		
			custard apple, coriander,	Poor understanding		
			chickpea, pea, okra,	Lack of marketing		
			groundnut, wheat, cumin	High production cost		
Lives	stock	:	Cow-2 Gir breed	usages.		
Busi	ness	:	Organic Farming, Animal	<ul> <li>Resurgence of pest &amp; Disease</li> </ul>		
			keeping & marketing with	Poor soil fertility		
			Value addition	Lack of scientific technology know how		
Spec	Special		Innovative and Progressive	From starting, grow traditional cropping		
recognition			farmer	pattern <i>Viz.,</i> groundnut, cotton, wheat, he		
				due to that increase cost of cultivation and		
				reduce net profit.		
				> Before 2010, he was not in position to		
				repayment of crop insurance/loan		
3	Description	ı of	innovative practice/technology			
	> Star	ted	cow based organic farming from 20	10.		
	🎽 Кер	:20	ir cow unit			
	> Date	e pa	lm, Dragon fruit, Mango, Custard a	ople are main orchard. Coriander, chickpea, pea,		
	okra, groundnut, wheat, cumin and other vegetables cultivation as inter as well as sole crop					
	No hazardous effect of chemicals in this natural farming					
	Attr	Attractive packaging, value addition and direct marketing				
	application of <i>Jivamrut</i> and cow urine.					
	🎽 Proe	essi	ing Unit for Post-Harvest treatment	for products.		
	Aftor	<u> </u>	moletion of education be d	tarted CNC machine in Paikot CIDC for		
	Aiter	UU rina	of iron materials for two years	He has not success in this husiness. After he		
	manufactu	ring	of iron materials for two years.	He has not success in this business. After, he		

	changed the business as diamond business at Surat (1980-1982). He shifted at Rajkot again
	and started diamond business side by side he started farming in traditional way with his
	father (1982 to 2010). During 2010, he joined from Jamnagar to "Mata na Madh" (Kutch
	district). On the way, he shows date palm. Then, after contacted to many farmers of date
	palm growers, and scientist of KVK and University at Kutch and Jamnagar also. Learn date
	palm scientific farming practices from scientist of KVK Jamnagar. Finally, Department of
	Horticulture, encourage for providing subsidy for plantation of the date palm plantation.
	Distance for the 30 x 30 feet =47 plants per acre shown in two acre (94 plants @ 2500/sapling
	with 1250 subsidy. The KVK and ATMA officers inspired for value addition, as well as cow
	based organic farming. Frequent visit of Date Palm Research Station, Mundra for training
	and cultivation of practices. His family supported him for cultivation, value addition,
	marketing process for new innovations.
	After success in the date palm cultivation, plantation of dragon fruit (during 2015) (red
	variety) and custard apple (during 2017) with NMK variety.
	During 2015, first time test dragon fruit by purchasing from Rajkot fruit market. Gain
	knowledge of dragon fruit cultivation from KVK, Horticulture department and online. Know
	history of dragon fruit as well as importance for health, origin, climate requirement etc. Then
	decide to showing of dragon fruit at 2.5m X 3.7m distance = 432 pole per acre. Sapling bring
	from Kutch @ Rs.100/sapling). With the help of subsidy from Department of Horticulture,
	Jamnagar.
4	Silent features
	<ul> <li>Direct selling of the product from farm</li> </ul>
	<ul> <li>Farm in on Kalavad-Baikot high way</li> </ul>
	<ul> <li>Health and hygienic produce</li> </ul>
	<ul> <li>Best farmers award (Sardar Puraskar Award)</li> </ul>
	<ul> <li>Life member of Indian Date Palm Society</li> </ul>
	Support to other farmers for marketing
	<ul> <li>Farmers to farmers dissemination of technology</li> </ul>
5	Practical utility
	Labour saving,
	Reduce weed problem
	Reduce cost of cultivation
	High marketing price
	Consult him for value addition
	Sales pieces of plants for sapling preparation to the nursery grower.
6	Source of information
	Continuous contact with KVK, Horticulture department and AIMA also exposure visit, he
	continuous active with social media and watch different video information from different
	channels and you-tube. He attend many seminars frequently visit of research station KVK
	and other special experts.
7	Economics/Profitability of innovative practice/ technology (costs and return) (per
	intervention or area or household)
	The comparison of innovative practice and non-innovative practice is 40% more profit
	given below along with profitability.

Year	Crop	Area	Production	Total	Total	Net Incom
lear	0.00	ha.	kg/ha	Income Rs.	Cost Rs.	Rs.
2010-11	Date Palm	0.8	0	0	157500	-15750
	Vegetables & Field Crops	4.5		475000	276000	1990
	Total			475000	433500	4150
2012-13	Date Palm	0.8	0	0	25000	-250
	Vegetables & Field Crops	4.5		58000	250000	-1920
	Total			58000	275000	-2170
2013-14	Date Palm	0.8	3580	537000	35000	5020
	Vegetables & Field Crops	4.5		470000	300000	1700
	Total			1007000	335000	6720
2014-15	Date Palm	0.8	7520	1128000	45000	10830
	Vegetables & Field Crops	4.5		450000	280000	1700
	Total			1578000	325000	12530
2015-16	Dragon fruit	0.4	0	0	70000	-700
	Date Palm	0.8	7990	958800	45000	9138
	Vegetables & Field Crops	4.5		390000	260000	1300
	Total			1348800	375000	9738
2016-17	Dragon fruit	0.4	1296	453600	30000	4236
	Date Palm	0.8	13500	1350000	45000	13050
	Vegetables & Field Crops	4.5		370000	276000	940
	Total			2173600	351000	18226
2017-18	Dragon fruit	0.4	5184	1296000	30000	12660
	Date Palm	0.8	14000	1400000	45000	13550
	Vegetables & Field Crops	4.5		400000	250000	1500
	Total			3096000	325000	27710
2018-19	Dragon fruit	0.4	8640	1728000	30000	16980
	Date Palm	0.8	12500	1250000	45000	12050
	Vegetables & Field Crops	4.5		460000	220000	2400
	Total			3438000	295000	31430
2019-20	Dragon fruit	0.4	10800	1620000	30000	15900
	Date Palm	0.8	13000	1300000	45000	12550
	Vegetables & Field Crops	4.5		570000	250000	3200
	Total			3490000	325000	31650
2021-22	Dragon fruit	0.4	11664	1341360	30000	13113
	Date Palm	0.8	13000	1300000	45000	12550
	Vegetables & Field Crops	4 5	10000	650000	300000	3500
	Total			3291360	375000	29163
2022-23	Dragon fruit	04	11232	1291680	30000	12616
	Vegetables & Field Crons	۰.÷ 4 5	11252	830000	325000	5050
		т.5		2121680	325000	17656

# 8 Potential: Acceptance level, horizontal spread of innovation and number of farmer adopting

During the era of organic farming, she has appreciated for the cultivation of organic date palm, dragon fruit and custard apple cultivation and started one steps in an innovative work. His farm in on highway, then many farmers, consumers were visited his farm. He got many awards for the animal keeping and Date palm and dragon fruit cultivation. TV channels has special recorded his success story and broadcast. Many extension programmes organized at Balaji Kharek Farm. Thus, horizontal of the technology in district as well as whole state through telecasting.
#### 9. Illustrate with high quality photos with caption, graphs





#### 2. Case study/ Success story



#### PROFILE OF FARM INNOVATORS Thematic Area:

### Improvement in income through ago advisory services through District Agromet Unit under Gramin Krushi Mausam seva scheme

Shree A. V. Savaliya, Dr. K. P. Baraiya, Smt. A. K. Baraiya

Perso	nal	Profile	Problem/ challenge Faced			
Name of farmer	:	Bera Khimabhai Parbatbhai	Shree Bera Khimabhai Parbatbhai is only 12 <sup>th</sup> class educated, having 3.4 ha land with different ordinary			
Contact No.	:	9979462275	cropping pattern. He lived in very interior village Udepur,			
Address	:	At Udepur, Ta Jamjodhpur Dist Jamnagar	<ul> <li>Ta. Jamjodhpur of Jamnagar district. He faces following challenges in his life</li> <li>Low education (10<sup>th</sup> std)</li> <li>Labour chrysies &amp; high cost</li> <li>High input production cost</li> <li>Uneven weather condition during cultivation</li> <li>Unseasonal rainfall</li> <li>Poor knowledge of study weather condition/ observation in social media</li> </ul>			
Age	:	56				
Education	:	10 <sup>th</sup> pass				
Land holding	:	3.4 hactor	Description of intervention practice/technology			
Crops grown	:	groundnut, cotton, wheat, coriander, green gram	Shree Bera Khimabhai Parbatbhai is living in Udepur village of Jamjodhpur Block of Jamnagar district. He cultivated groundnut and cotton in Kharif season, chickpea and coriander			
Livestock	:	Buffalo- 3	in Rabi season and in summer gown green gram crop in his 3.4			
Business	:	Farming				
Special recognition	:		<ul> <li>hector lands. He carried out traditional farming for survival of 5</li> <li>family members. His annual income during 2018-19 was Rs.</li> <li>2,74,750 /- per year before any intervention.</li> </ul>			

Due to lack of technical knowledge on weather based agro advisory and improved crop cultivation, he was not getting the more income. Later on, after the adoption under Gramin Krushi Mausam seva (GKMS), District Agromet Unit (DAMU) project, he came in contact with Agrometeorologist and other scientists of Krishi Vigyan Kendra (KVK), Jamnagar Gujarat in the year 2020-21. Agrometeorologist and other KVK scientists provided technical knowledge on improved crop cultivation, selection of suitable crops/varieties and weather based agroadvisory services to Khimabhai. He followed Agromet Advisory services and technical guidance in his farm for growing Groundnut, Cotton crops for kharif season, Chickpea, Cumin and Coriander for rabi season and Sesame and Greengram for ssummer season. He followed advisory and planted university recommended crop varieties in his field. He also planted vegetable crops in small area for family consumption.

By adopting Agro met. Advisory services, crop diversification, he was benefited more from more different crop cultivation in same season compare to other farmers. He was benefited with enhanced

income of Rs. 8,43,863 /- during the year 2022-23. He is one of the successful farmers of the locality and well known among farmers of the village.

Economics
-----------

Name of	Land	Yield and income per Annum								
Farmers	Holding (ha.)		Before in	iterven	tion 20	18-19	Afte	er inter	ventio	n
Bera	3.4 hactor	Season	Сгор	Area (ha.)	Yield (q)	Net Income (Rs)	Сгор	Area (ha.)	Yield (q)	Net Income (Rs)
		Kharif	groundnut	2.0	30	127500	groundnut	2.5	47	239063
		Klidfii	Cotton	1.3	21	95063	Cotton	0.8	15	101250
		Rabi	Coriander, wheat 1.5	1 5	1.5 11	42188	Chickpea	1.2	27	139050
Rhimaphai Parhathhai							Cumin	0.6	5	85500
raibatbilai				1.5			Fennel	0.5	5	87000
							Coriander	01	10	55000
		Summer	Green	0.5	3	10000	Green gram	0.5	5	24500
			gram				Sesame	1.0	11	112500
		Total Inco	me			274750				843863

#### 9. Illustrate with high quality photos with caption, graphs



# F. Give details of innovative methodology or innovative technology of Transfer of Technology developed and used during the year

#### 1. Innovative methodology:

- Farmers to farmer dissemination
- Distributed printed leafletto farmers
- Farm School on farmer's field
- Kishan advisory through mobile SMS
- Film show
- Cluster frontline demonstration
- Mass campaign
- Mass media communication, whatsapp, face book, Instagram etc.

#### 2. Innovative technology transfer:

- Use of FYM to minimize the chemical fertilizer in cotton
- Use of MDP in cotton for management of pink bollworm
- Use of Trichoderma against stem rot disease of groundnut
- Use of Metarhizium against white grub in groundnut
- Use of *Beauveria* against all pest of all crops.
- Use of bio-fertilizers *viz*. PSB, Rhizobium, Azatobactor etc
- Use of pheromone trap for mass trapping as well as monitoring
- Tractor mounted sprayer
- Agri Drawn Sprayer
- Introduction of new variety i.e.GG-3, GG-5, GG-6 of Chickpea, GJG-22, GJG-23, GJG-32, GJG-41 of Groundnut, GW-463, GW-451 of wheat, GHB-1129, GHB-1231, GHB-1225 of Pearl Millet, Castor GCH-9 variety.
- Natural farming technologies
- Cultivation and aswreness of millets
- Solution Use of trap crop, pheromone trap etc. as a IPM component
- Cotton stalk shredder for recycling of farm waste
- Storage techniques, PICS bag etc.
- Kitchen gardening awareness

### G. Give details of indigenous technology practiced by the farmers in the KVK operational area which can be considered for technology development (in detail with suitable photographs)

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
1.	Chilly	Use castor as a trap crop	For controlling thrips and jassids
2	Crop husbandry	Crop rotation and mixed cropping	Control weed, and diseases management
3	u	Mixing of ash with pulse/millet grains	While storing to protect from pest
4	u	Vegetable seeds placed inside cowdung	Use for next year
5	Fertility	Application of ash	To improve soil fertility
	Management		
6	u	Sheep and goat penning	To improve soil fertility
7	u	Jivamrut	To improve soil fertility and reduce
			chemical fertilizers
7	Crop husbandry	Panchgavya	For management of pests and
			diseases of crops
8	Crop husbandry	Sheep and goat grazing	For pinkboll worm management
9	Harvesting	Harvest pulse crop in the morning hours	To reduce shattering
10	Organic farming	Jivamrut, Panchgavya, Cow based farming	Reduce the cost of cultivation as well
			as without chemical organic farming.
11	Crop husbandry	Use of light trap	For pest reduction
12	Organic farmng	Use of yellow sticki trap	For pest management

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

- a) Group discussion with the farmers
- b) Field visits
- c) Group meeting
- d) Identifying general trends in the area
- e) PRA survey

#### **Rural Youth**

- a) Filling up research-based questionnaires
- b) Identification of leader and role of rural youth in agriculture (Socio-metric method)
- c) Field visit for practical experience
- d) General discussion about district agriculture issues

#### In-service personnel

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

#### 5.2 Indicate the methodology for identifying OFTs/FLDs

For OFT :

- ➢ PRA
- Problem identified from Matrix
- Field level observations
- Farmer group discussions
- Assessment of technology
- Others if any

#### For FLD :

- 1. New variety/technology
- 2. Poor yield at farmers level
- 3. Existing cropping system :- Coriander
- 4. Technology adoption gap
- 5. 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

#### 6. LINKAGES

#### A. Functional linkage with different organizations

Sr.	Name of organization	Nature of linkage
Α	State corporation and state deptt.	
1	District Agricultural Officer, Deptt. of Agriculture, District	Joint diagnostic team
	Panchayat, Jamnagar&Devbhumi Dwarka	visit at farmer's field
2	District Rural Development Agency, Jamnagar&Devbhumi	➢ For collaborative
	Dwarka	training and
3	Deputy Director of Veterinary, Department of veterinary	demonstration
	&Animal Husbandry, Jamnagar&Devbhumi Dwarka	Programme

1		
4	Deputy Director of Horticulture, Jamnagar	Collaborative On/ Off
5	Deputy Director of Agriculture (Training), Farmer Training	campus training
	Centre, Jamnagar&Devbhumi Dwarka	programme
6	Deputy Director of Agriculture (Extension),	For providing hostel
	Jamnagar&Devbhumi Dwarka	facilities to participants
7	Asstt. Director of Fisheries, Jamnagar&Devbhumi Dwarka	and organizing
8	Range Forest Officer, Jamnagar&Devbhumi Dwarka	collaborative Krishi Mela
9	Asstt. Director of GLDC, Jamnagar&Devbhumi Dwarka	Organize all government
10	Estate Engineer, Department of Irrigation,	programmes
	Jamnagar&Devbhumi Dwarka	collelctively
11	All Taluka Development Officers, and their team at Taluka level	
12	Rajkot-Jamnagar Gramin Bank, Jamnagar&Devbhumi Dwarka	
13	Project Director, ATMA, Jamnagar&Devbhumi Dwarka	]
14	Project Director, DWDU, Jamnagar &Devbhumi Dwarka	
15	NABARD Bank	
_		
в	Private Corporation	
в 1	Territory Manager, GSFC, Jamnagar&Devbhumi Dwarka	<ul> <li>Impart training on Agril.</li> </ul>
в 1 2	Territory Manager, GSFC, Jamnagar&Devbhumi Dwarka Territory Manager, GNFC, Jamnagar&Devbhumi Dwarka	<ul> <li>Impart training on Agril.</li> <li>aspects</li> </ul>
В 1 2 3	Territory Manager, GSFC, Jamnagar&Devbhumi Dwarka Territory Manager, GNFC, Jamnagar&Devbhumi Dwarka Territory Manager, IFFCO, Jamnagar&Devbhumi Dwarka	<ul> <li>Impart training on Agril.</li> <li>aspects</li> <li>Collaborative on/off</li> </ul>
в 1 2 3 4	Territory Manager, GSFC, Jamnagar&Devbhumi Dwarka Territory Manager, GNFC, Jamnagar&Devbhumi Dwarka Territory Manager, IFFCO, Jamnagar&Devbhumi Dwarka Reliance Industries, Dept. of Green Belt, Jamnagar	<ul> <li>Impart training on Agril. aspects</li> <li>Collaborative on/off campus training</li> </ul>
В 1 2 3 4 5	Territory Manager, GSFC, Jamnagar&Devbhumi Dwarka Territory Manager, GNFC, Jamnagar&Devbhumi Dwarka Territory Manager, IFFCO, Jamnagar&Devbhumi Dwarka Reliance Industries, Dept. of Green Belt, Jamnagar Syngenta Company	<ul> <li>Impart training on Agril. aspects</li> <li>Collaborative on/off campus training programme</li> </ul>
в 1 2 3 4 5 6	Territory Manager, GSFC, Jamnagar&Devbhumi Dwarka Territory Manager, GNFC, Jamnagar&Devbhumi Dwarka Territory Manager, IFFCO, Jamnagar&Devbhumi Dwarka Reliance Industries, Dept. of Green Belt, Jamnagar Syngenta Company GGRC	<ul> <li>Impart training on Agril. aspects</li> <li>Collaborative on/off campus training programme</li> <li>Sponsor training</li> </ul>
B           1           2           3           4           5           6	Territory Manager, GSFC, Jamnagar&Devbhumi Dwarka Territory Manager, GNFC, Jamnagar&Devbhumi Dwarka Territory Manager, IFFCO, Jamnagar&Devbhumi Dwarka Reliance Industries, Dept. of Green Belt, Jamnagar Syngenta Company GGRC	<ul> <li>Impart training on Agril. aspects</li> <li>Collaborative on/off campus training programme</li> <li>Sponsor training programme</li> </ul>
B           1           2           3           4           5           6           C	Private Corporation         Territory Manager, GSFC, Jamnagar&Devbhumi Dwarka         Territory Manager, GNFC, Jamnagar&Devbhumi Dwarka         Territory Manager, IFFCO, Jamnagar&Devbhumi Dwarka         Reliance Industries, Dept. of Green Belt, Jamnagar         Syngenta Company         GGRC         NGOs	<ul> <li>Impart training on Agril. aspects</li> <li>Collaborative on/off campus training programme</li> <li>Sponsor training programme</li> </ul>
B       1       2       3       4       5       6       C       1	Private Corporation         Territory Manager, GSFC, Jamnagar&Devbhumi Dwarka         Territory Manager, GNFC, Jamnagar&Devbhumi Dwarka         Territory Manager, IFFCO, Jamnagar&Devbhumi Dwarka         Reliance Industries, Dept. of Green Belt, Jamnagar         Syngenta Company         GGRC         NGOs         Tata Chemical Society for Rural Development Foundation, At.	<ul> <li>Impart training on Agril. aspects</li> <li>Collaborative on/off campus training programme</li> <li>Sponsor training programme</li> <li>Impart training on Agril.</li> </ul>
1       2       3       4       5       6       C       1	Private Corporation         Territory Manager, GSFC, Jamnagar&Devbhumi Dwarka         Territory Manager, GNFC, Jamnagar&Devbhumi Dwarka         Territory Manager, IFFCO, Jamnagar&Devbhumi Dwarka         Reliance Industries, Dept. of Green Belt, Jamnagar         Syngenta Company         GGRC         NGOs         Tata Chemical Society for Rural Development Foundation, At.         Mithapur, TaDwarka, DistJamnagar	<ul> <li>Impart training on Agril. aspects</li> <li>Collaborative on/off campus training programme</li> <li>Sponsor training programme</li> <li>Impart training on Agril. aspects</li> </ul>
B       1       2       3       4       5       6       C       1       2	Private CorporationTerritory Manager, GSFC, Jamnagar&Devbhumi DwarkaTerritory Manager, GNFC, Jamnagar&Devbhumi DwarkaTerritory Manager, IFFCO, Jamnagar&Devbhumi DwarkaReliance Industries, Dept. of Green Belt, JamnagarSyngenta CompanyGGRCNGOsTata Chemical Society for Rural Development Foundation, At.Mithapur, TaDwarka, DistJamnagarAgakhan Rural Development Trust	<ul> <li>Impart training on Agril. aspects</li> <li>Collaborative on/off campus training programme</li> <li>Sponsor training programme</li> <li>Impart training on Agril. aspects</li> <li>Collaborative on/off</li> </ul>
B       1       2       3       4       5       6       C       1       2       3	Private CorporationTerritory Manager, GSFC, Jamnagar&Devbhumi DwarkaTerritory Manager, GNFC, Jamnagar&Devbhumi DwarkaTerritory Manager, IFFCO, Jamnagar&Devbhumi DwarkaReliance Industries, Dept. of Green Belt, JamnagarSyngenta CompanyGGRCNGOsTata Chemical Society for Rural Development Foundation, At.Mithapur, TaDwarka, DistJamnagarAgakhan Rural Development TrustANARDE foundation trust	<ul> <li>Impart training on Agril. aspects</li> <li>Collaborative on/off campus training programme</li> <li>Sponsor training programme</li> <li>Impart training on Agril. aspects</li> <li>Collaborative on/off campus training</li> </ul>
B       1       2       3       4       5       6       C       1       2       3       4	Private CorporationTerritory Manager, GSFC, Jamnagar&Devbhumi DwarkaTerritory Manager, GNFC, Jamnagar&Devbhumi DwarkaTerritory Manager, IFFCO, Jamnagar&Devbhumi DwarkaReliance Industries, Dept. of Green Belt, JamnagarSyngenta CompanyGGRCNGOsTata Chemical Society for Rural Development Foundation, At.Mithapur, TaDwarka, DistJamnagarAgakhan Rural Development TrustANARDE foundation trustMahindra Tractor, Jamnagar	<ul> <li>Impart training on Agril. aspects</li> <li>Collaborative on/off campus training programme</li> <li>Sponsor training programme</li> <li>Impart training on Agril. aspects</li> <li>Collaborative on/off campus training programme</li> </ul>
B       1       2       3       4       5       6       C       1       2       3       4       5       6       2       3       4       5	Private CorporationTerritory Manager, GSFC, Jamnagar&Devbhumi DwarkaTerritory Manager, GNFC, Jamnagar&Devbhumi DwarkaTerritory Manager, IFFCO, Jamnagar&Devbhumi DwarkaReliance Industries, Dept. of Green Belt, JamnagarSyngenta CompanyGGRCNGOsTata Chemical Society for Rural Development Foundation, At.Mithapur, TaDwarka, DistJamnagarAgakhan Rural Development TrustANARDE foundation trustMahindra Tractor, JamnagarBAIF Singach	<ul> <li>Impart training on Agril. aspects</li> <li>Collaborative on/off campus training programme</li> <li>Sponsor training programme</li> <li>Impart training on Agril. aspects</li> <li>Collaborative on/off campus training programme</li> </ul>
B         1         2         3         4         5         6         C         1         2         3         4         5         6         2         3         4         5         6	Private CorporationTerritory Manager, GSFC, Jamnagar&Devbhumi DwarkaTerritory Manager, GNFC, Jamnagar&Devbhumi DwarkaTerritory Manager, IFFCO, Jamnagar&Devbhumi DwarkaReliance Industries, Dept. of Green Belt, JamnagarSyngenta CompanyGGRCNGOsTata Chemical Society for Rural Development Foundation, At.Mithapur, TaDwarka, DistJamnagarAgakhan Rural Development TrustANARDE foundation trustMahindra Tractor, JamnagarBAIF SingachACT	<ul> <li>Impart training on Agril. aspects</li> <li>Collaborative on/off campus training programme</li> <li>Sponsor training programme</li> <li>Impart training on Agril. aspects</li> <li>Collaborative on/off campus training programme</li> </ul>

C. List special programmes undertaken by the KVK and operational now, which have been financed by State Govt./Other Agencies 2023-24

Name of the scheme	Date/ Month of initiation	Funding agency	Amount (Rs.)
Establishment of Agricultural Technology Information Centre (ATIC)	2019-20	State Govt.	1200000/-
Cluster Frontline demonstration of Oilseeds under NMOOP	2019-20	ICAR	340000/-
(B.H.:- 2704-51)			
Cluster Frontline demonstration of pulses under NSFM	2019-20	ICAR	-
(B.H.:- 2704-50)			
District Agromet Units (DAMUs) (B.H.2704-59)	2020-21	ICAR	1334034/-
Swachhta Action Plan (B.H. 2704-65)	2021-22	ICAR	24390/-
Farmer Outreach programme for Natural Farming (B.H. 2704-73)	2022-23	ICAR	354120/-
Kishan Bhagidari Prathmikta Hamari (B.H. 2704-72)	2022-23	ICAR	-

#### C. 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	Lastura deliverad	
3.	Village level training		

If yes, role of KVK in preparation of SREP of the district? :- Yes

#### Coordination activities between KVK and ATMA

S.	Programme	Particulars	No. of	No. of	Other
No.			programmes	programmes	remarks
			attended by	Organized	(if any)
01	Meetings	ACP AMC and other			
01	Weetings	AGB, AIVIC and Other	0	T	
02	Pasaarch projects	meeting			
02	Training programmor	- On/Off Compute	- 10	-	-
05		Un/ Un Campus	12	4	
04	Domonstrations		2	2	
04	Demonstrations	Niethod	Z	3	
05	Extension Drogrammas	Demonstration			
05	Extension Programmes		24		
	Extension programmes		24	9	
	Kisan mela		8	0	
	lechnology Week		0	1	
	Exposure visit		2	0	
	Exhibition		4	0	
	Soil health camps		-	0	
	Animal Health Campaigns				
	Farmers Field School (FFS)		2	0	
	Capaciy Developmen		2	1	
	Agri-preneurs development		1	1	
	Others (Pl. specify)				
06	Publications				
	Video Films				
	Books				
	Extension Literature				
	Pamphlets				
	Others (Pl. specify)				
07	Other Activities (Pl.specify)				
	Watershed approach				
	Integrated Farm Development				
	Agri-preneurs development				

#### D. Give details of programmes implemented under National Horticultural Mission

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Constraints if any
	Meeting	Meeting	-	-	-

#### E. Nature of linkage with National Fisheries Development Board

S.	Programme	Nature of linkage	Funds received if	Expenditure during the	Remarks
INO.	Training	Collaborative		-	_
		training			

#### F. Details of linkage with RKVY

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks
	Training, lecture deliver, field & diagnostic visit	Members in district level committee	-	-	-

#### G. Details of linkage with PKVY (Paramparagat Krishi VikasYojana)

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks

#### H. Details of linkage with NFSM

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks
1	Training, lecture deliver, field & diagnostic visit	Members in district level committee	-	-	-

#### I. Details of linkage with SMAF (Sub-mission on Agroforestry)

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks

#### 7. Convergence with other agencies and departments:

Period	Activity details	Place of activity	Officers present
9.02.23	SAC meeting with line Department	KVK, Jamnagar	50
24.02.23	ATMA AGB Meeting of Jamnagar	DDO, Jamnagar	15
1.03.23	DLPC under RKVY	DDO, Jamnagar	15
16.05.23	CWWG meeting by DAO(Extension), Jamnagar	Online	6
19.05.23	ATMA AMC meeting of Devbhumi Dwarka	Online (Google meet)	14
26.05.23	ATMA AGB Meeting of Jamnagar	Jilla Panchayat	19
		Bhavan, Jamnagar	
6.06.23	ATMA AMC meeting of Jamnagar	ATMA office	13
3.07.23	District level monitoring committee meeting	District Collector	8
	(DLMC) of Horticulture	Office, Jamnagar	
9.10.23	ATMA AMC meeting of Devbhumi Dwarka	Online (Google meet)	14
6.11.23	Meeting regarding Rabi Krushi Mahotsav	Collector office	26
28.12.23	Crop Weather watch group meeting	Online	16

#### 8. Innovator Farmer's Meet

SI.No.	Particulars	Details
	Have you conducted Farm Innovators meet in your district?	<del>Yes</del> / No
	Brief report in this regard	

#### 9. Farmers Field School (FFS)

S. No	Thematic area	Title of the FFS	Budget proposed in Rs.	Brief report
1	Nil	Nil	Nil	Nil

#### 10.1. Technical Feedback of the farmers about the technologies demonstrated and assessed:

- Demonstrated new variety
- > Introduction of newer crop by KVK through different FLD as well as OFT
- Information of any crop diversification get from KVK
- Frequently visit to farmers
- > Telephonic information is available 24 hours through scientist mobile
- Farmers reduce cost of production by using *Beauveria bassiana* and other bio-products
- Farmers understood the use of sulphur in oilseed crops specially in mustard through front line demonstrations in different villages
- Farmers understand the need of soil and water conservation and its future consequences in the area.
- Positive response coming from farmers about use of *Trichoderma* as seed treatment and soil application in cumin and groundnut
- Farmers are realizing the need of micronutrients and their deficiency in the different soils of the area
- > Farmers are realizing the importance of seed treatment for pest and disease management
- Positive feedback coming from farmers side about the use of Pseudomonas in coriander for disease management
- Farmers getting satisfactory results from seed treatment for pest and disease control in different crops

# **10.2.** Technical Feedback from the KVK Scientists (Subject wise) to the research institutions/universities:

#### Director (ATARI), DEE, Comptroller of University :

- Grant for the contingency for handling diferent programmes is in sufficient
- Limit of food provision during training and other cost should be increase along with stipend and transportation fascility (Approximately Rs. 500 to 1000 per head per training required)
- > Timely release of grant for successful and perfect conducting of FLD and OFT
- > Contingency grant is in sufficient (It should be minimum 30 lakhs per KVK)
- > Provide grant for farm protection wall and other infrastructure fascilities

#### Soil & Water Conservation:

- Farmers are facing the problem of malfunctioning of micro irrigation systems with poor quality irrigation water.
- Problem of soil salinity/ alkalinity is increasing day by day due to inherent salinity of soils and application of poor-quality water.
- More research is required for magnetic water softener and effects of softened water on soil after continuous use.

#### Horticulture:

- Need to be developed nematode & wilt resistant root-stock in pomegranate
- Fertigation schedule should be developed in Datepalm
- Need to be developed value addition methods for Datepalm

#### Plant Protection:

- Need to be developed more insect and disease resistant varieties under different crops
- Farmers need freshly prepared bio-agents like Beauveria, Metarhizium, Trichoderma, Pseudomonas, Paecillomycesetc.
- > Need to be effective control measures for mealybug control in cotton.
- > Need to be effective control of whitegrub in groundnut.
- > Day by day serious problem of mite endangering the crops
- > More emphasis should be given on fruit fly management in different orchards
- Research scientists should focus on discovering best management techniques for mealybug
- Also focus on para-wilt management practices in cotton
- Need to be discover new molecules of nematicides for nematode management
- Should be focus on insecticide resistance management
- Ease availability of bio-pesticides to farmers

#### Agronomy:

- > Need to be developed salinity resistant varieties of crops like groundnut and castor
- Need to be developed high yielding/ salinity tolerant varieties of pulse crops
- > Need to be farming with cow-based agriculture development for doubling the farmers income

#### 11. Technology Week celebration during 2023 : Yes

Period of observing Technology Week	: From August 21-25, 2023
Online / Offline	: Offline
Total number of farmers visited	: 402
Total number of agencies involved	: 3
Number of demonstrations visited by the fa	armers within KVK campus: 4

Technology week was celebrated at Krishi Vigyan Kendra, JAU, Jamnagar during August 21<sup>st</sup> to August 25<sup>th</sup>, 2023. The programme was Organized under the guidance of Dr. N. B. Jadav, Director of Extension Education, Junagadh Agricultural University, Junagadh. This programme was organized by Dr. K. P. Baraiya, Senior Scientist and Head, KVK, Jamnagar and KVK team with the support of ATMA and FTC Officers.

Dr. K. P. Baraiya, Senior Scientist & Head, Krishi Vigyan Kendra, Junagadh Agricultural University, Jamnagar welcomed dignitaries and house. He advice to farmers for more and more participate in the different training programs to gain in knowledge. He also gave special emphasis on use new technology for natural farming and value addition for direct marketing. He has advice to farmers for go through Natural farming and minimize the inputs and optimize the yield of crops. He welcomes to farmers for continuous visit of KVK for proper development of their agriculture.

After inaugural function, different scientists of KVK have given talk on different subjects and information from the Krishi Vigyan Kendra. The day-to-day theme was kept on different aspects for maximize overcome the problems of the farmers and KVK Scientist delivered relevant lectures on respective topics during the technology week.

Date	Theme of Technology transfer Concern So		No.	of Partici	pants
			Male	Female	Total
21.08.23	IPM for <i>Kharif</i> crop with special emphasis on pink bollworm & white grub	Dr. K. P. Baraiya	82	2	84
22.08.23	IPM, IDM and INM in Natural farming	Dr. K. P. Baraiya	68	2	70
			28	0	28
23.08.23	Women empowerment through Kitchen gardening and Livestock management	Prof. A. K. Baraiya	20	62	82
24.08.23	Value addition and awareness about the millets	Prof. A. K. Baraiya	3	65	68
25.08.23	IPM and IDM in kharif crops	Mr. N. D. Ambaliya	68	2	70
	TOTAL		269	133	402

#### Date wise Theme for Technology week

The day-to-day activities are as under. In which 402 Farmers/farm women from different blocks were participated.

#### **Other Details**

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Gosthies	6	402	<ul> <li>IPM for <i>Kharif</i> crop with special emphasis on pink bollworm &amp; white grub</li> <li>Natural farming</li> <li>Kitchen gardening,</li> <li>Weather effect on <i>kharif</i> &amp; <i>rabi</i> crop production and precaution measures</li> <li>Livestock management &amp; Natural farming</li> <li>Recent advances in Organic/Natural Farming for minimization of cost of cultivation</li> </ul>
Lectures organized	20	402	<ol> <li>Integrated Management of Pink boll worm</li> <li>Mitigation of the whitegrub problems in kharif groundnut.</li> <li>Irrigation management in crops</li> <li>Fertilizers and micro nutrients management in major Kharif crops</li> <li>Natural farming for minimization of cost of cultivation</li> </ol>

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
			<ol> <li>Awareness about Millets and value addition</li> <li>Importance Kitchen gardening</li> <li>IPM and IDM in Groundnut</li> <li>Integrated pest management in cotton</li> <li>Value addition in agriculture produce</li> <li>Feed and fodder management in</li> </ol>
			livestock 12. key points for clean milk production 13. Weather forecast for minimize the effect of storm and rainfall along with pest outbreaks.
Exhibition	4	304	Farm implements were put for exhibition cum demonstration purpose
Film show	4	304	Film Show of different technologies were presented
Fair	0	0	
Farm Visit	4	304	During farm visit farmers were demonstrate crop cafeteria of kharif crop as well as minor millets and seed production plot along with different varieties of pearl millet were visited
Diagnostic Practices	14	194	Field diagnostics of farmers at KVK farm for pest, disease and nutritional problems were identified on field. Farmer also bring their own samples for diagnosis purpose.
Supply of Literature (No.)	6	865	Different subject literature distributed
Supply of Seed (q)	0	0	
Supply of Planting materials (No.)	0	0	
Bio Product supply (Kg)	0	0	
Bio Fertilizers (q)	0	0	
Supply of fingerlings	0	0	
Supply of Livestock specimen (No.)	0	0	
Total number of farmers visited the technology week	6	402	
Number of organizations participated	4	228	

#### 12. Interventions on drought mitigation (if the KVK included in this special programme)

A. Introduction of alternate crops/varieties

State	Crops/cultivars	Area (ha)	Number of beneficiaries
Gujarat			

#### B. Major area coverage under alternate crops/varieties

Crops	Area (ha)	Number of beneficiaries
Oilseeds		
Pulses		
Cereals		
Vegetable crops		
Tuber crops		
Total		

#### C. Farmers-scientists' interaction on livestock management

State	Livestock components	Number of	No. of
		interactions	participants
Total			

#### D. Animal health camps organized

State	Number of camps	No.of animals	No. of farmers
Total			

#### E. Seed distribution in drought hit states (Seed distribution/sold by KVK)

State	Crops	Quantity (qtl)	Coverage of area (ha)	Number of
				farmers
Total				

#### F. Large scale adoption of resource conservation technologies

State	Crops/cultivars and gist of resource conservation technologies introduced	Area (ha)	Number of farmers
Total			

#### G. Awareness campaign

State	e Meetings		Gost	hies	Field days		Farmers fair		Exhibition		Film show	
	No.	No. of	No.	No. of	No.	No. of	No.	No. of	No.	No. of	No.	No. of
		farmers		farmers		farmers		farmers		farmers		farmers
Total												

#### **13. IMPACT**

Name of specific	No. of	% of	Change in i	ncome (Rs.)
technology/skill transferred	participants	adoption	Before (Rs./Unit)	After (Rs./Unit)
Sesame G.Til5	1460	26	22892	32500
Groundnut variety GJG-22	1520	39	42100	48950
Chickpea IPM & Variety GG-5	685	42	70908	92929
Castor variety GCH-9	273	61	105416	129716
Pearl Millet GHB-1231	65	12	28058	43370
Sorghum GNJ-1	25	2	55000	72000
Wheat GW-463	40	17	46351	82840
Ajwain IPM (Beauveria,	110	28	18098	28890
Trichoderma, Biofertilizers)				
Cumin IPM IDM (Beauveria,	1680	32	76800	92725
Trichoderma, Biofertilizers)				
Coriander ( <i>Beauveria</i> ,	468	14	66894	78248
Trichoderma, Biofertilizers)				
Cotton ICM (Beauveria,	680	22	69940	92460
Azadirectin, Profenophos,				
MDP, hNPV)				
Kitchen Gardening (Vegetable	540	26	4153	5637
seed kit, Beauveria)				
Storage techniques through	35	8	3964 per 100 kg	5662 per 100 kg
PICS bag			(25.8% insect	(2.76% insect
			damage)	damage)
Groundnut variety GJG-32	1150	30	70785	125230

#### A. Impact of KVK activities (Not to be restricted for reporting period).

NB: Should be based on actual study, questionnaire/group discussion etc. with ex-participants.

#### B. Cases of large-scale adoption (Please furnish detailed information for each case)

Sr.	Significant Achievements		Details of achievements
1	Natural farming promotion	:	Farmers were aware about natural farming, through adopting technology of input material produce on their own farm. Enhancing humas in the soil, recycling of farm waste, conservation of natural enemies, potential use of bio fertilizers, bio pesticides etc. use of indigenous technology for reducing cost of cultivation. Proper value addition and marketing strategies for higher earning from the valuable products.
2	Promotion of organic farming	:	Farmers were aware about organic farming, skill training conducted skill development of organic growers. Horizontal spread in more than 750 farmers have been started organic farming in the KVK jurisdiction. About 17% farmers have been started organic inputs for their pest, diseases and nutrition management, through which they reduce the cost of cultivation.

3	Employment generation through seed production	:	Skill training on "Organic Grower" and "quality seed grower was conducted and horizontal spread"						
4	Popularization of New varieties of Groundnut	:	GG-20 variety share more than 75% share of total groundnut cultivation. It was replaced by GJG-22 variety and GJG-32 by availability of seed on about 31%						
5	Spread of <i>Beauveria</i>	:	It reduces chemical pesticide drastically. Seed treatment is more effective as well as less quantity of insecticides is to be required. Aware farmers about use of <i>Beauveria bassiana</i> for the management of pink bollworm in cotton and white grub in groundnut. It also successful for the control the all type of pest infesting crops. This technology is expansion in about 350000 ha.						
6	Spread of <i>Trichoderma</i>	:	Most successful biological fungicide used in groundnut cultivation for the management of stem rot ( <i>Sclerotium rolfsii</i> ) of groundnut, wild of cumin. It reduce chemical fungicides drastically, and having fixed in soil as regular organism, therefore repeated use having augmented in soil and reduce all soil borne diseases. More than 85% farmers used. It spread over 370000 ha.						
7	Popularization	:	Sesame : G.Til3, 4; 5, 6						
	of different		Pearl Millet- GHB-558, 538, 732, 1129, 1231						
	varieties		Chickpea :- GG-5, GJG-3, GJG-6						
8	New crop introduction	:	Coriander is the fourth-major crop of <i>rabi</i> crops after cumin, wheat and chickpea. It was introduced by KVK, JAU, Jamnagar from 2012-13.						
9	The Impact of Drip Irrigation: "More Crop Per Drop"	:	<ul> <li>Increased yield, Early maturity,</li> <li>Water saving</li> <li>Fertilizer saving</li> <li>Increased Fertilizer efficiency</li> <li>Energy saving</li> <li>Labor saving</li> <li>Marginal lands can be irrigated</li> <li>Use of saline water is possible for irrigation</li> <li>Reduced weed growth</li> <li>Less problem of disease and pest</li> <li>Makes inter culture operations easy</li> <li>Keep soil condition good &amp;</li> <li>Save time</li> </ul>						
10	Re-cycling of farm waste through Bio- decomposer & Bio-Fertilizers	:	<ul> <li>Reduce cost of cultivation,</li> <li>water saving,</li> <li>fertilizers &amp; micro-nutrients saving</li> <li>growth hormones saving,</li> </ul>						

Most Successful Technology	Source of Technology with	Param	eters/Indi Adoj	cators/Dete otion or Mo	erminant st Succe	s for Lar ssful	ge Scale
Variety	Year of Released/ Developed	Area covered (ha)	No/ of Villages covered	Approx No. of farmers adopted	Highes t yield Q/ha	Net return Rs/ha	More demand in market
Pearl millet GHB- 1129	JAU, Junagadh Year of release: 2010-11	530	42	218	48.00	42300	
Coriander GC-2	SAU	3725	164	384	13.27	77350	
Green Gram GM-4	en Gram GM-4 GAU		348	687	12.00	28500	
Chickpea GJG-3	JAU	220	315	650	26.35	69500	
Chickpea GG-5	JAU, Junagadh Year of release: 2013-14	285	28	250	31.25	82000	
Chickpea GG-6	JAU	15	3	52	27.35	79500	
IDM							
Trichoderma in Groundnut	JAU, Junagadh	3540	85	650	28.00	42000	
Groundnut GJG-32	JAU, Junagadh	750	80	350	36.25	114000	
Groundnut GJG-9	JAU, Junagadh	850	152	650	31.60	97600	

#### C. Details of impact analysis of KVK activities carried out during the reporting period

N.B.:- Villages were selected for the period of 2021 to 2023 for working therefore, the detail impact will given after completion of this period.

#### 14. Kisan Mobile Advisory Services

Month	No. of SMS	No. of farmers to which SMS	No. of feedback / query on
	sent	was sent	SMS sent

Name of KVK			Type of Messages								
	Message Type	Crop	Livestoc k	Weathe r	Marke- ting	Aware -ness	Other enterpris e	Total			
	Text only										
Jamnaga	Voice only										
r	Voice & Text										
	both										
	<b>Total Messages</b>										
	Total farmers										
	Benefitted										

#### **15. PERFORMANCE OF INFRASTRUCTURE IN KVK**

#### A. Performance of demonstration units (other than instructional farm)

cı	Domonstration	Year of		De	tails of produ	ction	Amou		
No.	Units	Establi- shment	Area	Variety	produce	Quantity (No.)	Cost of inputs	Grossin come	Remark
1	Nursery Unit	2016	-	-	Planting material	-	-	-	
2	Kitchen gardening	2021	-	-	Vegetables	-	-	-	

#### B. Performance of instructional farm (Crops) including seed production

Name			De	etails of productio	n	Amou	nt (Rs.)	
Of the crop	Date of sowing	Area (ha)	Variety	Type of Produce	Qty. kg	Cost of inputs	Gross income	Remarks
Groundnut	22.06.23	1.2	GJG-9	Seed (Breeder) Haulm	1205 5580	65000	197050 41843	
Groundnut	19.06.23	7.0	GJG-32	Seed (Breeder) Haulm	10810 33175	485000	1686420 235358	
Groundnut	21.06.23	2.9	GJG-32	Seed (TF) Haulm	4460 13290	190900	346500 96000	
Wheat	28.11.22	1.6	GW- 496	Seed	4510	36500	167078	
Chickpea	21.11.22	2.0	GJG-6	Seed (Breeder)	3580	95600	413200	
Chickpea	18.11.22	1.2	GJG-6	Seed (TF)	2215	53400	134800	
Castor	7.08.23	2.0	GCH-9	Seed	4717	130000	290490	
Sorghum	23.06.23	0.5	Gundri	Green fodder	4000	6400	12000	

#### B. Performance of production Units (bio-agents / bio pesticides/ bio fertilizers etc.)

SI.	Bio Products	Name of the bio-	Qua	ntity	Amou	nt (Rs.)	No. of	Remarks
No.		product	No.	kg	Cost of inputs	Gross income	Farmers	
1	Bio Fertilizers	Azotobactor	120				120	
2		Rhizobium	50				50	
3		PSB	170				170	
4	Bio-pesticide	Beauveria Bassiana		195			195	
5		Metarizium		50			50	
6		SNPV	25				25	
7		MDP	25				25	
8	Bio-fungicide	Trichoderma		210			190	
	Total		390	455			825	

N.B. \*Product was produced by JAU University and distributed by KVK

#### D. Performance of instructional farm (livestock and fisheries production)

SI.	Name	D	etails of produ	ction	Amount (Rs.)		
No	of the animal /	Brood	Type of	054	Cost of	Gross	Remarks
	bird / aquatics	ыеец	Produce	Qty.	inputs	income	
1	Cow	Gir	Cow	3	-	6856	
			FYM	9 qtl	-	9000	
2	Vormi compost	Eicenia	Verms				
Z	vernii compost	fetida	culture	-	-	-	
			Compost	6 Qtl	-	1800	

#### E. Utilization of hostel facilities

Accommodation available (No. of beds): 25

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
January <b>2023</b>	0	0	
February 2023	92	7	
March <b>2023</b>	112	5	
April <b>2023</b>	5	3	
May <b>2023</b>	0	0	
June <b>2023</b>	5	4	
July <b>2023</b>	0	0	
August <b>2023</b>	23	1	
September 2023	23	25	
October <b>2023</b>	2	2	
November 2023	0	0	
December <b>2023</b>	17	12	
Total	279	59	

#### F. Database management

S. No	Database target	Database created

#### G. Details on Rain Water Harvesting Structure and micro-irrigation system

Amount	Expen-	Details of		Activitie		Quantity	Area		
sanctio	diture	infrastructur	No. of	No. of	No. of	Visit by	Visit by	of water	irrigated
n (Rs.)	(Rs.)	e created /	Training	Demon-	plant	farmer	official	harveste	/
		micro	programme	stration	material	S	S	d in '000	utilizatio
		irrigation	S	S	S	(No.)	(No.)	litres	n pattern
		system etc.			produce				
					d				

#### H. Performance of Nutritional Garden at KVK farm

# If Nutritional Garden developed at KVK farm/Village Level? Yes/<del>No</del> If yes,

Nutritional Garden developed at KVK farm

Area under nutritional garden (ha)	Component of Nutritional Garden	No. of species / plants in nutritional garden	No. of farmers visited
0.2	Vegetable crops	Brinjal, Indian bean, cowpea, carrot, coriander, ridge gourd, bottle gourd, fenugreek, radish, palak, okra, cluster bean,	1068
	Fruit crops		
	Others if any		

#### Nutritional Garden developed at Village Level

No. of	Component of	No. of species / plants in nutritional garden	No. of
Villages	Nutritional		farmers
covered	Garden		covered
2	Vegetable crops	Brinjal, Indian bean, cowpea, carrot, coriander,	50
		ridge gourd, bottle gourd, fenugreek, radish,	
		palak, okra, cluster bean	
	Fruit crops		
	Others if any		

#### H. Details of Skill Development Trainings organized

S.No.	Name of KVKs/SAUs/ICAR Institutes	Name	Duration (hrs)	No. of participants						
		of		SCs/STs		Others		Total		
		QP/Job								
		role		Male	Female	Male	Female	Male	Female	
1										

#### **16. FINANCIAL PERFORMANCE**

#### A. Details of KVK Bank accounts

Bank	Name of	Location	Branch	Account	Account	MICR	IFSC
account	the bank		code	Name	Number	Number	Number
With	State						
Host	Bank of						
Institute	India						
With	State	Khodiyar	SBIN	Training	10319002389	361002098	12211
KVK	Bank of	Colony,	0012211	Organizer			
	India	Jamnagar					

#### B1. Utilization of KVK funds during the year 2022-23 (Rs. in lakh) Opening Refund Fund Closing Expenditure R.E 2022-Balance as During received Balance S. during 2022-Head No. on 2022-23. during (04-01.04.2022 if any 2022-23 05+06-07) Grants for creation of Capital Assets (CAPITAL) Works A. Land B. Building i. Office building ii. Residential building iii. Minor works Equipments Information Technology Library Books and Journals Vehicles & Vessels Livestock **Furniture & Fixtures** Others **Total-CAPITAL** (1+2+3+4+5+6+7+8)**Grants in Aid - Salaries (REVENUE) Establishment Expenses** A. Salaries B. 7th CPC arrears Total-SALARIES (9) Grants in Aid - General (REVENUE) Pension & Other Retirement Benefits 11 Travelling Allowance 12 Research & Operational Exp. A. Research Expenses **B.** Operational Expenses Total - Res. & Operational Exp. **13** Administrative Expenses A. Infrastructure B. Communication C. Repairs & Maintenance i. Equipments, Vehicles & Others ii. Office building iii. Residential building iv. Minor Works D. Other

	Total - Administrative Expenses	150000	0	0	150000	150000	0
14	Miscellaneous Expenses						0
	A. HRD					0	0
Tota (10+	l Grants in Aid – General 11+12+13+14)	1269000	0	0	1269000	1269000	0
Gran Gene	nd Total (Capital + Salaries+ eral)	12562000	1186054	0	12562000	8816141	4931913

#### B2. Utilization of KVK funds during the year up to December-2023 (Rs. in lakh)

S. No.	Particulars	Sanctioned	Opening balance	Released	Expenditure	Balance
Α.	Recurring Contingencies					
1	Pay& Allowances	9951306	4931913	4700000	6613615	3018298
2	Traveling allowances	100000	0	100000	26161	73839
3	Contingencies	1450000	0	1000000	699813	300187
	TOTAL (A)	11501306	4931913	5800000	7339589	3392324
В.	Non-Recurring Contingencies	0	0	0	0	0
C.	REVOLVING FUND	0	0	0	0	0
	GRAND TOTAL (A+B+C)	11501306	4931913	5800000	7339589	3392324

#### C. Status of revolving fund (Rs. in lakh) for the three years

Year	Opening balance as on 1 <sup>st</sup> April	Income during the year	Expenditure during the year	Net balance in hand as on31 <sup>st</sup> March, 2018 of this year
1 <sup>st</sup> April 2020 to 31 <sup>st</sup>	7638808	3673303	1078597	10233514
1 <sup>st</sup> April 2021 to 31 <sup>st</sup>				
March, 2022	10233514	2765536	498894	12500156
1 <sup>st</sup> April 2022 to 31 <sup>st</sup>	12500156	2364284	7752728*	7111712
March, 2023				
1 <sup>st</sup> April 2023 to 31 <sup>st</sup>	7111712	4020638**	1679649	9452701
December, 2023	, / 12	4020030	107 5045	(1,52,71,413/-)

\* RS. 7000000/- Loan to KVK Pipaliya

\*\* Repayment of Loan (First Installment) From KVK Pipaliya Rs. 1181288/-

#### 17. Details of HRD activities attended by KVK staff during year

Name of	Designation	Title of the training programme	Institute where	Mode (On/	Dates
the staff			attended	Offline)	
Dr. K. P.	SS&H	Seminar on Jamin Janya Rog-	JAU, Junagadh	Offline	24.02.23
Baraiya		Jivatonu Sankalit Niyantran			
Dr. K. P.	SS&H	Training Programme on	JAU, Junagadh	Offline	24-26.04.23
Baraiya		"Competency Skills Enhancement			
		for Extension Professional"			
Prof. A. K.	SMS	Online Review workshop of KVKs of	Online	Offline	4.05.23
Baraiya		ATARI zone-VIII			
Shri N. D.	AO	Annual Zonal Workshop of Action	AAU, Anand	Offline	14-16.
Ambaliya		plan on KVKs of Gujarat			05.2023
Prof. A. K.	SMS	Modern Agricultural Practices of	JAU, Junagadh	Offline	6.06.23
Baraiya		<b>Coconut : Problems and Remedies</b>			

Dr. K. P.	SS&H	Modern Agricultural Practices of	JAU, Junagadh	Offline	6.06.23
Baraiya		Coconut : Problems and Remedies			
Dr. K. P.	SS&H	Annual Zonal Workshop of KVKs of	VMKV,Aurangabad	Offline	28-30.07.23
Baraiya		Gujarat, Goa and Maharashtra			
		ATARI Zone-VIII			
Dr. K. P.	SS&H	PPAG Silver Jubilee Programme and	AAU, Anand	Offline	30.09.2023
Baraiya		One day State Level Seminar and			
		Market Management			
Dr. K. P.	SS&H	Training on Natural farming	Swami dayanand	Offline	6.10.23
Baraiya			Sarasvati hall,		
			Gandhinagar		
Dr. K. P.	SS&H	"SHORT VISIT CUM TRAINING"	Gurukul,	Offline	20-22.11.23
Baraiya		under NAHEP-IDP on "natural	Kurukshetra		
		farming, practically view	Haryana		

#### 18. Details of progress in Doubling Farmers Income (DFI) villages adopted by KVKs (2021-22)

Name of the	Total No.	Key interventions	No. of farmers	Change in net		
village	of families	implemented	covered in each	income (Rs/unit)		
	surveyed		intervention	Before	After	
Gadhka	1450	Crop Diversification, new crop	25	69000	250822	
Khoja Beraja	390	& enterprises introduction,	22	110416	329295	
Nani	285	value addition, natural	22	83981	232480	
Banugar		hio-pesticides FLD OFT &				
Lothiya	291	Training, awareness	22	82426	221459	
Chandragadh	315	programmesetc	22	7509	240147	
Total	2731		113	83780	254734	

#### 19. Details of activities planned under NARI /PKVY / TSP / KKA, etc.

S.	Name of the programme	No. of	Key activities performed	No. of	No. of
No.		villages		activities	families
		adopted		carried out	covered
1	FLD, Training, Kishan Gosthi, Awareness Campaigns, Nutri Kit distributed, Field visit, Plantating material distribution,	2	Seed Distribution, awareness training, discussion, planting material districution, etc.	14	593

#### **20.** Details of Progress of ARYA Project

Name of	No of	No of	No of	No of	No of Unit	Change in income		No. Of
Enterprise	Training	Beneficiaries	Extension	Beneficiaries	established	Before	After	Groups
	Conducted		Activities					Formed

#### 21. Details of SAP (Swachchhta Action Plan)

S. No.	Types of major Activity conducted- Swachhta Pakhwada, Cleaning, Awareness Workshop, Miccobial based Agricultural Waste Management by Vermicomposting etc.	No. of Programmes conducted	No. of Participants
1	Cleaning, awareness on vermicomposting and wate management	3	114

# 22. Please include any other important and relevant information which has not been reflected above (write in detail).

#### 22.1 ESTABLISHMENT OF AGRICULTURAL TECHNOLOGY INFORMATION CENTRE (ATIC) (YEAR-2023).

1.	Name of the Scheme	:	Establishment of Agricultural Technology Information Centre (ATIC)						
			B.H. 12572-03						
2.	Location of the scheme	:	Krishi Vigyan Kendra, JAU, Jamnagar						
3.	Officer-in charge of the	•••	Senior Scientist & Head, KVK, JAU, Jamnagar						
	scheme								
4.	Objectives	•••	Single window system for technology dissemination.						
			> Formulation of FIGs as a process of innovativeness in technology						
			dissemination.						
			<ul> <li>Feedback from users to the research centre</li> </ul>						
5.	Justification of the scheme	•••	> The JAU has generated a large number of technologies in different						
			disciplines of agriculture and all allied subjects.						
			> Location specific technology and assessment technologies and						
			demonstration of the technological models is planned.						

#### A. Details of ATIC:

Sr.	Name of	Name of host	Name of ATIC	Telephone No.			E mail addroca	
No.	ATIC	institute	manager	Office	Fax	Mobile	E-mail address	
1.	KVK, Jamnagar	Junagadh Agricultural University, Junagadh	Senior Scientist & Head	(0288) 2710165	(0288) 2710165	+919427980032	kvkjamnagar@ gmail.com	

#### **B.** Details of farmers visit:

Sr. No.	Name of ATIC	Name of ATIC Purpose of visit			
1.	KVK, Jamnagar	For agricultural information	1756		
2.	KVK, Jamnagar	Technology Products	365		

#### C. Facilities in ATIC (Operational):

Sr. No.	Particulars	No. of ATIC
1.	Reception counter	No
2.	Exhibition/technology measures	Yes
3.	Touch screen kiosk	No
4.	Cafeteria	Yes
5.	Sales counter	Yes
6.	Farmers feedback register	Yes
7.	Others (museum)	Yes

#### A. Technologies Information Provided

A. 1. Details technology information, category of information:

Name of ATIC	Information Category	No. of farmers benefitted	Variety	Pest Manage ment	Disease manage ment	Agro tech.	SWT	РНТ	АН	HS
KVK,	1. Kisan call centre SMS	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Jamnagar	Phone calls	3601	284	1667	1182	23	46	30	61	308
	2. Video shows	450	0	84	70	0	75	0	75	146

3. Letters received	Nil								
4. Letter replied	Nil								
5. Training to famers/ technocrats/ students	415	0	121	109	0	0	63	75	97
6. Others	Nil								

#### A. 2. Publication (Print & Electronic media):

Sr. No.	Name of ATIC	Particular	No. sold/ distributed	Revenue generate	No. of farmers benefitted	
1.		Books/Booklet	Nil	Nil	Nil	
2.		Tech. bulletin	74	Nil	74	
3.		Tech. inventory	Nil	Nil	Nil	
4.		CDs	Nil	Nil	Nil	
5.	KVK, JAU,	DVDs	Nil	Nil	Nil	
6.	Jamnagar	Leaflet	771	Nil	285	
7.		Folders	1650	Nil	523	
8.		Video films	Nil	Nil	Nil	
9.		Audio CDs	Nil	Nil	Nil	
10.		Others (Poster)	Nil	Nil	Nil	

#### B. Technology products provided:

Sr.	Particular	Quantity	Unit of	Value in Rs.	No. of farmers
No.	i di ticalai	Quantity	quantity	value in tist	benefitted
1.	Seeds				
(i)	Groundnut (GJG-32)	99.65	Quintal	557122	147
(ii)	Groundnut (GJG-9)	75.41	Quintal	122158	75
(iii)	Groundnut (GJG-32) (TF)	19.69	Quintal	155565	50
(iv)	Wheat (GW-496)	45.10	Quintal	167078	54
(v)	Chickpea(GJG-6)(TF)	22.15	Quintal	134800	61
(vi)	Chickpea(GJG-6)	35.80	Quintal	413200	87
(vii)	Castor (GCH-9)	47.17	Quintal	290490	-
2.	Planting materials	-	-	-	-
3.	Live stock(Vermi compost)	-	-	-	-
4.	Poultry birds	-	-	-	-
5.	Bio Product		Quintal	-	-
	1. Beauveria bassiana	195	Kg	-	195
	2. Trichoderma	210	Kg	-	190
	3. PSB	170	Li.	-	170
	4. Rhizobium	50	Li.	-	50
	5. Azotobactor	120	Li.	-	120
	6. Metarhizium	50	Kg	-	50
	7. SNPV	25	Li.	-	25
	8. MDP	25	Tube	-	25

#### C. Technology services provided:

Name of ATIC	Particulars	No. of farmers benefitted
KVK, Jamnagar	Soil and Water testing	0
	Plant diagnosis	79
	Services to line department	121
	Others (Group Meeting, Field Visit, Field Day)	1390

#### D. FLD conducted:

Sr.	Month	Crop/Inputs	Season	Variety	No. c Dem	of Farme onstrat	ers/ ion
NO.					Others	SC/ST	Total
1.		Castor Variety GCH-9	Kharif	GCH-9	20	0	20
2.	January to December	<b>Cumin</b> PSB, Azotobacter, Beauveria, Trichoderma	Rabi	GC-4	20	0	20
3.	2023	<b>Coriander</b> PSB, Azotobacter, Beauveria, Trichoderma	Rabi	GC-2	20	0	20
				Total	60	0	60

#### E. Short term training courses:

				No. of			No. of SC/ST		
Sr. No.	Month	Title of the Training	Ber	neficia	aries	Be	enefi	iciaries	
			Μ	F	Total	Μ	F	Total	
1	_	Store grain pests and its management for minimize the storage loss	86	0	86	14	0	14	
2		Pest management in natural farming	21	0	21	0	0	0	
3	3         4           4         5           5         January to           6         December           2023         7           8         1	Insect pest control in rabi season crop	27	6	33	0	0	0	
4		Fruit and Vegetable preservation	0	25	25	0	0	0	
5		Income generation activity for empowerment of women	0	42	42	0	0	0	
6		House hold food security by kitchen gardening and nutrition gardening	0	25	25	0	0	0	
7		Management of Pinkbollworm in Cotton & white grub in Groundnut and other Kharif crops	76	0	76	0	0	0	
8		Processing and value addition in Spices and Other agriculture produce	0	58	58	0	5	5	
9		Nutritional Value of Millets and design of low/Minimum cost diet	0	25	25	0	5	5	
		Tota	210	181	391	14	10	24	

#### F. Extension Activity:

Sr.	Nome of Activity		No	lo. of Participant			
No.	Name of Activity	NO. OF ACTIVITY	М	F	Т		
1	Group meeting, Kishan goshthi,						
	Night meeting etc.	9	270	56	326		
2	Field visit/Field Day	8	97	7	104		
3	Literature	15	169	650	819		
4	Plant Diagnosis services	7	50	91	141		

#### 22.2 District Agro-Met Units (DAMU) under Gramin Krishi Mausam Sewa (GKMS) Scheme(2023)

India Meteorological Department (IMD), Ministry of Earth Sciences (MoES), Govt. of India, NewDelhi is operating an integrated Agro-Meteorological Advisory Service (AAS) at district level, inIndia, which represents a small step towards agriculture management in rhythm with weatherand climate variability leading to weather proofing for farm production. Under AAS, needs offarming community was defined through ascertaining information requirement of diverse groups of endusers. The Indian Council of Agricultural Research (ICAR) and India Meteorological Department (IMD) have jointly expanding Agromet network or District level to support sub-district/ Block level advisory service through a network of 660 District Agromet units (DAMUs) in KVKs premises under GraminKrishiMaushamSewa (GKMS). The target of the project is to provide Agromet services directly to all the farming households.

Agrometeorological Advisory Service (AAS) are being rendered by India Meteorological Department (IMD), Ministry of Earth Sciences (MoES) under GraminKrishiMausamSewa (GKMS) scheme as a step towards contribution to weather information-based crop/livestock management strategies and operations dedicated to enhancing crop production.

#### Objectives

- To improvise the district level Agromet Advisory Services (AAS) so as to deliver crop and location specific AAS to farmers at block level.
- To design optimum observatory network for issuance of village level advisories
- To establish District Agromet Units as nodal centre for catering to needs of agriculture services.
- To provide advisory bulletins through last mile connectivity to farmers with personalized agromet advisory services.
- To extend the weather based advisory service to like livestock, grazing of farm feed etc.

#### District Agromet Unit in KVK, Jamnagar

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

#### Activity of DAMU at KVK Jamnagar

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

#### Weather Bulletin

Preparation of weather bulletin on the basis of medium range forecast provided by IMD supported by GFS model for the block wise weather bulletin. Preparation of advisory is in both Bothlanguage (English and Local language) twice in a week on Tuesday and Friday. There are several weather parameter forecast received from IMD i.e. Rainfall, Maximum temperature, Minimum temperature, Relative humidity (maximum and minimum), Cloud cover, Wind speed and direction. The bulletin preparation is for main crops of Jamnagar district i.e. Cotton, Groundnut, Wheat, Pigeon pea, Cumin, Chickpea, Castor, Sesame, Pearl millet etc.Regularly Prepare weather advisory bulletin District wise and Block wise of Jamnagar district. We also prepare Devbhumi Dwarka District Block wise weather bulletin on date 04<sup>th</sup> May, 2021.

#### Number of Weather Bulletin prepare from Jan-Dec, 2023

	No. of Bulletins
District Name	
Jamnagar	103

Jamnagar District Block name	
Dhrol	103
Jamjodhpur	103
Jodiya	103
Jamnagar	103
Kalavad	103
Lalpur	103
Total No. of Block wise Weather Bulletin	618

Devbhumi Dwarka District Block name	
Kalyanpur	103
Khambhaliya	103
Okhamandal	103
Total No. of Block wise Weather Bulletin	309

#### Dissemination of weather bulletin.

Individually these bulletins are sending to farmers group by short message service (mKisan portal), and by social media by making farmers Whatsapp groups, Facebook page, mKishan Portal, Telegram channel, JAU website and IMD Agrimet Website (http://imdagrimet.gov.in/)etc.

#### Number of farmers Connected

Particular	No. of contact farmers
Whatsapp Group-19	4110
KVK Facebook page	4800 followers
KVK Telegram Channel	120 Subscribers

#### **Farmer Awareness Programmes**

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

Different kind of activity organized by KVK, JAU, Jamnagar under DAMU Project During - 202	23
a) Farmers Awareness Program (FAP)	

s			Approx. No.		
No.	Date	Village	llage Block District		of Farmers/ Participant
1	05-01-2023	Mansar	Dhrol	Jamnagar	33
2	06-01-2023	Matva	Jamnagar	Jamnagar	30
3	18-01-2023	Luvarsar	Jamjodhpur	Jamnagar	6
4	17-02-2023	Kolva	Khambhadiya	Devbhumi Dwarka	125
5	22-02-2023	Moti Khokhari	Khambhadiya	Devbhumi Dwarka	128
6	03-05-2023	Matva	Jamnagar	Jamnagar	8
7	04-05-2023	Satapar	Jamjodhpur	Jamnagar	42
8	11-05-2023	Sarvaniya	Kalavad	Jamnagar	8
9	06-07-2023	Sonvadiya	Jamjodhpur	Jamnagar	26
10	07-07-2023	daldevadiya	Jamjodhpur	Jamnagar	26
11	27-07-2023	KVK, Jamnagar	Jamnagar	Jamnagar	75

12	02-08-2023	Jayva	Dhrol	Jamnagar	26
13	31-08-2023	Khengarka	Dhrol	Jamnagar	26
14	24-09-2023	KVK, Jamnagar	Jamnagar	Jamnagar	65
15	27-09-2023	Theba	Jamnagar	Jamnagar	280
16	30-09-2023	Dwarka	Dwarka	Devbhumi Dwarka	350
17	26-10-2023	KVK, Jamnagar	Jamnagar	Jamnagar	60
18	30-10-2023	FTC hall	Jamnagar	Jamnagar	25
19	24-11-2023	latipar	dhrol	Jamnagar	539
20	04-12-2023	KVK, Jamnagar	Jamnagar	Jamnagar	50
21	15-12-2023	Haripar	Lalpur	Jamnagar	30
22	22 18-12-2023 Jamjodhpur Jamjodhpur Jamn		Jamnagar	161	
	2119				

#### b) Meghdoot Application Popularization Activity

c			Approx. No.		
S. No.	Date	Village	Block	District	of Farmers/ Participant
1	04-01-2023	Juvangadh	Khambhadiya	Devbhumi Dwarka	2
2	18-01-2023	Luvarsar	Jamjodhpur	Jamnagar	6
3	13-04-2023	Jashapar	Jodiya	Jamnagar	6
4	04-05-2023	Satapar	Jamjodhpur	Jamnagar	20
5	27-07-2023	KVK, Jamnagar	Jamnagar	Jamnagar	75
	109				

#### c) AWS Site Visit

S. No.	Date	Location	Approx. No. of Farmers/ Participant
1	17-01-2023	KVK, Jamnagar	74
2	23-02-2023	KVK, Jamnagar	19
3	01-03-2023	KVK, Jamnagar	83
4	22-08-2023	KVK, Jamnagar	45
	То	tal	221

#### d) Field Visit

c			Approx. No.				
s. No.	Date	Village	Block	District	of Farmers/ Participant		
1	04-01-2023	Juvangadh	Khambhadiya	Devbhumi Dwarka	2		
2	18-01-2023	Luvarsar	Jamjodhpur	Jamnagar	6		
3	13-04-2023	Jashapar	Jodiya	Jamnagar	5		
4	03-05-2023	Matva	Jamnagar	Jamnagar	6		
5	07-07-2023	daldevadiya	Jamjodhpur	Jamnagar	2		
6	31-08-2023	Khengarka	Dhrol	Jamnagar	26		
7	13-09-2023	Jamdudhai	Jodia	Jamnagar	7		
8	20-10-2023	Falla	Jamnagar	Jamnagar	4		
9	25-11-2023	latipar	dhrol	Jamnagar	20		
	Total						

#### 22.3 MGMG\_Annual Progress report for the year 2023

#### Detailed Progress: Krishi Vigyan Kendra, JAU, Jamnagar

Table 1- Institut	te Summary
-------------------	------------

No. of Team	No. of	No. of	No. of	No. of	Bench Mark Survey conducted
of Scientists	Scientists	Villages	Blocks	Districts	(No. of villages)
2	6	10	8	2	10

#### Table 2 - Activities organized under MGMG

Activities organised by ICAR Institutes/ SAUs under MGMG

S.	Name of activity	No. of activities	No. of farmers participated
No.		conducted	& benefitted
1.	Visit to village by teams	22	306
2.	Interface meeting/ Goshthies	20	314
3.	Training organized	8	246
4.	Demonstrations conducted	17	42
5.	Mobile based advisories	117	796
6.	Literature support provided (No)	24	388
7.	Awareness created (No)	33	639
	Total	241	2731

#### Table-3: Facilitation under MGMG

2	Facilitation	2023				
		Name of technology	Area	Farmers		
	i) Technology		(ha)	Benefitted (No)		
	(No)	ICM in Coriander	8	20		
		(Beauveria, Trichoderma, Azotobactor, PSB)				

#### 22.4 Out Scaling of Natural farming

Different kind of activity organized by KVK, JAU, Jamnagar under Natural farming during – 2023 **A. FLD conducted:** 

Sr. No.	Crop	Inputs	Season	Area in ha.	No. of Farmers/ Demonstration
1.	Wheat	Jivamrut preparation kit (Plastic drum, gram floor, jaggary, bucket)	Rabi-2022-23	6.4	16

#### **Results of Growth Parameters**

Sr.	Crop	Parameters	Results		
No.			Natural Farming	Non-Natural Farming	
1	Wheat	Yield	30.64 q/ha	45.12 q/ha	
		Seed / spike	42-44	45-55	
		No. of spikelet	17-21	18-21	
		Days of maturity	105-120	103-124	
		1000 seed wt.	45-48 g	42-46 g	

#### **Results of Economic Parameters**

Crops	Farming Situation	Average Yield (q/ha)	Percentage Increase in yield over Non- natural Farming (%)	Total cost of cultivation (Rs/ha)	Gross returns (Rs/ha)	Net returns (Rs/ha)	B:C ratio (Rs/ha)
Crop	Natural	30.64	-32.05	25350	130223	104873	5.20
Wheat	Farming						
	Non-Natural	45.12	-	40875	112805	71930	2.77
	Farming						

#### Farmers/KVKs Feedback

Natural Farming	Non-Natural Farming
Good market value	Normal market value
Low production cost	high production cost
Chemical less having no hazardous effect	Found hazardous effect
Safe for environment	Environment, soil pollution
Pest and disease attack	Lower pest and disease attack
Reduce risk for water lodging condition	High risk for water lodging condition
High water storage in soil	water stress is high
Earth worms increase in soil. hence	Down soil fertility
increase soil fertility.	

#### **B. Extension Programmes**

Sr. No.	Name of Activity	Total Program	р	articipate	
	Name of Activity		Μ	F	Total
1	Training Program	15	798	292	1090
2	Method Demonstration	1	28	46	74
3	Seminar	2	129	90	219
4	Kishan Gosthi	3	310	10	320
5	Lecture Delivered	33	4356	2717	7073
	Total	54	5621	3155	8776

#### C. Expenditure Details (Rs. In Lakhs)

Financial Year	Opening Balance	Fund received from ATARI Pune	Total fund available	Expenditure	Closing Balance
	А	В	C=A+B	D	E=A-D
2022-23	0	2.66	2.66	2.66	0
2023-24	0	3.5412	3.5412	3.5412	0

#### 22.5 OTHER PROGRAMME CELEBRATED

#### **Scientific Advisory Committee meeting**

The 19<sup>th</sup> Scientific Advisory Committee Meeting of KVK, JAU, Jamnagar was held on February 9, 2023 at Training Hall, KVK, Jamnagr for the presentation and reviewing of the work done byt eh KVK and actin plan fr the next coming year. The meting was chaired by Dr. V. P. Chovatiya, Hon'ble Vice Chancellor, JAU, Junagadh. Dr. H. M. Gajipara, Director of Extension Education, JAU, Junagadh and other officers of line department and Progressive farmers remained present in this meeting. Total 50 members remain present in the ensuring meeting. Dr. K. P. Baraiya, Senior Scientist & Head, presented the Annual Progress Report (2022) and Action Plan (2023) of KVK Jamnagar. Scientists of KVK Jamnagar presented their subject wise report and action plan. Committee members promoted and appreciated their work and given valuable suggestions.

#### PM Kisan Samman Nidhi Programme 27<sup>th</sup> February, 2023

Krishi Vigyan Kendra, Junagadh Agricultural University, Jamnagar celebrated PM Kisan Samman Nidhi Programme on 27<sup>th</sup> February, 2023. In this celebration organized awareness Camp on PM Kisan samman nidhi yojna and also joint live telecast programme of Hon'ble PM. Total 65 participants participated in this programme.

#### **INTERNATIONAL MILLET YEAR**

On the occasion of International Year of Millet (IYoM) 2023, KVK, Jamnagar celebrate different programs throughout the year 2023. Awareness carried out on IYoM by different activity *viz.*, lectures, seminar and training on nutritional value of millets and its health benefit, value addition and processing in millets, scientific farming of millets and different minor millets etc. Farmers aware through participation in exhibition on IYoM, field visit by farmers at KVK, farmers visit to Museum for live specimens of millets and participation in millet mela at Taluka level. Thus, Krishi Vigyan Kendra, JAU, Jamnagar conducted 33 programs with 7230 participants.

Sr. No.	Name of Activity	Total Program	Total participant
1	Training Program	4	152
2	Crop Demonstration	3	168
3	Farmers Seminar	2	274
4	Exhibition	2	1261
5	Lecture Delivered	17	1387
6	Participation in Millets mela	5	3988
	Total	33	7230

#### **INTERNATIONAL WOMEN DAY**

KVK Jamnagar celebrated "International women day" on 3<sup>th</sup> March, 2023 at Vinjalpar, Ta. Jamkhambhaliya Dist. Devbhumi Dwarka with collaboration of Agakhan Rural Development Trust. In this programme female sarpanch, members of Gram Panchayat and 141 farm women remain present. In this programme discussed about success farm women stories. Smt. A. K. Baraiya, Scientist (Home Science) KVK, JAU, Jamnagar aware farmwomen about value addition, marketing, input production in natural farming, vermi-composting, decomposing, animal keeping, kitchen gardening, preservation of fruit and vegetable etc. were promoted. Thus, women farmers were motivated by different kind of activities to sustain in the society.

#### **WORLD WATER DAY**

KVK Jamnagar celebrated "World Water Day" on March 22, 2023 at Singach Village of Lalpur Taluka of Jamnagar in collaboration with the ACT and BIAF. The programme was organized at

demonstration filed of BIAF. Dr. K. P. Baraiya, Senionr Scientist & Head, KVK, JAU, Jamnagar delivered the talk on water conservation, reduction of runoff losses during the rainy season, use of micro irrigation for efficient use of water, well recharge. Field demonstrations were shown at the field level on micro irrigation, rain gun, sprinkler system, porous pipes for orchard and crops shown area. They are also aware about soil reclamation and reduction of salty water problems by BIAF & ACT. Total 105 farmers remain present in this programme

#### Hon'ble Prime Minister's interaction with beneficiaries of schemes live telecast programme

Under the Pradhan Mantri Kishan Samman Nidhi Yojana organized farmer Awareness Program at Krishi Vigyan Kendra, Jamnagar on 27<sup>th</sup> july,2023. In which 14th installment was released in the account of farmers under Pradhan Mantri Kishan Samman Nidhi Yojana by Hon'ble Prime Minister Shri Narendrabhai Modi from Nagor District of Rajasthan and this program live broadcasted at Krishi Vigyan Kendra, JAU, Jamnagar. 79 farmers and farm women participated and shown the programme.

#### **ICAR FOUNDATION DAY**

The ICAR is celebrating 95<sup>th</sup> ICAR Foundation day and technology day throughout the India, as a part of this event, Krishi Vigyan Kendra, JAU, Jamnagar celebrated on 17<sup>th</sup>, July 2023. During the ICAR foundation day arrangement of Farmers seminar on awareness about the millets, its health benefits and value addition in millets under the celebration of International millet year 2023. Lecture delivered on natural farming in saline and alkaline soils, remedies for IPM, IDM, INM in low land water logged soil. Farmers were also discussion on the remedies for saline and alkaline soil reclamation. Different technologies were demonstrated for the *kharif* crop production, water harvesting and conservation of water, increase water use efficiency were the key discussion points during the celebration. Total 163 farmers were actively participated in the seminar

#### PARTHENIUM AWARENESS WEEK 16.08.23 TO 22.08.23

KVK, Jamnagar organized awareness programme during the Parthenium awareness week on August 16 to 22, 2023. In this celebration farmers were made aware of Parthenium grass at kvk campus and village level. Removal of Parthenium by all staff members with the help of kvk labours in KVK campus and kept surrounding area Parthenium free. Total 174 farmers and 22 kvk members were participated and to create awareness about skin diseases caused by parthenium and its remedy

#### **TECHNOLOGY WEEK CELEBRATION ( 21<sup>ST</sup> TO 25<sup>TH</sup> AUGUST, 2023)**

KVK, JAU, Jamnagar celebrated technology week during August 21<sup>th</sup> to 25<sup>th</sup>, 2023 at KVK, Jamnagar. In which total 402 farmers/farm women from different blocks were participated and also provided extension literature to each participant. During this week, different theme were kept for transfer of newer technology to the farmers as IPM and IDM for *Kharif* crops, Kitchen gardening & Awareness about the Millets, Concept of Organic and Natural Farming, Livestock management and Special emphasis given on white grub management of groundnut. They also encourage for Natural farming as well as reduction of cost of cultivation with improved technologies. Special emphases were given on value addition of agricultural produce for more income generation. Many demonstration, Kisan goshthi and video shows were arranged during this programme.

#### National Nutrition Month Celebration (1<sup>st</sup> to 30<sup>th</sup> September)

KVK, Jamnagar organized nutrition awareness programmes under the celebration of National Nutrition Month on16<sup>th</sup> September, 25<sup>th</sup> September and 30<sup>th</sup> September 2023. In these programmes discussion on Balance diet, Nutri cereal role in human health and their product, Importance of Kitchen gardening and information about micro greens. 30 vegetable seed kit distributed to women. Total 160 women participated and aware about nutrition through this celebration.

#### **MAHILA KISAN DIVAS**

Mahila kisan Divas celebrated by Krishi Vigyan Kendra, Jamnagar on 15<sup>th</sup> October, 2023. On this day organized farm women training at KVK Campus on Nutritional value of Millets and design of low /minimum cost diet. During this training to aware farm women from different millets and discussion on processing of millets, How to include millets in daily diet and health benefits of millets. Practical were also done on Bajra biscuits, *Juvar* biscuits and ragi cake . Total 30 farm women actively participated and visited to KVK demo unit and museum in this celebration.

#### **SWACHHTA ABHIYAN**

Cleanliness office building and surrounding as a part of cleanliness drive on the occasion of Gandhi Jayanti by the KVK staff. Total 16 staff member participated in this cleanliness drive.

#### **RABI KRUSHI MAHOTSAV (24-25.11.2023)**

During the Rabi Krushi Mahotsav in Dwarka Organized kishan gosthi and arrangement of stall by KVK Scientist. The main attraction on Millets samples for awareness on millets and information of rabi crop cultivation through natural farming in the exhibition. 260 farmer and 290 farm women visited the KVK stall. Shri Pabubha Manek, MLA, Dwarka remain present and inspired farmers for natural farming and millets cultivation. At the end of programme, he visited all the stall and encourage participants of exhibition. Different dignitaries from taluka level also remain present in the Krishi Mahotsav.

#### WORLD SOIL HEALTH DAY (5.12.2023)

Krishi Vigyan Kendra, JAU, Jamnagar organized a Kishan Gosthi with collaboration of AFPRO, Lalpur on occasion of the celebration of "world soil health day" on 5<sup>th</sup> Dec 2023 at village Lalpur, Ta. Lalpur, Di. Jamnagar, around 188 farmers are participated in this programme, Dr. K. P. Baraiya, Senior Scientist & Head, KVK, Jamnagar focused on Natural farming, soil reclamation, vermi compost, biofertilizer, re-cycling of farm waste and improvement of soil fertility by using natural resources, then after farmers gives good response and positive discussion about standing crops at the end of program. Farmers were also aware about good quality cotton production system, their difficulties about cotton production and how to overcome were the hot discussion during the programme. related literatures were distribution to the farmers.

#### **Student Training**

RAWE Student training programme organized at KVK, JAU, Jamnagar from the Amreli, Junagadh, College of Horticulture, Junagadh etc as per the below details

Student training programme organized for gain first hand practical and theoretical experience on the functioning the Krishi Vigyan Kendra. 20 Students from economics department, College of Agriculture, JAU, Junagadh visited to KVK under READY & AIA programme during November 19 to December 3, 2023. In this training discussion about various activities carried out by the Krishi Vigyan Kendra and shared direct experiences from scientist and the way of working with the farmers.

One student from College of agriculture, Sardarkrushinagar Dantiwada Agricultural University, Sardar Krushinagar come for Training programme under RAWEP during 13 to 16, September, 2023 at KVK, Jamnagar

Student from Agricultural Polytechnic college, Sidsar visited to KVK Jamnagaron the day 28 february, 2023. 34 student visited at KVK Campus. During this training programme student were informed about various activities carried out by the Krishi Vigyan Kendra

#### **Drone demonstration**

Agri drone demonstration organized in different villages of Jamnagar district during 2023 with the collaboration of Department of Farm Power and Machinery, College of Agricultural Engineering and Technology, Junagadh Agriculture University, Junagadh.

Date	Village	No. of farmers
20.10.23	Falla ta Jamnagar	27
20.10.23	Jayva Ta Dhrol	12
20.10.23	Vankiya Ta Dhrol	13
21.10.23	APMC Bhanvad	419
15.12.23	Lothiya ta Jamnagar	14
15.12.23	Haripar ta Lalpur	35
15.12.23	Lalpur	36
9.02.24	Sumari Ta Jamnagar	27
9.02.24	Dhudasiya Ta Jamnagar	22
9.02.24	Bharatpur Ta Jamnagar	31
9.02.24	Nandpur Ta Jamnagar	26
	Total	662

#### **22.6 DETAILS OF SOIL, WATER AND PLANT ANALYSIS**

Details	No. of Samples	No. of Farmers	No. of Villages	Amount to be realized	
Soil Samples					
Water					
Plant	79	65	36	-	
Manure					
Others					
(pl.specify)					
Total	79	65	36	-	

#### **22.7 DIGRITORIES VISITED KVK, JAU, JAMNAGAR**

Different dignitaries visited at Krishi Vigyan Kendra, JAU, Jamnagar during the 2023 year.

Sr. No.	Name & Designation of dignitaries	Date o visit
1	Dr. V.P. Chovatiya, Vice Chancellor, JAU, Junagadh visited to KVK,	9.02.23
	Jamnagar	
2	Dr. H. M. Gajipara, DEE, JAU, Junagadh visited to KVK, Jamnagar	9.02.23
3	Dr. V.P. Chovatiya, Vice Chancellor, JAU, Junagadh visited to KVK,	11.07.23
	Jamnagar	
4	Dr. R. B. Madariya Sir, Director of Research, JAU, Junagadh visited to	11.07.23
	KVK, Jamnagar	
5	Smt. Punamben Maadam, MP, Jamnagar visited to KVK during rabi	24.11.2023
	Krishi Mahotsav	
6	Shri. Mulubhai Bera, MLA, Khambhaliya visited to KVK during rabi	24.11.2023
	Krishi Mahotsav	
8	Rivaba Jadeja, MLA, Gujarat visited during rabi Krushi Mahotshav	24.11.2023

## **APR SUMMARY**

(Note: While preparing summary, please don't add or delete any row or columns)

#### **1. Training Programmes**

Clientele	No. of Courses	Male	Female	<b>Total participants</b>
Farmers & farm women	23	564	414	978
Rural youths	1	0	31	31
Extension functionaries	2	107	14	121
Sponsored Training	23	1133	570	1703
Vocational Training	2	0	60	60
Grand Total	51	1804	1089	2893

#### **2.** Frontline demonstrations

Enterprise	Area(ha)	No. of Farmers	Units/Animals
Oilseeds	48	120	
Pulses			
Cereals	8	20	
Vegetables	2	5	
Other crops	30	75	
Hybrid crops			
Total	88	220	
Livestock & Fisheries			
Other enterprises	4	60	
Total			
Grand Total	92	280	

#### 3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
Technology Assessed			
Crops	3	9	9
Livestock			
Various enterprises	1	5	5
Total	4	14	14
Technology Refined			
Crops	1	3	3
Livestock			
Various enterprises			
Total	1	3	3
Grand Total	5	17	17

#### 4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	4362	48910
Other extension activities	2445	
Tota	l 6807	48910
### 5. Mobile Advisory Services

		Type of Messages						
Name of KVK	Message Type	Сгор	Live stoc k	Weathe r	Marke- ting	Aware- ness	Other enterprise	Total
	Text only							
Jamna	Voice only							
gar	Voice & Text							
	both							
	Total							
	Messages							
	Total farmers							
	Benefitted							

### 6. Seed & Planting Material Production

	Quintal/Number	Value Rs.
Seed (q)	287.86	2262357
Planting material (No.)	0	0
Bio-Products (kg)	845	0
Livestock Production (No.)	0	0
Fishery production (No.)		

## 7. Soil, water & plant Analysis

Samples	No. of Samples	No. of Beneficiaries	Amount realized (Rs.)
Soil			
Water			
Plant	79	65	-
Total	79	65	

### 8. HRD and Publications

Sr. No.	Category	Number
1	Workshops	7
2	Conferences	0
3	Meetings	11
4	Trainings for KVK officials	3
5	Visits of KVK officials	4
6	Book published	0
7	Training Manual	8
8	Book chapters	0
9	Research papers	0
10	Lead papers	0
11	Seminar papers	0
12	Extension folder	0
13	Proceedings	1
14	Award & recognition	0
15	On-going research projects	1
16	Newsletter	4
17	Technical reports	8

## ANNEXURE –I PROCEEDING OF THE 20<sup>th</sup> SCIENTIFIC ADVISORY COMMITTEE MEETING OF KRISHI VIGYAN KENDRA, JAU, JAMNAGAR HELD ON FEBRUARY 3, 2024

The Twentieth Scientific Advisory Committee meeting of Krishi Vigyan Kendra, JAU, Jamnagar was held at Training Hall, Krishi Vigyan Kendra, JAU, Jamnagar on February 3, 2024. The meeting was chaired by Hon'ble Vice Chancellor, Junagadh Agricultural University, Junagadh, Dr. V. P. Chovatia Sir.

The following members were remained present in the meeting.

Sr. No.	Name & Designation	Position
1	Dr. V. P. Chovatia, Vice Chancellor, Junagadh Agricultural University, Junagadh.	Chairman
2	Dr. N. B. Jadav, Director of Extension Education, Junagadh Agricultural University,	Member
	Junagadh	
3	Dr. D. S. Hirpara, Research Scientist, MDFRS, Junagadh Agricultural University,	Member
	Targhadia (Rajkot).	
4	Dr. K. D. Mungra, Research Scientist (Millet), Main Millet Research Station, Junagadh	Member
	Agricultural University, Jamnagar- 361 006.	
5	Shri R. S. Gohel, District Agricultural Officer, District Panchayat, Jamnagar	Member
6	Su. Shri M. M. Kathad, Project Director, District Watershed Development Unit, District	Member
	Rural Development Agency, old collector office, Lal Bungalow Compound, Jamnagar.	
7	Dr. Tejas Shukla, Dy. Director of Animal Husbandry, Dept. of Veterinary & Animal	Member
	Husbandry, District Panchayat, Jamnagar	
8	Dy. Director of Horticulture, Seva Sadan-IV, Nr. Ganesh Cold Storage, Jamnagar Rajkot	Member
	Highway, Jamnagar	
9	Shri B. M. Agath, Dy. Director of Agriculture (Extension), Labunglow, Nr. Trazery	Member
10	office, Jamnagar	Manahar
10	Mr. Kiran Bhimsen, Dy. Director of Agriculture, Farmers Training Centre, Air Force	wember
11	Mr. Jignesh Rambharoliya Dy. Project Director, Agricultural Technology Management	Mombor
11	Agency (ATMA) Air Force Road Onn Digiam Mill Jampagar	WEITDEI
12	Patel Sir, District Manager, State Bank of India, Lead Bank, Lal hunglow, Jamnagar	Member
13	Mukesh Patel Research Officer Fisheries Research Station Okha	Member
14	Progressive farmer (Horticulture) : Diliphai Gordhanbhai Sanghani, At - Hadmatiya	Member
	TaJamnagar, Dist Jamnagar	Weinber
15	Progressive farmer (Horticulture) : Vishalbhai Jeshadiya, At Anandpar, Ta Kalavad,	Member
	Dist Jamnagar	
16	Progressive farmer (Organic) : Shri Vallabhbhai Nathabhai Bunsha, At. Sarvaniya, Ta.:-	Member
	Kalavad, Dist. Jamnagar	
17	Progressive farmer (Organic): Shri Hiteshbhai Harilal Dhamsaniya, At. Falla, Ta.:-	Member
	Jamnagar, Dist. Jamnagar	
18	Progressive farm women (G): Smt. Chetnaben Dilipbhai Sanghani, At Hadmatiya, Ta	Member
	Jamnagar, Dist Jamnagar	
19	Progressive farm women (G): Smt. Payalben Mansukhbhai Kantariya, At Arablush,	Member
	Ta.:-Lalpur, Dist. Jamnagar.	
20	Progressive farm women (G): Smt. Chandrikaben Kantilal Gadara, At Arablush, Ta.:-	Member
	Lalpur, Dist. Jamnagar.	

21	Shri Vithalbhai Sakhiya, Extension Education Council member (JAU, Junagadh), At.	Invitee
	Devpar, Ta. Kalavad, Dist. Jamnagar	
22	Prof. Anjanaben K. Baraiya, Scientist (Home Science), KVK, JAU, Jamnagar	Member
23	Dr. H. C. Chhodvadia, Associate Extension Educationist, DEE Office, JAU, Junagadh	Invitee
24	Mr. N. D. Ambaliya, Agri. Officer, KVK, Jamnagar	
25	Daxabahen Patel, Agri. Officer, KVK, Jamnagar	Invitee
26	Mr. A. V. Savaliya, SMS, (Agromet), DAMU, KVK, Jamnagar	Invitee
27	Dr. M. M. Talapda, Associate Research Scientist, Pearl Millet Research Station, JAU,	Invitee
	Jamnagar	
28	Progressive farmer (Invitee), Sanghani Dilipbhai Hirabhai, At. Theba, Ta. & Dist.	Invitee
	Jamnagar	
29	Progressive farmer (Invitee), Khatrani Baldevbhai Bhanjibhai, At. Kanpur (Latipur), Ta.	Invitee
	Dhrol, Dist. Jamnagar	
30	Progressive farmer (Invitee), Ambabhai Panchabhai Ramani, At. Kanpur (Latipur), Ta.	Invitee
	Dhrol, Dist. Jamnagar	
31	Progressive farmer (Invitee), Jayantibhai Naranbhai Parsana At. Haripar, Ta. Lalpur,	Invitee
	Dist. Jamnagar	
32	Progressive farmer (Invitee), Bharatbhai Jesadiya At Anandpar, Ta Kalavad, Dist	Invitee
	Jamnagar	
33	Progressive farmer (Invitee), Shri Kishorbhai Laljibhai Pedhadiya, Progressive Farmer,	Invitee
	At. Sumari, Ta. & Dist. Jamnagar	
34	Progressive farmer (Invitee), Dangariya Mukeshbhai D. At. Kalavad Dist. Jamnagar	Invitee
35	Dr. K. P. Baraiya, Senior Scientist & Head, Krishi Vigyan Kendra, Junagadh Agricultural	Member
	University, Jamnagar	Secretary

Dr. K. P. Baraiya, Senior Scientist & Head, Krishi Vigyan Kendra, Junagadh Agricultural University, Jamnagar welcomed the dignitaries and all the members of the SAC members highlighted the brief achievements of the centre. Dignitaries on the dais are welcomed by words and flowers. Dignitaries inaugurated the meeting by lighting the lamp.

Dr. K. P. Baraiya, Senior Scientist & Head, Krishi Vigyan Kendra, JAU, Jamnagar presented the action taken report of the minutes of the 19<sup>th</sup> SAC meeting, Annual Progress Report (January to December-2023) and Action Plan (January to December- 2024). All KVK scientists Dr. K. P. Baraiya (Plant Protection), Smt. A. K. Baraiya, Scientist (Home Science), Shri A. V. Savaliya (SMS- DAMU) presented the Annual progress report for 2023 (Jan.–Dec. 2023) and the Annual action plan for the disciplines of Plant protection, Home science, Animal Husbandry, Horticulture, Crop production and Agri. Engineering respectively.

### The following suggestions were made by SAC members during the meeting:

- 1. To record feedback from farmers for extra benefit of fortified variety of Bajara FLD.
- 2. Awareness among farmers about special characters of GHB-1129, i.e. heat tolerance, rich in Fe & Zn content.
- 3. To carry out base line survey of newly adopted villages and also conduct impact study of old villages.
- 4. Mentioned word "intervention" instead of refinement in OFT.
- 5. To calculate the total expenses for the respective FLD and mention in action plan.
- 6. Promote Agri-drawn technology and natural farming among farmers.

- 7. To provide Agro-met Advisory to extension functionaries for betterment of farmers usage.
- 8. To create awareness of use of decomposer for recycling of farm waste (wheat straw) instead of wheat straw burning.
- 9. To document and prepare video/documentary film of success stories of KVK progressive farmers with the help of AGRISNET Studio.
- 10. To create awareness on natural farming among farmers.
- 11. To create awareness about ajwain gripe water through value addition training programme.

Dr. N. B. Jadav, Director of Extension Education, JAU, Junagadh appreciated collaborative work of KVK with all line departments of the district. He emphasized to keep record of successful farmers and give exposure to them.

Dr. V. P. Chovatia sir, Hon'ble Vice Chancellor, Junagadh Agricultural University, Junagadh, on his chairmen's remarks.

On his chairmen's remarks, Dr. V. P. Chovatia sir, Hon'ble Vice Chancellor, Junagadh Agricultural University, Junagadh, he appreciated collective efforts done by scientists, stake holders, ginners, agro input dealers for the minimize the damage of pink boll worm in cotton. He also advised to farmer's community to come forwards and take necessary steps towards management of white grubs. He remarked the alarming situation of infestation of fruit fly in fruit and vegetables and emphasized to create awareness among the farmers. He also noted the importance of soil health management as well as use of high-tech implements and agri-drawn in farming.

The meeting ended with a vote of thanks by Smt. A. K. Baraiya, Scientist (Home Science), Krishi Vigyan Kendra, JAU, Jamnagar.

Member Secretary, SAC & Senior Scientist & Head KVK, JAU, Jamnagar Director of Extension Education, Junagadh Agricultural University Junagadh

Chairman, SAC KVK, JAU, Jamnagar & Vice-Chancellor Junagadh Agricultural University, Junagadh

### Annexure II

## **Front line Demonstration Beneficiaries Farmers List** Summer Sesame (GujTil. 5) CFLDs under NMOOP Scheme (2022-23)

(Inputs: Guj. Til. 5 seed – 1kg, Trichoderma-2.0 kg, Beauveria – 2 kg, Azotobacter -1 lit, PSB-1 lit)

1Rathod Valabhai GovindbhaiSataparJamjodhpurJamnagar97375423142Vadhre Bahadurbhai MurubhaiSataparJamjodhpurJamnagar96877442543Herma Govindbhai KhengarbhaiSataparJamjodhpurJamnagar96827442544Nakum Kananbhai RatnabhaiSataparJamjodhpurJamnagar99626606576Dodya Karshanbhai NathabhaiSataparJamjodhpurJamnagar99047425467Parmar Avrindbhai NathabhaiSataparJamjodhpurJamnagar99984294818Parmar Vajubhai NathabhaiSataparJamjodhpurJamnagar968274110110Jala Ranjitbhai LakhabhaiSataparJamjodhpurJamnagar96626065712Parmar Baveshbhai AjmalbhaiSataparJamjodhpurJamnagar972537046513Vadhre Hiteshbhai HajabhaiSataparJamjodhpurJamnagar972537046514Parmar Hajabhai ThobhanbhaiSataparJamjodhpurJamnagar972537046515Dodiya Rajeshbhai BabubhaiSataparJamjodhpurJamnagar958313840016Ulva Jesabhai KishabhaiSataparJamjodhpurJamnagar955813840017Parmar Rameshbhai AbhubhaiSataparJamjodhpurJamnagar955813840016Ulva Jesabhai KishabhaiSataparJamjodhpurJamnagar94247437017Parmar Kamshbhai AbhubhaiSataparJamjodhpurJamnagar942473370118Parmar Kishorbh	Sr. No.	Name	Village	Taluka	District	Cell Number
2Vadhre Bahadurbhai MurubhaiSataparJamjodhpurJamnagar96877442543Herma Govindbhai KhengarbhaiSataparJamjodhpurJamnagar63546654684Nakum Kananbhai RatnabhaiSataparJamjodhpurJamnagar97248723045Jala Lakhabhai ValabhaiSataparJamjodhpurJamnagar99626606576Dodiya Karshanbhai NathabhaiSataparJamjodhpurJamnagar9984294818Parmar Arvindbhai NathabhaiSataparJamjodhpurJamnagar9987425469Gholetar Savdashbhai ValabhaiSataparJamjodhpurJamnagar96226005710Jala Ranjitbhai LakhabhaiSataparJamjodhpurJamnagar972527061012Parmar Pahveshbhai ManibhaiSataparJamjodhpurJamnagar972531614913Vadhre Hiteshbai HajabhaiSataparJamjodhpurJamnagar972531645115Dodiya Rajeshbai AbnubhaiSataparJamjodhpurJamnagar972537046515Dodiya Rajeshbai AbnubhaiSataparJamjodhpurJamnagar972537046516Uva Jesabhai KishabhaiSataparJamjodhpurJamnagar972537046517Parmar Rameshbhai AbnubhaiSataparJamjodhpurJamnagar972537045518Dodiya Rajeshbhai AbnubhaiSataparJamjodhpurJamnagar972537046519Darmar Hareshbhai GandabhaiSataparJamjodhpurJamnagar972537046510Uya Jesabhai K	1	Rathod Valabhai Govindbhai	Satapar	Jamjodhpur	Jamnagar	9737542314
3Herma Govindbhai KhengarbhaiSataparJamjodhpurJamnagar63546654684Nakum Kananbhai RatnabhaiSataparJamjodhpurJamnagar97248723045Jala Lakhabhai ValabhaiSataparJamjodhpurJamnagar99624660576Dodiya Karshanbhai NathabhaiSataparJamjodhpurJamnagar99047425467Parmar Arvindbhai NathabhaiSataparJamjodhpurJamnagar9928725284579Gholetar Savdashbai ValabhaiSataparJamjodhpurJamnagar966266065710Jala Ranjitbhai LakhabhaiSataparJamjodhpurJamnagar966266065711Parmar Jayeshbhai AjmalbhaiSataparJamjodhpurJamnagar972527061012Parmar Bhaveshbhai ManibhaiSataparJamjodhpurJamnagar972537046513Vadhre Hiteshbhai HajabhaiSataparJamjodhpurJamnagar972537046514Parmar Hajabhai ThobhanbhaiSataparJamjodhpurJamnagar95813840015Dodiya Rajeshbai BabubhaiSataparJamjodhpurJamnagar958313840016Uku Jasabhai KishabhaiSataparJamjodhpurJamnagar9624743370118Parmar Kishorbhai KhodabhaiSataparJamjodhpurJamnagar96187268821Dodiya Rajeshbai GandabhaiSataparJamjodhpurJamnagar96187268822Parmar Kishorbhai KhodabhaiSataparJamjodhpurJamnagar962474372420Rajput	2	Vadhre Bahadurbhai Murubhai	Satapar	Jamiodhpur	Jamnagar	9687744254
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5Jala Lakhabhai ValabhaiSataparJamjodhpurJamnagar96626606576Dodiya Karshanbhai NathabhaiSataparJamjodhpurJamnagar99047425467Parmar Avindbhai NathabhaiSataparJamjodhpurJamnagar99287257284579Gholetar Savdashbhai ValabhaiSataparJamjodhpurJamnagar966266065710Jala Ranjitbhai LakhabhaiSataparJamjodhpurJamnagar966266065711Parmar Jayeshbhai AjmalbhaiSataparJamjodhpurJamnagar972537141912Parmar Bhaveshbhai ManibhaiSataparJamjodhpurJamnagar972537046513Vadhre Hiteshbhai HajabhaiSataparJamjodhpurJamnagar972537046514Parmar Hajabhai ThobhanbhaiSataparJamjodhpurJamnagar972537046515Dodiya Rajeshbhai BabubhaiSataparJamjodhpurJamnagar952537046516Ulva Jesabhai KishabhaiSataparJamjodhpurJamnagar952537046517Parmar Rameshbhai AbhubhaiSataparJamjodhpurJamnagar942743370118Parmar Kishorbhai KhodabhaiSataparJamjodhpurJamnagar942743370118Parmar Kishorbhai KhodabhaiSataparJamjodhpurJamnagar9426451938019Parmar Kishorbhai KhodabhaiSataparJamjodhpurJamnagar974611429220Rajput Govindlal KhengarlalSataparJamjodhpurJamnagar962474648022 <t< td=""><td>4</td><td>Nakum Kananbhai Ratnabhai</td><td>Satapar</td><td>Jamjodhpur</td><td>Jamnagar</td><td>9724872304</td></t<>	4	Nakum Kananbhai Ratnabhai	Satapar	Jamjodhpur	Jamnagar	9724872304
6Dodiya Karshanbhai NathabhaiSataparJamjodhpurJamnagar99047425467Parmar Arvindbhai NathabhaiSataparJamjodhpurJamnagar99984294818Parmar Arvindbhai NathabhaiSataparJamjodhpurJamnagar99257284579Gholetar Savdashbhai ValabhaiSataparJamjodhpurJamnagar966266065710Jala Ranjitbhai LakhabhaiSataparJamjodhpurJamnagar972572845712Parmar Jayeshbhai AjmalbhaiSataparJamjodhpurJamnagar972531614913Vadhre Hiteshbhai MaibhaiSataparJamjodhpurJamnagar972537046514Parmar Bhaveshbhai ManibhaiSataparJamjodhpurJamnagar972537046515Dodiya Rajeshbhai BabubhaiSataparJamjodhpurJamnagar952813840016Ulva Jesabhai KishabhaiSataparJamjodhpurJamnagar942743370118Parmar Kameshbhai AbhubhaiSataparJamjodhpurJamnagar942743370118Parmar Kashorbhai KhodabhaiSataparJamjodhpurJamnagar9427432020Rajput Govindlal KhengarlalSataparJamjodhpurJamnagar9427432021Dodiya Rudabhai MulubhaiSataparJamjodhpurJamnagar96287060022Parmar Hareshbhai GandabhaiSataparJamjodhpurJamnagar962874648023Dodiya Rudabhai RajabhaiSataparJamjodhpurJamnagar96247468024Parmar Har	5	Jala Lakhabhai Valabhai	Satapar	Jamjodhpur	Jamnagar	9662660657
7Parmar Arvindbhai NathabhaiSataparJamjodhpurJamnagar99984294818Parmar Vajubhai NathabhaiSataparJamjodhpurJamnagar97257284579Gholetar Savdashbhai ValabhaiSataparJamjodhpurJamnagar966276065711Parmar Jayeshbhai AjmalbhaiSataparJamjodhpurJamnagar972527061012Parmar Bhaveshbhai ManibhaiSataparJamjodhpurJamnagar972537061013Vadhre Hiteshbhai HajabhaiSataparJamjodhpurJamnagar982892809614Parmar Hajabhai ThobhanbhaiSataparJamjodhpurJamnagar972537046515Dodiya Rajeshbhai BabubhaiSataparJamjodhpurJamnagar95513840016Ulva Jesabhai KishabhaiSataparJamjodhpurJamnagar942743370118Parmar Rameshbhai GandabhaiSataparJamjodhpurJamnagar942743370119Parmar Hareshbhai GandabhaiSataparJamjodhpurJamnagar942743370120Rajput Govindlal KhengarlalSataparJamjodhpurJamnagar96087268821Dodiya Rudabhai MulubhaiSataparJamjodhpurJamnagar960474648022Parmar Jagdishbai ArjanbhaiSataparJamjodhpurJamnagar960474648023Dodiya RudabhaiSataparJamjodhpurJamnagar971465948426Bera Markhibhai RajabhaiSataparJamjodhpurJamnagar971465948426Bera Ashmitaben	6	Dodiya Karshanbhai Nathabhai	Satapar	Jamjodhpur	Jamnagar	9904742546
8Parmar Vajubhai NathabhaiSataparJamjodhpurJamnagar97257284579Gholetar Savdashbhai ValabhaiSataparJamjodhpurJamnagar968774110110Jala Ranjitbhai LakhabhaiSataparJamjodhpurJamnagar96226065711Parmar Jayeshbhai AjmalbhaiSataparJamjodhpurJamnagar972527061012Parmar Bhaveshbhai AjmalbhaiSataparJamjodhpurJamnagar972537045013Vadhre Hiteshbhai HajabhaiSataparJamjodhpurJamnagar972537046514Parmar Hajabhai ThobhanbhaiSataparJamjodhpurJamnagar972537046515Dodiya Rajeshbhai BabubhaiSataparJamjodhpurJamnagar972537046516Ulva Jesabhai KishabhaiSataparJamjodhpurJamnagar942743370118Parmar Rameshbhai AbhubhaiSataparJamjodhpurJamnagar942743370119Parmar Hareshbhai GandabhaiSataparJamjodhpurJamnagar94051742420Rajput Govindlal KhengarlalSataparJamjodhpurJamnagar96087268824Parmar Isdishbai ArjanbhaiSataparJamjodhpurJamnagar960187268825Parmar Isdishbai RajabhaiSataparJamjodhpurJamnagar96127464825Parmar Kishorbhai KhodabhaiSataparJamjodhpurJamnagar96127468824Parmar Jagishbai RajabhaiSataparJamjodhpurJamnagar971465948426Bera Ma	7	Parmar Arvindbhai Nathabhai	Satapar	Jamjodhpur	Jamnagar	9998429481
9Gholetar Savdashbhai ValabhaiSataparJamjodhpurJamnagar968774110110Jala Ranjitbhai LakhabhaiSataparJamjodhpurJamnagar966266065711Parmar Jayeshbhai AjmalbhaiSataparJamjodhpurJamnagar972527061012Parmar Bhaveshbhai ManibhaiSataparJamjodhpurJamnagar972531614913Vadhre Hiteshbhai HajabhaiSataparJamjodhpurJamnagar98892809614Parmar Hajabhai ThobhanbhaiSataparJamjodhpurJamnagar972537046515Dodiya Rajeshbai BabubhaiSataparJamjodhpurJamnagar955813840016Ulva Jesabhai KishabhaiSataparJamjodhpurJamnagar942743370118Parmar Rameshbhai AbhubhaiSataparJamjodhpurJamnagar942743370118Parmar Kishorbhai KhodabhaiSataparJamjodhpurJamnagar942743370118Parmar Kishorbhai KhodabhaiSataparJamjodhpurJamnagar942743370118Parmar Kishorbhai KhodabhaiSataparJamjodhpurJamnagar94274370120Rajput Govindlai KhengarlalSataparJamjodhpurJamnagar9426451938021Dodiya Rudabhai MulubhaiSataparJamjodhpurJamnagar706108809923Dodiya Balubhai RudabhaiSataparJamjodhpurJamnagar960187268824Parmar Kishorbhai KhodabhaiSataparJamjodhpurJamnagar990187268825Par	8	Parmar Vajubhai Nathabhai	Satapar	Jamjodhpur	Jamnagar	9725728457
10Jala Ranjitbhai LakhabhaiSataparJamjodhpurJamnagar966266065711Parmar Jayeshbhai AjmalbhaiSataparJamjodhpurJamnagar972537061012Parmar Bhaveshbhai AjmalbhaiSataparJamjodhpurJamnagar972537061013Vadhre Hiteshbhai HajabhaiSataparJamjodhpurJamnagar98992809614Parmar Hajabhai ThobhanbhaiSataparJamjodhpurJamnagar972537046515Dodiya Rajeshbhai BabubhaiSataparJamjodhpurJamnagar972537045516Ulva Jesabhai KishabhaiSataparJamjodhpurJamnagar94274370117Parmar Rameshbhai AbhubhaiSataparJamjodhpurJamnagar94274370118Parmar Hareshbhai GandabhaiSataparJamjodhpurJamnagar941455742410Rajput Govindlal KhengarlalSataparJamjodhpurJamnagar9462465938022Parmar Jagdishbai ArjanbhaiSataparJamjodhpurJamnagar96087208023Dodiya Balubhai KhodabhaiSataparJamjodhpurJamnagar960187268824Parmar Kishorbhai KhodabhaiSataparJamjodhpurJamnagar96187268825Parmar Hareshbhai GandabhaiSataparJamjodhpurJamnagar96247648026Bera Markhibhai RajabhaiSataparJamjodhpurJamnagar96247648824Parmar Kishorbhai KhodabhaiSataparJamjodhpurJamnagar9716598425Parmar J	9	Gholetar Savdashbhai Valabhai	Satapar	Jamjodhpur	Jamnagar	9687741101
11Parmar Jayeshbhai AjmalbhaiSataparJamjodhpurJamnagar972527061012Parmar Bhaveshbhai ManibhaiSataparJamjodhpurJamnagar972531614913Vadhre Hiteshbhai HajabhaiSataparJamjodhpurJamnagar98892809614Parmar Hajabhai ThobhanbhaiSataparJamjodhpurJamnagar972537046515Dodiya Rajeshbhai BabubhaiSataparJamjodhpurJamnagar955813840016Ulva Jesabhai KishabhaiSataparJamjodhpurJamnagar942743370117Parmar Rameshbhai AbhubhaiSataparJamjodhpurJamnagar942743370118Parmar Kishorbhai KhodabhaiSataparJamjodhpurJamnagar942743370119Parmar Hareshbai GandabhaiSataparJamjodhpurJamnagar704611429221Dodiya Rudabhai MulubhaiSataparJamjodhpurJamnagar706108809923Dodiya Balubhai ArjanbhaiSataparJamjodhpurJamnagar960187268824Parmar Hareshbhai GandabhaiSataparJamjodhpurJamnagar962474648025Parmar Hareshbhai GandabhaiSataparJamjodhpurJamnagar9790973226Bera Markhibhai RajabhaiSataparJamjodhpurJamnagar9790973227Bera Rajabhai RajshibhaiSataparJamjodhpurJamnagar97990273538Singhal Tapubhai MesurbhaiSataparJamjodhpurJamnagar99790273539Bera Ashmitabe	10	Jala Ranjitbhai Lakhabhai	Satapar	Jamjodhpur	Jamnagar	9662660657
12Parmar Bhaveshbhai ManibhaiSataparJamjodhpurJamnagar972531614913Vadhre Hiteshbhai HajabhaiSataparJamjodhpurJamnagar989892809614Parmar Hajabhai ThobhanbhaiSataparJamjodhpurJamnagar972537046515Dodiya Rajeshbhai BabubhaiSataparJamjodhpurJamnagar955813840016Ulva Jesabhai KishabhaiSataparJamjodhpurJamnagar942743370117Parmar Rameshbhai AbhubhaiSataparJamjodhpurJamnagar942743370118Parmar Kishorbhai KhodabhaiSataparJamjodhpurJamnagar942743370119Parmar Kishorbhai KhodabhaiSataparJamjodhpurJamnagar94274370120Rajput Govindla KhengarlalSataparJamjodhpurJamnagar704611429221Dodiya Rudabhai MulubhaiSataparJamjodhpurJamnagar960187268822Parmar Jagdishbai ArjanbhaiSataparJamjodhpurJamnagar960187268823Dodiya Balubhai RudabhaiSataparJamjodhpurJamnagar971465948424Parmar Kishorbhai KhodabhaiSataparJamjodhpurJamnagar99095203625Parmar Hareshbhai GandabhaiSataparJamjodhpurJamnagar99790273226Bera Markhibhai RajabhaiSataparJamjodhpurJamnagar99095203628Singhal Tapubhai MesurbhaiSataparJamjodhpurJamnagar997946227529Bera Sarm	11	Parmar Jayeshbhai Ajmalbhai	Satapar	Jamjodhpur	Jamnagar	9725270610
13Vadhre Hiteshbhai HajabhaiSataparJamjodhpurJamnagar989892809614Parmar Hajabhai ThobhanbhaiSataparJamjodhpurJamnagar972537046515Dodiya Rajeshbhai BabubhaiSataparJamjodhpurJamnagar955813840016Ulva Jesabhai KishabhaiSataparJamjodhpurJamnagar942743370118Parmar Rameshbhai AbhubhaiSataparJamjodhpurJamnagar942743370118Parmar Kishorbhai KhodabhaiSataparJamjodhpurJamnagar942743370118Parmar Hareshbhai GandabhaiSataparJamjodhpurJamnagar941455742420Rajput Govindlal KhengarlalSataparJamjodhpurJamnagar704611429221Dodiya Rudabhai MulubhaiSataparJamjodhpurJamnagar989872080022Parmar Hareshbhai ArjanbhaiSataparJamjodhpurJamnagar960187268824Parmar Kishorbhai KhodabhaiSataparJamjodhpurJamnagar96108268824Parmar Hareshbhai GandabhaiSataparJamjodhpurJamnagar971465948425Parmar Hareshbhai KajabhaiSataparJamjodhpurJamnagar99052963628Singhal Tapubhai MesurbhaiSataparJamjodhpurJamnagar99136355331Bera Ashmitaben KarshanbhaiSataparJamjodhpurJamnagar99136355332Bera Khimabhai ParbatbhaiSataparJamjodhpurJamnagar997906203130Bera	12	Parmar Bhaveshbhai Manibhai	Satapar	Jamjodhpur	Jamnagar	9725316149
14Parmar Hajabhai ThobhanbhaiSataparJamjodhpurJamnagar972537046515Dodiya Rajeshbhai BabubhaiSataparJamjodhpurJamnagar955813840016Ulva Jesabhai KishabhaiSataparJamjodhpurJamnagar942743370117Parmar Rameshbhai AbhubhaiSataparJamjodhpurJamnagar942743370118Parmar Kishorbhai KhodabhaiSataparJamjodhpurJamnagar941455742420Rajput Govindlal KhengarlalSataparJamjodhpurJamnagar941455742421Dodiya Rudabhai MulubhaiSataparJamjodhpurJamnagar989872080022Parmar Jagdishbhai ArjanbhaiSataparJamjodhpurJamnagar960187268824Parmar Kishorbhai KhodabhaiSataparJamjodhpurJamnagar960187268825Parmar Hareshbhai GandabhaiSataparJamjodhpurJamnagar962474648025Parmar Hareshbhai GandabhaiSataparJamjodhpurJamnagar99052963628Singhal Tapubhai MesurbhaiSataparJamjodhpurJamnagar997900973229Bera Asjabhai RajabhaiSataparJamjodhpurJamnagar99136355331Bera Gautambhai KarshanbhaiSataparJamjodhpurJamnagar997946227533Nandaniya Naranbhai MaldebhaiSataparJamjodhpurJamnagar99746227534Nandaniya Naranbhai MaldebhaiSataparJamjodhpurJamnagar99746227535B	13	Vadhre Hiteshbhai Hajabhai	Satapar	Jamjodhpur	Jamnagar	9898928096
15Dodiya Rajeshbhai BabubhaiSataparJamjodhpurJamnagar955813840016Ulva Jesabhai KishabhaiSataparJamjodhpurJamnagar853070070017Parmar Rameshbhai AbhubhaiSataparJamjodhpurJamnagar942743370118Parmar Kishorbhai KhodabhaiSataparJamjodhpurJamnagar826451938019Parmar Hareshbhai GandabhaiSataparJamjodhpurJamnagar941455742420Rajput Govindlal KhengarlalSataparJamjodhpurJamnagar704611429221Dodiya Rudabhai MulubhaiSataparJamjodhpurJamnagar706108809922Parmar Hareshbhai GandabhaiSataparJamjodhpurJamnagar960187268824Parmar Kishorbhai KhodabhaiSataparJamjodhpurJamnagar960187268824Parmar Kishorbhai KhodabhaiSataparJamjodhpurJamnagar962474648025Parmar Hareshbhai GandabhaiSataparJamjodhpurJamnagar997900973227Bera Rajabhai RajshibaiSataparJamjodhpurJamnagar997900973228Singhal Tapubhai MesurbhaiSataparJamjodhpurJamnagar997908203130Bera Ashmitaben KarshanbhaiSataparJamjodhpurJamnagar997908203131Bera Gautambhai KarshanbhaiSataparJamjodhpurJamnagar997946227533Nandaniya Naranbhai MaldebhaiSataparJamjodhpurJamnagar987946327334 <td< td=""><td>14</td><td>Parmar Hajabhai Thobhanbhai</td><td>Satapar</td><td>Jamjodhpur</td><td>Jamnagar</td><td>9725370465</td></td<>	14	Parmar Hajabhai Thobhanbhai	Satapar	Jamjodhpur	Jamnagar	9725370465
16Ulva Jesabhai KishabhaiSataparJamjodhpurJamnagar853070070017Parmar Rameshbhai AbhubhaiSataparJamjodhpurJamnagar942743370118Parmar Kishorbhai KhodabhaiSataparJamjodhpurJamnagar826451938019Parmar Hareshbhai GandabhaiSataparJamjodhpurJamnagar941455742420Rajput Govindlal KhengarlalSataparJamjodhpurJamnagar704611429221Dodiya Rudabhai MulubhaiSataparJamjodhpurJamnagar7088208022Parmar Jagdishbai ArjanbhaiSataparJamjodhpurJamnagar706108809923Dodiya Balubhai RudabhaiSataparJamjodhpurJamnagar960187268824Parmar Kishorbhai KhodabhaiSataparJamjodhpurJamnagar962474648025Parmar Hareshbhai GandabhaiSataparJamjodhpurJamnagar971465948426Bera Markhibhai RajabhaiSataparJamjodhpurJamnagar997900973227Bera Rajabhai RajshibhaiSataparJamjodhpurJamnagar997908203130Bera Sarmanbhai ParbathaiSataparJamjodhpurJamnagar997908203131Bera Gautambhai KarshanbhaiSataparJamjodhpurJamnagar99796227533Nandaniya Naranbhai MaldebhaiSataparJamjodhpurJamnagar96876586334Nandaniya Shantaben NaranbhaiSataparJamjodhpurJamnagar96876586334Nandani	15	Dodiya Rajeshbhai Babubhai	Satapar	Jamjodhpur	Jamnagar	9558138400
17Parmar Rameshbhai AbhubhaiSataparJamjodhpurJamnagar942743370118Parmar Kishorbhai KhodabhaiSataparJamjodhpurJamnagar826451938019Parmar Hareshbhai GandabhaiSataparJamjodhpurJamnagar941455742420Rajput Govindlal KhengarlalSataparJamjodhpurJamnagar704611429221Dodiya Rudabhai MulubhaiSataparJamjodhpurJamnagar989872080022Parmar Jagdishbhai ArjanbhaiSataparJamjodhpurJamnagar960187268824Parmar Kishorbhai KhodabhaiSataparJamjodhpurJamnagar960187268824Parmar Kishorbhai KhodabhaiSataparJamjodhpurJamnagar962474648025Parmar Hareshbhai GandabhaiSataparJamjodhpurJamnagar97700973226Bera Markhibhai RajabhaiSataparJamjodhpurJamnagar997900973227Bera Rajabhai RajshibhaiSataparJamjodhpurJamnagar997908203130Bera Ashmitaben KarshanbhaiSataparJamjodhpurJamnagar99136355331Bera Gautambhai KarshanbhaiSataparJamjodhpurJamnagar9968796586334Nandaniya Naranbhai MaldebhaiSataparJamjodhpurJamnagar968796586334Nandaniya Shantaben NaranbhaiSataparJamjodhpurJamnagar968796586334Nandaniya Shantaben NaranbhaiSataparJamjodhpurJamnagar968796586334	16	Ulva Jesabhai Kishabhai	Satapar	Jamjodhpur	Jamnagar	8530700700
18Parmar Kishorbhai KhodabhaiSataparJamjodhpurJamnagar826451938019Parmar Hareshbhai GandabhaiSataparJamjodhpurJamnagar941455742420Rajput Govindlal KhengarlalSataparJamjodhpurJamnagar704611429221Dodiya Rudabhai MulubhaiSataparJamjodhpurJamnagar989872080022Parmar Jagdishbai ArjanbhaiSataparJamjodhpurJamnagar706108809923Dodiya Balubhai RudabhaiSataparJamjodhpurJamnagar960187268824Parmar Kishorbhai KhodabhaiSataparJamjodhpurJamnagar962474648025Parmar Hareshbhai GandabhaiSataparJamjodhpurJamnagar99709073227Bera Agabhai RajabhaiSataparJamjodhpurJamnagar99709073228Singhal Tapubhai MesurbhaiSataparJamjodhpurJamnagar99708203130Bera Ashmitaben KarshanbhaiSataparJamjodhpurJamnagar99136355331Bera Gautambhai YarbatbhaiSataparJamjodhpurJamnagar997946227533Nandaniya Naranbhai MaldebhaiSataparJamjodhpurJamnagar98274063234Nandaniya Shantaben NaranbhaiSataparJamjodhpurJamnagar996876586334Nandaniya Shantaben NaranbhaiSataparJamjodhpurJamnagar982574063235Bera Karshanbhai ParbatbhaiSataparJamjodhpurJamnagar992464327336	17	Parmar Rameshbhai Abhubhai	Satapar	Jamjodhpur	Jamnagar	9427433701
19Parmar Hareshbhai GandabhaiSataparJamjodhpurJamnagar941455742420Rajput Govindlal KhengarlalSataparJamjodhpurJamnagar704611429221Dodiya Rudabhai MulubhaiSataparJamjodhpurJamnagar989872080022Parmar Jagdishbhai ArjanbhaiSataparJamjodhpurJamnagar960187268824Parmar Kishorbhai KhodabhaiSataparJamjodhpurJamnagar960187268824Parmar Kishorbhai KhodabhaiSataparJamjodhpurJamnagar962474648025Parmar Hareshbhai GandabhaiSataparJamjodhpurJamnagar971465948426Bera Markhibhai RajabhaiSataparJamjodhpurJamnagar997900973227Bera Rajabhai RajshibhaiSataparJamjodhpurJamnagar99052963628Singhal Tapubhai MesurbhaiSataparJamjodhpurJamnagar997908203130Bera Ashmitaben KarshanbhaiSataparJamjodhpurJamnagar99136355331Bera Gautambhai KarshanbhaiSataparJamjodhpurJamnagar99746227533Nandaniya Naranbhai MaldebhaiSataparJamjodhpurJamnagar98274663234Nandaniya Shantaben NaranbhaiSataparJamjodhpurJamnagar99246427535Bera Karshanbhai KeshubhaiSataparJamjodhpurJamnagar982574063235Bera Karshanbhai KeshubhaiSataparJamjodhpurJamnagar99246427533	18	Parmar Kishorbhai Khodabhai	Satapar	Jamjodhpur	Jamnagar	8264519380
20Rajput Govindlal KhengarlalSataparJamjodhpurJamnagar704611429221Dodiya Rudabhai MulubhaiSataparJamjodhpurJamnagar989872080022Parmar Jagdishbhai ArjanbhaiSataparJamjodhpurJamnagar706108809923Dodiya Balubhai RudabhaiSataparJamjodhpurJamnagar960187268824Parmar Kishorbhai KhodabhaiSataparJamjodhpurJamnagar962474648025Parmar Hareshbhai GandabhaiSataparJamjodhpurJamnagar971465948426Bera Markhibhai RajabhaiSataparJamjodhpurJamnagar997900973227Bera Rajabhai RajshibhaiSataparJamjodhpurJamnagar990952963628Singhal Tapubhai MesurbhaiSataparJamjodhpurJamnagar990952963629Bera Sarmanbhai ParbatbhaiSataparJamjodhpurJamnagar997908203130Bera Ashmitaben KarshanbhaiSataparJamjodhpurJamnagar991363555331Bera Gautambhai KarshanbhaiSataparJamjodhpurJamnagar997946227533Nandaniya Naranbhai MaldebhaiSataparJamjodhpurJamnagar982574063234Nandaniya Shantaben NaranbhaiSataparJamjodhpurJamnagar99246427335Bera Karshanbhai ParbatbhaiSataparJamjodhpurJamnagar99246427533Nandaniya Shantaben NaranbhaiSataparJamjodhpurJamnagar99246427336<	19	Parmar Hareshbhai Gandabhai	Satapar	Jamjodhpur	Jamnagar	9414557424
21Dodiya Rudabhai MulubhaiSataparJamjodhpurJamnagar989872080022Parmar Jagdishbhai ArjanbhaiSataparJamjodhpurJamnagar706108809923Dodiya Balubhai RudabhaiSataparJamjodhpurJamnagar960187268824Parmar Kishorbhai KhodabhaiSataparJamjodhpurJamnagar962474648025Parmar Hareshbhai GandabhaiSataparJamjodhpurJamnagar971465948426Bera Markhibhai RajabhaiSataparJamjodhpurJamnagar997900973227Bera Rajabhai RajshibhaiSataparJamjodhpurJamnagar990952963628Singhal Tapubhai MesurbhaiSataparJamjodhpurJamnagar990952963629Bera Sarmanbhai ParbatbhaiSataparJamjodhpurJamnagar997908203130Bera Ashmitaben KarshanbhaiSataparJamjodhpurJamnagar991363555331Bera Gautambhai KarshanbhaiSataparJamjodhpurJamnagar997946227533Nandaniya Naranbhai MaldebhaiSataparJamjodhpurJamnagar982574063235Bera Karshanbhai ParbatbhaiSataparJamjodhpurJamnagar992464327336Makvana Bharatbhai KeshubhaiAliyaJamnagarJamnagar701606301737Makvana Bharatbhai KeshubhaiAliyaJamnagarJamnagar878069019938Makvana Maniben PrabhatbhaiAliyaJamnagarJamnagar851132505639Makvana	20	Rajput Govindlal Khengarlal	Satapar	Jamjodhpur	Jamnagar	7046114292
22Parmar Jagdishbhai ArjanbhaiSataparJamjodhpurJamnagar706108809923Dodiya Balubhai RudabhaiSataparJamjodhpurJamnagar960187268824Parmar Kishorbhai KhodabhaiSataparJamjodhpurJamnagar962474648025Parmar Hareshbhai GandabhaiSataparJamjodhpurJamnagar971465948426Bera Markhibhai RajabhaiSataparJamjodhpurJamnagar997900973227Bera Rajabhai RajshibhaiSataparJamjodhpurJamnagar990952963628Singhal Tapubhai MesurbhaiSataparJamjodhpurJamnagar990952963629Bera Sarmanbhai ParbatbhaiSataparJamjodhpurJamnagar997908203130Bera Ashmitaben KarshanbhaiSataparJamjodhpurJamnagar991363555331Bera Gautambhai KarshanbhaiSataparJamjodhpurJamnagar997946227533Nandaniya Naranbhai MaldebhaiSataparJamjodhpurJamnagar968796586334Nandaniya Shantaben NaranbhaiSataparJamjodhpurJamnagar982574063235Bera Karshanbhai KeshubhaiAliyaJamnagarJamagar701606301737Makvana Bharatbhai KeshubhaiAliyaJamnagarJamnagar878069019938Makvana Maniben PrabhtbhaiAliyaJamnagarJamnagar878069019938Makvana Kamuben GopalbhaiAliyaJamnagarJamnagar80089803540Makvana Kamube	21	Dodiya Rudabhai Mulubhai	Satapar	Jamjodhpur	Jamnagar	9898720800
23Dodiya Balubhai RudabhaiSataparJamjodhpurJamnagar960187268824Parmar Kishorbhai KhodabhaiSataparJamjodhpurJamnagar962474648025Parmar Hareshbhai GandabhaiSataparJamjodhpurJamnagar971465948426Bera Markhibhai RajabhaiSataparJamjodhpurJamnagar997900973227Bera Rajabhai RajshibhaiSataparJamjodhpurJamnagar990952963628Singhal Tapubhai MesurbhaiSataparJamjodhpurJamnagar635454380929Bera Sarmanbhai ParbatbhaiSataparJamjodhpurJamnagar997908203130Bera Ashmitaben KarshanbhaiSataparJamjodhpurJamnagar997908203131Bera Gautambhai KarshanbhaiSataparJamjodhpurJamnagar997908203132Bera Khimabhai ParbatbhaiSataparJamjodhpurJamnagar997908203133Bera Gautambhai KarshanbhaiSataparJamjodhpurJamnagar997946227533Nandaniya Naranbhai MaldebhaiSataparJamjodhpurJamnagar968796586334Nandaniya Shantaben NaranbhaiSataparJamjodhpurJamnagar982574063235Bera Karshanbhai ParbatbhaiSataparJamjodhpurJamnagar992464327336Makvana Bharatbhai KeshubhaiAliyaJamnagarJamnagar701606301737Makvana Hemantbhai KeshubhaiAliyaJamnagarJamnagar851132505639Ma	22	Parmar Jagdishbhai Arjanbhai	Satapar	Jamjodhpur	Jamnagar	7061088099
24Parmar Kishorbhai KhodabhaiSataparJamjodhpurJamnagar962474648025Parmar Hareshbhai GandabhaiSataparJamjodhpurJamnagar971465948426Bera Markhibhai RajabhaiSataparJamjodhpurJamnagar997900973227Bera Rajabhai RajshibhaiSataparJamjodhpurJamnagar990952963628Singhal Tapubhai MesurbhaiSataparJamjodhpurJamnagar635454380929Bera Sarmanbhai ParbatbhaiSataparJamjodhpurJamnagar997908203130Bera Ashmitaben KarshanbhaiSataparJamjodhpurJamnagar991363555331Bera Gautambhai KarshanbhaiSataparJamjodhpurJamnagar997946227533Nandaniya Naranbhai MaldebhaiSataparJamjodhpurJamnagar968796586334Nandaniya Shantaben NaranbhaiSataparJamjodhpurJamnagar982574063235Bera Karshanbhai ParbatbhaiSataparJamjodhpurJamnagar992464327336Makvana Bharatbhai KeshubhaiAliyaJamnagarJamnagar701606301737Makvana Hemantbhai KeshubhaiAliyaJamnagarJamnagar851132505639Makvana Kamuben GopalbhaiAliyaJamnagarJamnagar80089803540Makvana Saroiben KeshubhaiAliyaJamnagarJamnagar800898035	23	Dodiya Balubhai Rudabhai	Satapar	Jamjodhpur	Jamnagar	9601872688
25Parmar Hareshbhai GandabhaiSataparJamjodhpurJamnagar971465948426Bera Markhibhai RajabhaiSataparJamjodhpurJamnagar997900973227Bera Rajabhai RajshibhaiSataparJamjodhpurJamnagar990952963628Singhal Tapubhai MesurbhaiSataparJamjodhpurJamnagar635454380929Bera Sarmanbhai ParbatbhaiSataparJamjodhpurJamnagar997908203130Bera Ashmitaben KarshanbhaiSataparJamjodhpurJamnagar991363555331Bera Gautambhai KarshanbhaiSataparJamjodhpurJamnagar991363555332Bera Khimabhai ParbatbhaiSataparJamjodhpurJamnagar997946227533Nandaniya Naranbhai MaldebhaiSataparJamjodhpurJamnagar968796586334Nandaniya Shantaben NaranbhaiSataparJamjodhpurJamnagar992464327336Makvana Bharatbhai KeshubhaiAliyaJamnagarJamnagar701606301737Makvana Hemantbhai KeshubhaiAliyaJamnagarJamnagar878069019938Makvana Kamuben GopalbhaiAliyaJamnagarJamnagar800089803540Makvana Saroihen KeshubhaiAliyaJamnagarJamnagar9429220158	24	Parmar Kishorbhai Khodabhai	Satapar	Jamjodhpur	Jamnagar	9624746480
26Bera Markhibhai RajabhaiSataparJamjodhpurJamnagar997900973227Bera Rajabhai RajshibhaiSataparJamjodhpurJamnagar990952963628Singhal Tapubhai MesurbhaiSataparJamjodhpurJamnagar635454380929Bera Sarmanbhai ParbatbhaiSataparJamjodhpurJamnagar997908203130Bera Ashmitaben KarshanbhaiSataparJamjodhpurJamnagar99136355331Bera Gautambhai KarshanbhaiSataparJamjodhpurJamnagar814019511632Bera Khimabhai ParbatbhaiSataparJamjodhpurJamnagar997906227533Nandaniya Naranbhai MaldebhaiSataparJamjodhpurJamnagar968796586334Nandaniya Shantaben NaranbhaiSataparJamjodhpurJamnagar992464327335Bera Karshanbhai ParbatbhaiSataparJamjodhpurJamnagar992464327336Makvana Bharatbhai KeshubhaiAliyaJamnagarJamnagar701606301737Makvana Maniben PrabatbhaiAliyaJamnagarJamnagar878069019938Makvana Kamuben GopalbhaiAliyaJamnagarJamnagar800089803540Makvana Saroiben KeshubhaiAliyaJamnagarJamnagar9428220158	25	Parmar Hareshbhai Gandabhai	Satapar	Jamjodhpur	Jamnagar	9714659484
27Bera Rajabhai RajshibhaiSataparJamjodhpurJamnagar990952963628Singhal Tapubhai MesurbhaiSataparJamjodhpurJamnagar635454380929Bera Sarmanbhai ParbatbhaiSataparJamjodhpurJamnagar997908203130Bera Ashmitaben KarshanbhaiSataparJamjodhpurJamnagar991363555331Bera Gautambhai KarshanbhaiSataparJamjodhpurJamnagar814019511632Bera Khimabhai ParbatbhaiSataparJamjodhpurJamnagar997946227533Nandaniya Naranbhai MaldebhaiSataparJamjodhpurJamnagar968796586334Nandaniya Shantaben NaranbhaiSataparJamjodhpurJamnagar982574063235Bera Karshanbhai ParbatbhaiSataparJamjodhpurJamnagar992464327336Makvana Bharatbhai KeshubhaiAliyaJamnagarJamnagar701606301737Makvana Hemantbhai KeshubhaiAliyaJamnagarJamnagar878069019938Makvana Kamuben GopalbhaiAliyaJamnagarJamnagar800089803540Makvana Saroiben KeshubhaiAliyaJamnagarJamnagar8000898035	26	Bera Markhibhai Rajabhai	Satapar	Jamjodhpur	Jamnagar	9979009732
28Singhal Tapubhai MesurbhaiSataparJamjodhpurJamnagar635454380929Bera Sarmanbhai ParbatbhaiSataparJamjodhpurJamnagar997908203130Bera Ashmitaben KarshanbhaiSataparJamjodhpurJamnagar991363555331Bera Gautambhai KarshanbhaiSataparJamjodhpurJamnagar814019511632Bera Khimabhai ParbatbhaiSataparJamjodhpurJamnagar997946227533Nandaniya Naranbhai MaldebhaiSataparJamjodhpurJamnagar968796586334Nandaniya Shantaben NaranbhaiSataparJamjodhpurJamnagar982574063235Bera Karshanbhai ParbatbhaiSataparJamjodhpurJamnagar992464327336Makvana Bharatbhai KeshubhaiAliyaJamnagarJamnagar701606301737Makvana Hemantbhai KeshubhaiAliyaJamnagarJamnagar851132505639Makvana Kamuben GopalbhaiAliyaJamnagarJamnagar800089803540Makvana Saroiben KeshubhaiAliyaJamnagarJamnagar800898035	27	Bera Rajabhai Rajshibhai	Satapar	Jamjodhpur	Jamnagar	9909529636
29Bera Sarmanbhai ParbatbhaiSataparJamjodhpurJamnagar997908203130Bera Ashmitaben KarshanbhaiSataparJamjodhpurJamnagar991363555331Bera Gautambhai KarshanbhaiSataparJamjodhpurJamnagar814019511632Bera Khimabhai ParbatbhaiSataparJamjodhpurJamnagar997946227533Nandaniya Naranbhai MaldebhaiSataparJamjodhpurJamnagar968796586334Nandaniya Shantaben NaranbhaiSataparJamjodhpurJamnagar982574063235Bera Karshanbhai ParbatbhaiSataparJamjodhpurJamnagar992464327336Makvana Bharatbhai KeshubhaiAliyaJamnagarJamnagar701606301737Makvana Hemantbhai KeshubhaiAliyaJamnagarJamnagar878069019938Makvana Kamuben GopalbhaiAliyaJamnagarJamnagar800089803540Makvana Saroiben KeshubhaiAliyaJamnagarJamnagar8000898035	28	Singhal Tapubhai Mesurbhai	Satapar	Jamjodhpur	Jamnagar	6354543809
30Bera Ashmitaben KarshanbhaiSataparJamjodhpurJamnagar991363555331Bera Gautambhai KarshanbhaiSataparJamjodhpurJamnagar814019511632Bera Khimabhai ParbatbhaiSataparJamjodhpurJamnagar997946227533Nandaniya Naranbhai MaldebhaiSataparJamjodhpurJamnagar968796586334Nandaniya Shantaben NaranbhaiSataparJamjodhpurJamnagar982574063235Bera Karshanbhai ParbatbhaiSataparJamjodhpurJamnagar992464327336Makvana Bharatbhai KeshubhaiAliyaJamnagarJamnagar701606301737Makvana Hemantbhai KeshubhaiAliyaJamnagarJamnagar878069019938Makvana Kamuben GopalbhaiAliyaJamnagarJamnagar800089803540Makvana Saroiben KeshubhaiAliyaJamnagarJamnagar9428220158	29	Bera Sarmanbhai Parbatbhai	Satapar	Jamjodhpur	Jamnagar	9979082031
31Bera Gautambhai KarshanbhaiSataparJamjodhpurJamnagar814019511632Bera Khimabhai ParbatbhaiSataparJamjodhpurJamnagar997946227533Nandaniya Naranbhai MaldebhaiSataparJamjodhpurJamnagar968796586334Nandaniya Shantaben NaranbhaiSataparJamjodhpurJamnagar982574063235Bera Karshanbhai ParbatbhaiSataparJamjodhpurJamnagar992464327336Makvana Bharatbhai KeshubhaiAliyaJamnagarJamnagar701606301737Makvana Hemantbhai KeshubhaiAliyaJamnagarJamnagar878069019938Makvana Maniben PrabhatbhaiAliyaJamnagarJamnagar851132505639Makvana Kamuben GopalbhaiAliyaJamnagarJamnagar800089803540Makvana Saroiben KeshubhaiAliyaJamnagarJamnagar9428220158	30	Bera Ashmitaben Karshanbhai	Satapar	Jamjodhpur	Jamnagar	9913635553
32Bera Khimabhai ParbatbhaiSataparJamjodhpurJamnagar99/946227533Nandaniya Naranbhai MaldebhaiSataparJamjodhpurJamnagar968796586334Nandaniya Shantaben NaranbhaiSataparJamjodhpurJamnagar982574063235Bera Karshanbhai ParbatbhaiSataparJamjodhpurJamnagar992464327336Makvana Bharatbhai KeshubhaiAliyaJamnagarJamnagar701606301737Makvana Hemantbhai KeshubhaiAliyaJamnagarJamnagar878069019938Makvana Maniben PrabhatbhaiAliyaJamnagarJamnagar851132505639Makvana Kamuben GopalbhaiAliyaJamnagarJamnagar800089803540Makvana Saroiben KeshubhaiAliyaJamnagarJamnagar9428220158	31	Bera Gautambhai Karshanbhai	Satapar	Jamjodhpur	Jamnagar	8140195116
33Nandaniya Naranbhai MaldebhaiSataparJamjodnpurJamnagar968796586334Nandaniya Shantaben NaranbhaiSataparJamjodhpurJamnagar982574063235Bera Karshanbhai ParbatbhaiSataparJamjodhpurJamnagar992464327336Makvana Bharatbhai KeshubhaiAliyaJamnagarJamnagar701606301737Makvana Hemantbhai KeshubhaiAliyaJamnagarJamnagar878069019938Makvana Maniben PrabhatbhaiAliyaJamnagarJamnagar851132505639Makvana Kamuben GopalbhaiAliyaJamnagarJamnagar800089803540Makvana Saroiben KeshubhaiAliyaJamnagarJamnagar9428220158	32	Bera Khimabhai Parbatbhai	Satapar	Jamjodnpur	Jamnagar	9979462275
34Nandaniya Snantaben NaranbhaiSataparJamjodnpurJamnagar982574063235Bera Karshanbhai ParbatbhaiSataparJamjodhpurJamnagar992464327336Makvana Bharatbhai KeshubhaiAliyaJamnagarJamnagar701606301737Makvana Hemantbhai KeshubhaiAliyaJamnagarJamnagar878069019938Makvana Maniben PrabhatbhaiAliyaJamnagarJamnagar851132505639Makvana Kamuben GopalbhaiAliyaJamnagarJamnagar800089803540Makvana Saroiben KeshubhaiAliyaJamnagarJamnagar9428220158	33	Nandaniya Naranbhai Maidebhai	Satapar	Jamjodnpur	Jamnagar	9687965863
35Bera Karshanbhai ParbatbhaiSataparJamjounpurJamnagar992464327336Makvana Bharatbhai KeshubhaiAliyaJamnagarJamnagar701606301737Makvana Hemantbhai KeshubhaiAliyaJamnagarJamnagar878069019938Makvana Maniben PrabhatbhaiAliyaJamnagarJamnagar851132505639Makvana Kamuben GopalbhaiAliyaJamnagarJamnagar800089803540Makvana Saroiben KeshubhaiAliyaJamnagarJamnagar9428220158	34	Nandaniya Shantaben Narahbhai	Satapar	Jamjodnpur	Jamnagar	9825740632
36Makvana Bharatbhar KeshubharAliyaJamnagarJamnagar701000301737Makvana Hemantbhai KeshubhaiAliyaJamnagarJamnagar878069019938Makvana Maniben PrabhatbhaiAliyaJamnagarJamnagar851132505639Makvana Kamuben GopalbhaiAliyaJamnagarJamnagar800089803540Makvana Saroiben KeshubhaiAliyaJamnagarJamnagar9428220158	35	Malwana Rharathhai Kashubhai	Salapar	Jampagar	Jampagar	9924043273
37Makvana Hemantohai KeshubhaiAliyaJamnagarJamnagar878009019938Makvana Maniben PrabhatbhaiAliyaJamnagarJamnagar851132505639Makvana Kamuben GopalbhaiAliyaJamnagarJamnagar800089803540Makvana Sarojben KeshubhaiAliyaJamnagarJamnagar9428220158	27	Makyana Homanthhai Koshubhai	Aliya	Jannagar	Jampagar	7010003017 9790600100
38Makvana Malibeli PlabhatbhaiAliyaJamnagarJamnagar801132303039Makvana Kamuben GopalbhaiAliyaJamnagarJamnagar800089803540Makvana Saroiben KeshubbaiAliyaJamnagarJamnagar9428220158	20	Makyana Manihon Brabbathhai	Aliya	Jampagar	Jampagar	8780090199
39     Makvana Kanuben Gopalbilai     Aliya     Jannagar     Jannagar       40     Makvana Sarojben Keshubhai     Aliya     Jannagar     Jannagar	20	Makyana Kamuban Gapalbhai	Aliya	Jampagar	Jampagar	80008025
	70	Makvana Saroiban Kashubbai	Aliya	Jannagar	Jampagar	9428220152
Aliya         Jaliliagai         Jaliliagai         J420520136           A1         Marakna Vinodhhai Bahubhai         Nana Vadala         Kalavad         Jannagar         0909291260	40 <u>/</u> 1	Marakna Vinodhhai Bahubhai	Nana Vadala	Kalavad	lamnagar	9898281260
41         Marakna Vinodonai Dabubhai         Nana Vadala         Kalavad         Jannagai         3636261200           42         Marakna Babubhai Baviibhai         Nana Vadala         Kalavad         Jannagai         3636261200	41	Marakna Babubbai Bayubbai	Nana Vadala	Kalavad	lamnagar	-
43 Aminara Mathurbhai Raviibhai Nana Vadala Kalavad Jannagar 7777052336	42	Aminara Mathurhhai Raviibhai	Nana Vadala	Kalavad	lamnagar	7777952326
44 Savaliya Girdharbhai Chhganbhai Nana Vadala Kalayad Jamnagar 9825632416	45	Savaliya Girdharbhai Chhganbhai	Nana Vadala	Kalavad	Jamnagar	9825632416
45 Savaliya Mukeshbhai Chhaganbhai Nana Vadala Kalayad Jamnagar 9978775437	45	Savaliya Mukeshbhai Chhaganbhai	Nana Vadala	Kalavad	lamnagar	9978775437
46 Rathod Damiibhai Dhaniibhai Bhensadal Dhrol Jamnagar 9924491616	46	Rathod Damiibhai Dhaniibhai	Bhensadal	Dhrol	Jamnagar	9924491616

47	Rathod Natavarlal Jivrajbhai	Bhensadal	Dhrol	Jamnagar	-
48	Chotaliya Lalitbhai Narsinhbhai	Bhensadal	Dhrol	Jamnagar	-
49	Chotaliya Rameshbhai Dyaljibhai	Bhensadal	Dhrol	Jamnagar	-
50	Chotaliya Gangdashbhai Gopalbhai	Bhensadal	Dhrol	Jamnagar	-

## Groundnut (GJG-32) under NMOOP SchemeCFLD (*Kharif* – 2023)

(Inputs: Groundnut Seed (GJG-32) - 30.0 kg, *Metarhizium anisopliae* – 2.0 kg, *Beauveria bassiana*-2.0 kg, *Trichoderma* - 2.0 kg, *Rhizobium* -1 Lit, PSB- 1 Lit)

Sr.	Name	Village	Taluka	District	Cell Number
No.	Name				
1	Virani Nimishbhai Govindbhai	Daldevadiya	Jamjodhpur	Jamnagar	6351930149
2	Virani Laljibhai Shamjibhai	Daldevadiya	Jamjodhpur	Jamnagar	9913791942
3	Virani Harishbhai Karshanbhai	Daldevadiya	Jamjodhpur	Jamnagar	6353784342
4	Virani Mukeshbhai Karshanbhai	Daldevadiya	Jamjodhpur	Jamnagar	9429141448
5	Virani Ghanshyambhai Popatbhai	Daldevadiya	Jamjodhpur	Jamnagar	9878140844
6	Virani BHikhubhai Popatbhai	Daldevadiya	Jamjodhpur	Jamnagar	9428126367
7	Virani Jayantilal Harjibhai	Daldevadiya	Jamjodhpur	Jamnagar	9978140817
8	Virani jivanbhai Panchabhai	Daldevadiya	Jamjodhpur	Jamnagar	9328723316
9	Virani Babubhai Jadavbhai	Daldevadiya	Jamjodhpur	Jamnagar	9909897793
10	Thummar Rameshbhai Mavjibhai	Daldevadiya	Jamjodhpur	Jamnagar	9978140337
11	Thummar Mansukhbhai Mavajibhai	Daldevadiya	Jamjodhpur	Jamnagar	9979730875
12	Virani Naranbhai Limbabhai	Daldevadiya	Jamjodhpur	Jamnagar	9978149110
13	Virani Nagajibhai Valajibhai	Daldevadiya	Jamjodhpur	Jamnagar	9879414046
14	Virani Jamanbhai Valajibhai	Daldevadiya	Jamjodhpur	Jamnagar	9925421537
15	Solanki Karshanbhai Somabhai	Daldevadiya	Jamjodhpur	Jamnagar	9726626413
16	Parmar Babubhai Parbatbhai	Daldevadiya	Jamjodhpur	Jamnagar	9664566863
17	Virani Govindbhai Chhaganbhai	Daldevadiya	Jamjodhpur	Jamnagar	9512809252
18	Ramoliya Vallabhbhai Narshibhai	Daldevadiya	Jamjodhpur	Jamnagar	9825415870
19	Ajudiya Mansukhbhai Ravjibhai	Daldevadiya	Jamjodhpur	Jamnagar	9428493162
20	Ajudiya Ravjibhai Mulajibhai	Daldevadiya	Jamjodhpur	Jamnagar	9428493132
21	Jadeja Navalsinh Devajisinh	Daldevadiya	Jamjodhpur	Jamnagar	9574697047
22	Jadeja Hemantsinh Jorubha	Daldevadiya	Jamjodhpur	Jamnagar	9574697047
23	Ramoliya Ghanshyambhai Govindbhai	Daldevadiya	Jamjodhpur	Jamnagar	9624427632
24	Ramoliya Mukundbhai Mohanbhai	Daldevadiya	Jamjodhpur	Jamnagar	9978140754
25	Jadeja Balvansinh Jorubha	Daldevadiya	Jamjodhpur	Jamnagar	9725627388
26	Chhatrara Hargovindbhai Mohanbhai	Jayva	Dhrol	Jamnagar	9879117784
27	Dadhaniya Ramaben Veljibhai	Jayva	Dhrol	Jamnagar	9824239578
28	Raparka Dineshbhai Nanjibhai	Jayva	Dhrol	Jamnagar	9824361427
29	Zala Hivabhai Bhikhabhai	Jayva	Dhrol	Jamnagar	6351556253
30	Chhatrara amitbhai jayantilala	Jayva	Dhrol	Jamnagar	8469700699
31	Chhatrara Damjibhai Tejabhai	Jayva	Dhrol	Jamnagar	9726573639
32	Bhesadadiya Sevantilal Savajibhai	Jayva	Dhrol	Jamnagar	7984153398
33	Dadhaniya Champaben Dayaljibhai	Jayva	Dhrol	Jamnagar	9427657272
34	Dudhagara Jadavbhai Bhurabhai	Jayva	Dhrol	Jamnagar	6354450420
35	Mungara Mansukhbhai Pragajibhai	Jayva	Dhrol	Jamnagar	9429941423
36	Dadhaniya Govindbhai Lavajibhai	Jayva	Dhrol	Jamnagar	6353290310
37	Mungara Hansrajbhai Popatbhai	Jayva	Dhrol	Jamnagar	9427942830
38	Sudhaguniya Salimbhai Valimamadbhai	Jayva	Dhrol	Jamnagar	9824940700
39	Sinojiya Tejabhai Odhabhai	Jayva	Dhrol	Jamnagar	9727412506
40	Dadhaniya Mavajibhai Lavajibhai	Jayva	Dhrol	Jamnagar	9913925399
41	BHesadadiya Laljibhai Mohanbhai	Jayva	Dhrol	Jamnagar	9998259159
42	Jadeja Surendrasinh Ranjitsinh	Jayva	Dhrol	Jamnagar	9913393393

43	Chhatrara Mahendrabhai Mulajibhai	Jayva	Dhrol	Jamnagar	9428016802
44	Vegad Shantilal Dharmshibhai	Jayva	Dhrol	Jamnagar	9327636354
45	Ranipa Khimajibhai Narsinhbhai	Jayva	Dhrol	Jamnagar	9429466443
46	Chhatrara Bhanuben Labhubhai	Jayva	Dhrol	Jamnagar	9408535337
47	Oza Maheshbhai Gabharubhai	Jayva	Dhrol	Jamnagar	-
48	Dadhaniya Manjulaben Mavajibhai	Jayva	Dhrol	Jamnagar	9409533494
49	Dadhaniya Ashokbhai Jadavajibhai	Jayva	Dhrol	Jamnagar	-
50	Parmar Bhogilal Nanjibhai	Jayva	Dhrol	Jamnagar	6334636528

## ATIC-Castor (Varietal) Kharif :2023-24, 8 ha. 20 farmers

Input : Castor seed- 2kg (GCH-9) S. **Farmer name** Village Taluka District Mobile No. No. Jamjodhpur 9898690316 1 Mahendrabhai Lakhmanbhai Rathod Satapar Jamnagar 2 Rajeshbhai Karabhai Nakum Satapar Jamjodhpur Jamnagar 9714559358 3 Polabhai Ratnabhai Nakum Satapar Jamjodhpur Jamnagar 6353961102 4 Rajeshbhai Savdasbhai Rathod 9724872283 Satapar Jamjodhpur Jamnagar 5 Karshanbhai Ratnabhai Nakum Satapar Jamjodhpur Jamnagar 9737557911 6 Labhuben Harilal Dhamsaniya Falla 9974452723 Jamnagar Jamnagar 7 Rajendrasinh Ganpatsinh Jadeja Khandhera Kalavad Jamnagar 9825856916 8 Karangiya Goganbhai Jetabhai Nanduri Lalpur 9427465055 Jamnagar 9 Tarpara Ramnikbhai Lakshmanbhai Khimani Sanosara Kalavad 9978138906 Jamnagar 10 Vithalbhai Nathabhai Tarpara Khimani Sanosara 9340440272 Kalavad Jamnagar 11 Sureshbhai Amrutlal Bhensdadiya Moti Banugar 9726905420 Jamnagar Jamnagar 12 Rajnikant Mavjibhai Bhensadadiya Moti Banugar Jamnagar Jamnagar 9426216346 13 Jaydipbhai Gordhanbhai Sanghani Majoth Dhrol Jamnagar 9898654599 14 Kiritbhai Gordhanbhai Sanghani Majoth Dhrol Jamnagar 9974026865 15 Jerambhai Mavjibhai Dudhagara Majoth Dhrol Jamnagar 9898102451 16 Girdharbhai Harkhabhai Panara Jasapar Jodia Jamnagar 9904856966 17 Jadabhai Raghubhai Parmar Jivapar Jamnagar Jamnagar 9427773898 18 Irfanbhai Gulmamadbhai Sapiya Nana Khadba Lalpur Jamnagar 9825067286 19 Maheshbhai Kalyanjibhai Nakum Shekhpat Jamnagar Jamnagar 9879849303 20 Nathabhai Premjibhai Sanghani 9898814305 Theba Jamnagar Jamnagar

### Pearl millet- KVK Scheme, Summer 2023-24

(Inputs:Pearl millet Seed (GHB-1129)

Sr. No.	Name	Village	Taluka	District	Cell Number
1	Bhanderi Kaushikbhai Chandubhai	Matva	Jamnagar	Jamnagar	9909491764
2	BHanderi Jayantibhai Lakhabhai	Matva	Jamnagar	Jamnagar	9825990270
3	Bhanderi Kishorbhai Ladhabhai	Matva	Jamnagar	Jamnagar	9924590385
4	Varsani Bhikhabhai Jerambhai	Matva	Jamnagar	Jamnagar	8347508086
5	Sanghani Jamanbhai Damjibhai	Matva	Jamnagar	Jamnagar	9727583981
6	Dhameliya Mukeshbhai Vitthalbhai	Matva	Jamnagar	Jamnagar	9879397207
7	Dhameliya Lakhamanbhai Manjibhai	Matva	Jamnagar	Jamnagar	9974780909
8	Nariya Viatthalbhai Chanabhai	Sarvaniya	Kalavad	Jamnagar	9909651923
9	Baraiya Dharmeshbhai Parshottambhai	Jashapar	Jodiya	Jamnagar	9733514996
10	Panara Jaysukhbhai Harkhabhai	Jashapar	Jodiya	Jamnagar	9544759656

## Wheat (GW-451) FLDs under KVK Scheme Rabi 2023-24

(Inputs: GW-451 seed – 40 kg)

Sr.No.	Name	Village	Taluka	District	Cell Number
1	Kantilal Arjanbhai Hinsu	Kharva	Dhrol	Jamnagar	9904600672
2	Dakshaben Rameshbhai Hinsu	Kharva	Dhrol	Jamnagar	
3	Rameshbhai Shamjibhai Hinsu	Kharva	Dhrol	Jamnagar	9925303747
4	Bhagvanjibhai Jethabhai Hinsu	Kharva	Dhrol	Jamnagar	9228210268
5	Mansukhbhai Shamjibhai Ghetiya	Kharva	Dhrol	Jamnagar	9924949886
6	Jentilal Makanbhai Ghetiya	Kharva	Dhrol	Jamnagar	9904198624
7	Arvindbhai Nanjibhai Ghetiya	Kharva	Dhrol	Jamnagar	9714932250
8	Hareshbhai Shamjibhai Sapovadiya	Kharva	Dhrol	Jamnagar	9879065276
9	Devshibhai Shamjibhai Sapovadiya	Kharva	Dhrol	Jamnagar	9979975590
10	Rakeshbhai Shamjibhai Sapovadiya	Kharva	Dhrol	Jamnagar	9825773299

### AJWAIN FLDs under KVK Scheme Kharif 2023

(Inputs:. Trichoderma-2.0 kg, Beauveria – 2 kg, Azotobacter -1 lit, PSB- 1 lit, Mix micro nutrient-1 kg)

Sr. No.	Name	Village	Taluka	District	Cell Number
1	Gambhava Ratilal Ghelabhai	Jamdudhai	Jodiya	Jamnagar	8320656001
2	Mendpara Ratilal Thakarshibhai	Jamdudhai	Jodiya	Jamnagar	9713050268
3	Mendpara Mukeshbhai Mulajibhai	Jamdudhai	Jodiya	Jamnagar	9979383639
4	4 Gambhava Devajibhai Govindbhai		Jodiya	Jamnagar	9925450825
5	Gambhava Narbherambhai popatbhai		Jodiya	Jamnagar	9726772961
6	Gambhava Dineshbhai Becharbhai	Jamdudhai	Jodiya	Jamnagar	9925396169
7	Gambhava Dineshbhai Jadavajibhai	Jamdudhai	Jodiya	Jamnagar	9913393341
8	Gambhava Kantilal Veljibhai	Jamdudhai	Jodiya	Jamnagar	9726720387
9	Gambhava Jadavajibhai Premajibhai	Jamdudhai	Jodiya	Jamnagar	9724377785
10	Gambhava Mukeshbhai Ladhabhai	Jamdudhai	Jodiya	Jamnagar	9879661268

## ATIC - Cumin (IPM)

Rabi 2023-24

8 ha.

20 farmers

Input : Beauveria Bassiana-1 kg, Trichoderma -2 kg, PSB-1 Li., Azotobactor- 1Li.

S.	Farmer name	Village	Taluka	District	Mobile No.
No.					
1	Maheshbhai Girdharbhai Chhatrara	Jayva	Dhrol	Jamnagar	9067768919
2	Chamanbhai Tapubhai Bhensdadiya	Jayva	Dhrol	Jamnagar	9426047042
3	Salim Valimamad Sudhaguniya	Jayva	Dhrol	Jamnagar	9824940700
4	Asvinbhai Rugnathbhai Dadhaniya	Jayva	Dhrol	Jamnagar	8849568480
5	Mavjibhai Lavjibhai Dadhaniya	Jayva	Dhrol	Jamnagar	9913925311
6	Govindbhai Lavjibhai Dadhaniya	Jayva	Dhrol	Jamnagar	6353290310
7	Husenbhai Hasambhai Sumra	Jayva	Dhrol	Jamnagar	6351618128
8	Tejabhai Odhavajibhai Sinojiya	Jayva	Dhrol	Jamnagar	9327412506
9	Nileshbhai Ramjibhai Chhatara	Jayva	Dhrol	Jamnagar	6354091261
10	Sureshbhai Shantilal Vegad	Jayva	Dhrol	Jamnagar	8320916579
11	Muktaben Ganeshbhai Mungra	Jayva	Dhrol	Jamnagar	9106036686
12	Kishorbhai Gangdasbhai Dadhaniya	Jayva	Dhrol	Jamnagar	9428861296
13	Jadavajibhai Bhurabhai Dudhagara	Jayva	Dhrol	Jamnagar	6354450420
14	Virsodiya Maheshbhai Mohanbhai	Jayva	Dhrol	Jamnagar	9428986829
15	Maheshbhai Gabhru Oza	Jayva	Dhrol	Jamnagar	9428865366
16	Jentilal Ratilal Chhatrara	Jayva	Dhrol	Jamnagar	9979574515
17	Parsotambhai Ladhabhai Mungara	Jayva	Dhrol	Jamnagar	9428059056
18	Ganeshbhai Jadavajibhai Mungara	Jayva	Dhrol	Jamnagar	8200622722
19	Laljibhai Avacharbhai Virsodiya	Jayva	Dhrol	Jamnagar	8401215315

20	Nagjibhai Ravjibhai Bhensdadiya	Jayva	Dhrol	Jamnagar	9408033244
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## ATIC-Coriander (IPM) (Rabi 2023-24) 8 ha. 20 farmers

Input : Beauveria Bassiana-1 kg, Trichoderma -2 kg, PSB-1 Li., Azotobactor- 1Li.

S.	Farmer name	Village	Taluka	District	Mobile No.
No.		_			
1	Mansukhbhai Kheemabhai Hirpara	Sadodar	Jamjodhpur	Jamnagar	9974542244
2	Govindbhai Boghabhai Bamrotiya	Sadodar	Jamjodhpur	Jamnagar	9904019308
3	Mukeshbhai Khimabhai Hirpara	Sadodar	Jamjodhpur	Jamnagar	9825581821
4	Dhanjibhai Bavanjibhai Bamrotiya	Sadodar	Jamjodhpur	Jamnagar	9978351687
5	Bheekhabhai Ukabhai Gadhethariya	Sadodar	Jamjodhpur	Jamnagar	9687280446
6	Bansibhai Dhirajlal Bhimani	Sadodar	Jamjodhpur	Jamnagar	7069581328
7	Hansaben Mahendrabhai Kambariya	Sadodar	Jamjodhpur	Jamnagar	9909659653
8	Bhavanbhai Dhanabhai Dudhagara	Sadodar	Jamjodhpur	Jamnagar	7600069585
9	Hareshbhai Bheekhabhai Hirpara	Sadodar	Jamjodhpur	Jamnagar	9727458162
10	Malviya Dhirubhai Popatbhai	Sadodar	Jamjodhpur	Jamnagar	9313028953
11	Arvindbhai Bhadabhai Gadhethariya	Sadodar	Jamjodhpur	Jamnagar	9724627668
12	Karabhai Ukabhai Bamrotiya	Sadodar	Jamjodhpur	Jamnagar	9724498174
13	Mansukhbhai Amrashibhai Bhadru	Sadodar	Jamjodhpur	Jamnagar	9727151267
14	Motiben Karabhai Bera	Sadodar	Jamjodhpur	Jamnagar	9978351806
15	Govindbhai Nathabhai Pagda	Sadodar	Jamjodhpur	Jamnagar	6353348209
16	Devsibhai Bhimsibhai Bamrotiya	Sadodar	Jamjodhpur	Jamnagar	9662745297
17	Anilbhai Sumatbhai Bamrotiya	Sadodar	Jamjodhpur	Jamnagar	9974414976
18	Hiteshbhai Laljibhai Sorathiya	Sadodar	Jamjodhpur	Jamnagar	9898353494
19	Rajabhai Hirabhai Bhusa	Sadodar	Jamjodhpur	Jamnagar	9978386247
20	Khimabhai Raghavbhai Hirpara	Sadodar	Jamjodhpur	Jamnagar	9825581821

## Cotton FLDs under KVK Scheme Kharif : 2023

(Inputs: Beauvaria -1.0 kg, S-NPV -250.0 ml, Azadirachtin -1 lit, Lambda cyhalothrin - 1 li.)

Sr.	Name	Village	Taluka	District	Mobile No.
No.					
1	Piyushbhai Chhaganbhai Kagathara	Khengaraka	Dhrol	Jamnagar	97258844404
2	Chhaganbhai Tikubhai Kagathara	Khengaraka	Dhrol	Jamnagar	9998721919
3	Ashokbhai Ajibhai Kagathara	Khengaraka	Dhrol	Jamnagar	7600881400
4	Bipinbhai Karubhai Kagathara	Khengaraka	Dhrol	Jamnagar	9998252922
5	Narendrabhai Alabhai Kagathara	Khengaraka	Dhrol	Jamnagar	9998452575
6	Becharbhai Ajibhai Kagathara	Khengaraka	Dhrol	Jamnagar	9898911891
7	Lavjibhai Parsotambhai Kagathara	Khengaraka	Dhrol	Jamnagar	9898216009
8	Jigneshsinh Ajitsinh Jadeja	Khengaraka	Dhrol	Jamnagar	9724558542
9	Rameshbhai Ambabhai Kagathara	Khengaraka	Dhrol	Jamnagar	9727080933
10	Divyrajsinh Vijaysinh Jadeja	Khengaraka	Dhrol	Jamnagar	7600249053
11	Dayaljibhai Devjibhai Gadara	Khengaraka	Dhrol	Jamnagar	9724558499
12	Pravinsinh Batukbha Jadeja	Khengaraka	Dhrol	Jamnagar	9898336560
13	Dahyabhai Ramjibhai Gadara	Khengaraka	Dhrol	Jamnagar	9998257709
14	Jayntibhai Ajibhai Kagathara	Khengaraka	Dhrol	Jamnagar	7046634668
15	Prafulbhai Bhavanbhai Kagathara	Khengaraka	Dhrol	Jamnagar	9429119914
16	Dhirubhai Mohanbhai Bhalodiya	Khengaraka	Dhrol	Jamnagar	7600881099
17	Mahendrabhai Muljibhai Chhatrara	Jayva	Dhrol	Jamnagar	9428016802
18	Tejabhai Odhabhai Sinojiya	Jayva	Dhrol	Jamnagar	9727412506
19	Dineshbhai Nanjibhai Raparaka	Jayva	Dhrol	Jamnagar	9824361427
20	Damjibhai Tejabhai Chhatrara	Jayva	Dhrol	Jamnagar	9725673639

21	Hansrajbhai Popatbhai Mungara	Jayva	Dhrol	Jamnagar	9927942830
22	Arvindbhai nanjibhai Ghetiya	Kharva	Dhrol	Jamnagar	9714932250
23	Devshibhai Nanjibhai Sapovadiya	Kharva	Dhrol	Jamnagar	9979975590
24	Hareshbhai Shamjibhai Sapovadiya	Kharva	Dhrol	Jamnagar	9879065276
25	Bhagvanjibhai Jethabhai Hinsu	Kharva	Dhrol	Jamnagar	9228210268

## ATIC-Brinjal (GRB-5) (Rabi 2023-24) 2 ha. 5 farmers

(Inputs: Brinjal GRB-5 seed – 25 gm)

Sr.No.	Name	Village	Taluka	District	Mobile No.	
1	Thakarshibhai Rupabhai Parmar	Dhrol	Dhrol	Jamnagar	9979360540	
2	Maganbhai Kachrabhai Nakum	Dhrol	Dhrol	Jamnagar	9426780996	
2	Natuhha Phagyaniikha ladaia	Sodha	Khamhhaliya	Devbhumi 07126	0712612242	
3	Natubila Bilagvalijibila Jaueja	Targhadi	Khamphaliya	Dwarka	Dwarka	9712015545
4	Devrambhai Madhabhai Rathod	Singach	Lalpur	Jamnagar	9978756436	
E	Masura Bharmalbhai Mansurbhai	Parodiya	Khamhhaliwa	Devbhumi	0722207620	
5			Kildifibildilya	Dwarka	3723207030	

### Kitchen gardening – KVK, Kharif- 2022, Ha.-4, No. of Farmers-50

**(Inputs : Different vegetable seed packets -** Brinjal GRB-7; Lady's Finger GJO-6; Valor GJIB-11; Sponge Gourd GJSG-2; Indian beans GJIB-2; Cucumber Gujarat-1, Cow pea AVC-1, Tomato GT-6, Bottle Gourd-Pusa Navin; Cluster beans(PNB); Bitter Gourd; Ridge Gourd(GRB-2); Spinach, Amaranths, Chilli, Radish and Beauveria Bassiana )

S.N.	Farmer name	Village	Taluka	District	Mobile No.
1	Baraiya Arpitaben hasmukhbhai	Mansar	Dhrol	Jamnagar	
2	Gadara Ramaben Pravinbhai	Mansar	Dhrol	Jamnagar	8511419048
3	Gadara Manjuben Chhaganbhai	Mansar	Dhrol	Jamnagar	
4	Vijyaben Vallabhbhai Ramoliya	Mansar	Dhrol	Jamnagar	7567726301
5	Samjuben Aanandbhai Baraiya	Mansar	Dhrol	Jamnagar	9727672162
6	Ramoliya Chandrikaben	Mansar	Dhrol	Jamnagar	9978392983
	Ashvinbhai				
7	Shilpaben Pravinbhai Kagathara	Mansar	Dhrol	Jamnagar	9979462546
8	Jashuben Ganeshbhai Baraiya	Mansar	Dhrol	Jamnagar	7048222869
9	Lataben Sundarajibhai Baraiya	Mansar	Dhrol	Jamnagar	9913393450
10	Jignashaben Piyushbhai Kagathara	Mansar	Dhrol	Jamnagar	6354903819
11	Savitaben Murjibhai Viramgama	Mansar	Dhrol	Jamnagar	9727622526
12	Pravinaben Harsukhbhai Baraiya	Mansar	Dhrol	Jamnagar	9979046361
13	Veliben Premjibhai Ramoliya	Mansar	Dhrol	Jamnagar	9725990993
14	Meenaben Dilipbhai Ramoliya	Mansar	Dhrol	Jamnagar	8128772252
15	Ranjanben Sureshbhai Ramoliya	Mansar	Dhrol	Jamnagar	9712581209
16	Geetaben Rasikbhai Gadara	Mansar	Dhrol	Jamnagar	7228818336
17	Sonalben Raghavjibhai Bhundiya	Mansar	Dhrol	Jamnagar	9978267103
18	Manjulaben Lakhmanbhai Bediya	Mansar	Dhrol	Jamnagar	
19	Jamkuben Karamashibhai Baraiya	Mansar	Dhrol	Jamnagar	
20	Rajniben Dheerubhai Ramoliya	Mansar	Dhrol	Jamnagar	9726161029
21	Hansaben Laljibhai Bediya	Mansar	Dhrol	Jamnagar	
22	Rasilaben Chandubhai Bediya	Mansar	Dhrol	Jamnagar	9879126973
23	Gauriben Kantilal Ramoliya	Mansar	Dhrol	Jamnagar	9974013686
24	Jasuben Mansukhbhai Bediya	Mansar	Dhrol	Jamnagar	9712672244
25	Neetaben Jiteshbhai Viramgama	Mansar	Dhrol	Jamnagar	9998890813
26	Kanchanben Hasmukhbhai Bhuva	Sonvadiya	Jamjodhpur	Jamnagar	9408164774
27	Urvishaben Kevalbhai Bavariya	Sonvadiya	Jamjodhpur	Jamnagar	9879322944

	1	1		1	
28	Narmadaben Gordhanbhai	Sonvadiya	Jamjodhpur	Jamnagar	9408238125
	Sapariya				
29	Radhuben Mukeshbhai Kadivar	Sonvadiya	Jamjodhpur	Jamnagar	9409698473
30	Beenaben Kiritbhai Kadivar	Sonvadiya	Jamjodhpur	Jamnagar	6353867334
31	Hansaben Chandubhai Bechara	Sonvadiya	Jamjodhpur	Jamnagar	9824409268
32	Geetaben jentibhai Ramani	Sonvadiya	Jamjodhpur	Jamnagar	9727161513
33	Jayshriben Rupeshbhai Sapariya	Sonvadiya	Jamjodhpur	Jamnagar	9712276472
34	Manjuben Raydebhai Vasara	Sonvadiya	Jamjodhpur	Jamnagar	7862900963
35	Kantaben Ashvinbhai Bechara	Sonvadiya	Jamjodhpur	Jamnagar	9408535029
36	Champaben Sureshbhai Javiya	Sonvadiya	Jamjodhpur	Jamnagar	9327035114
37	Bhartiben Narendrabhai makavana	Sonvadiya	Jamjodhpur	Jamnagar	6351425312
38	Payalben Punitbhai Javiya	Sonvadiya	Jamjodhpur	Jamnagar	7016830049
39	Ilaben Rajeshbhai Padaliya	Sonvadiya	Jamjodhpur	Jamnagar	7862954949
40	Manjulaben Kishorbhai Ramani	Sonvadiya	Jamjodhpur	Jamnagar	9408230496
41	Dakshaben Sureshbhai Javiya	Sonvadiya	Jamjodhpur	Jamnagar	9904852401
42	Dakshaben Ashokbhai Kadivar	Sonvadiya	Jamjodhpur	Jamnagar	9016068864
43	Chetnaben Sohagbhai Bavariya	Sonvadiya	Jamjodhpur	Jamnagar	9427572064
44	Varshben Denishbhai Kadavala	Sonvadiya	Jamjodhpur	Jamnagar	8141588343
45	Rinkalben Dharmeshbhai Javiya	Sonvadiya	Jamjodhpur	Jamnagar	7862951030
46	Chandrikaben Manjibhai Javiya	Sonvadiya	Jamjodhpur	Jamnagar	8799097874
47	Chetnaben Bhupatbhai Kadivar	Sonvadiya	Jamjodhpur	Jamnagar	9408251620
48	Shilpaben Sagarbhai Kadivar	Sonvadiya	Jamjodhpur	Jamnagar	7016058978
49	Vanitaben Devendrabhai Bechara	Sonvadiya	Jamjodhpur	Jamnagar	9409390581
50	Vibhaben Dharmeshbhai Bechara	Sonvadiya	Jamjodhpur	Jamnagar	9316135409

## KVK-Cotton Picking Apron (Kharif :2023-24) 2 ha. 5 farmers

(Inputs: Cotton Picking Apron -1)

S.N.	Farmer name	Village	Taluka	District	Mobile No.
1	Chovatiya Ansuyaben Gulabbhai	Mota Thavariya	Jamnagar	Jamnagar	9998181331
2	Induben Kamleshbhai Chovatiya	Mota Thavariya	Jamnagar	Jamnagar	9723477488
3	Narmadaben Pravinbhai Chovatiya	Mota Thavariya	Jamnagar	Jamnagar	9714015632
4	Bansiben Gopalbhai Chovatiya	Mota Thavariya	Jamnagar	Jamnagar	7890500357
5	Joshnaben Bharatbhai Chovatiya	Mota Thavariya	Jamnagar	Jamnagar	9924028829

## KVK- Solar cooker (2023-24) 5 farm women

(Inputs: Solar cooker -1)

S.	Farmer name	Village	Taluka	District	Mobile No.
No.					
1	Aghera Kailasben Devjibhai	Katda	Dhrol	Jamnagar	9913596922
2	Aghera Nehalben Maheshkumar	Katda	Dhrol	Jamnagar	9558842421
3	Akbari Bhavanaben Hareshbhai	Katda	Dhrol	Jamnagar	9725809520
4	Marakana Meenaben Dipakbhai	Katda	Dhrol	Jamnagar	7096729234
5	Aghera Asmitaben Amarashibhai	Katda	Dhrol	Jamnagar	9081348153

### **10.3 Result of Technical Project Proposal (Home Science)** Technical Project 1 (Home Science)

## Title : Knowledge of farm women about kitchen gardening in Jamnagar and Devbhumi Dwarka districts

Principle investigator

1. Smt. A. K. Baraiya Scientist (Home Science), KVK, JAU, Jamnagar Co-investigator

- 1. Dr. K. P. Baraiya, Senior Scientist & Head, KVK, JAU, Jamnagar
- 2. Dr. N. B. Jadav, Director of Extension Education, JAU, Junagadh
- 3. Dr. H. M. Gajipara, Ex. Director of Extension Education, JAU, Junagadh

### **INTRODUCTION :**

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. The importance of vegetables in daily diets and its low availability, the Krishi Vigyan Kendra has conducted various training and demonstrations on kitchen gardening in an entire districts. Keeping in this view, it is worthwhile to measure the knowledge and adoption level of kitchen gardening beneficiaries.

### **OBJECTIVES**

- 1. To study the profile of respondents
- 2. To measure the knowledge level of farm women about kitchen gardening
- 3. To access adoption level of respondents about kitchen gardening
- 4. To identify the constraints faced by respondents in adoption of kitchen gardening

### METHODOLOGY

The study was conducted in Jamnagar and Devbhumi Dwarka districts. In which three blocks Jodia, Dhrol of Jamnagar District and Khambhaliya of Devbhumi Dwarka district were selected purposively based on kitchen gardening beneficiaries. From each block five villages were selected and from each selected villages twenty women respondents were selected randomly for the study. Thus, total 300 women was constituting the sample size for this study. For collection of the data personal interview technique was used. Data was collected with the help of structured interview schedule. Frequencies, percentage and mean score was used for analysing the data statistically.

District Name	Taluka	Village Name	No. of
	Name		Respondent
Jamnagar	Jodiya	Bhadara, Kesiya,Jodia, Anada, Limbuda	100
Jamnagar	Dhrol	Khengaraka, Katda, Jayva, Majoth, Mansar	100
Devbhumi Dwarka	Khambhaliya	Samor, Kesod, Zakasiya, Viramdad, Shaktinagar	100
Total	3	15	300

### **RESULTS AND DISCUSSION**

### 1. Profile of the respondents

Table 1:	Persor	nal Characteristics of respondents Rural Women		(n=300)
Sr. No.	Perso	onal Characteristics	Frequency	Percentage
1	Age			
	a)	Young age (18 – 35 years)	70	23.33
	b)	Middle age (36 – 50 years)	188	62.67
	c)	Old age (50 above)	42	14.00
2	Educ	ation		
	a)	Illiterate	12	4.00
	b)	Primary (up to VII Std.)	59	19.67
	c)	Secondary School (VIII to X Std.)	78	26.00
	d)	Higher Secondary (XI &XII Std.)	48	16.00
	e)	Graduate	84	28.00
	f)	Post graduate	19	6.33
3	Fami	ily structure		
(i)	Fami	іу Туре		
	a)	Nuclear	147	49.00
	b)	Joint	153	51.00
(ii)	Fami	ly Size		
	a)	Small (up to 4)	144	48.00
	b)	Medium (5-8)	141	47.00
	c)	Large (above 8)	15	5.00
4	Occu	ipation		
	a)	Farming	123	41.00
	b)	Farming + Animal Husbandry	127	42.33
	c)	Farm Labour	12	4.00
	d)	Farming + other activity	38	12.67
5	No.	of animals		
	a)	No animal	173	57.67
	b)	Up to 1 animals	65	21.67
	c)	2 to 5 animals	41	13.67
	d)	Above 5 animals	21	7.00
6	Annı	ual income		
	a)	Low annual income (up to Rs. 1 Lakh)	15	5.00

b)	Medium annual income (Rs. 1 to 2 lakh)	132	44.00
c)	High annual income (Rs. 2 to 5 Lakh)	99	33.00
d)	Very high annual income (Above Rs. 5 Lakh)	54	18.00

Table 1 revealed that the majority (62.67 per cent) of respondents were middle age group (36 to 50 years), while, 23.33 per cent and 14.00 percent of the respondents were from young age group (18 to 35 years) and old age group (above 50 years), respectively.

In case of education level 28.00 per cent of the respondents educated up to graduate level, 26.00 per cent of the respondents educated secondary school level, while, 19.67 per cent respondents from primary standards group, 16.00 per cent respondents were from higher secondary and only 06.33 per cent of respondents educated up to post graduate and 04.00 per cent respondents were illiterate.

Looking to the family structure, 51.00 per cent respondents lived in joint family, followed by 49.00 per cent respondents were lived in nuclear family. Similar way, 48 per cent of the respondents had small size of family followed by 47 per cent and 05.00 per cent respondents had medium and large size of the family, respectively.

According to family occupation the majority (42.33 per cent) of farm women were engaged in agriculture + animal husbandry field, whereas 41.00 per cent of farm women were engaged in agriculture, 12.67 per cent of farm women in farming + service and only 04.00 per cent of farm women were engaged as farm labor. Along with the occupation number of animal keeping groups only 07.00 per cent farm women have more than 5 animals, 13.67 per cent farm women having 2 to 5 animals, 21.67 per cent farm women having only one animal and more than half (57.67 per cent) of farm women having no animals.

According to annual income majority (44 per cent) had medium annual income (Rs. 1 to 2 lakh) followed by, 33 per cent and 18 per cent had high annual income (Rs. 2 to 5 Lakh) and very high annual income (Above Rs. 5 Lakh), respectively. Only 05.00 per cent had very low annual income (up to Rs. 1 Lakh).

## 2. Use of Mass media for increasing the knowledge

How frequently do you use the following mass media for kitchen gardening cultivation? Table 2: Distribution of respondents according to their use of mass media (n=300)

Sr.	Mass Media Exposure	Regularly	Once in a	Frequently	Not at	Mean	Rank
No.		(4)	week (3)	(2)	all (1)	Score	
1	Radio	0	2	7	291	1.04	IX
2	Television	148	60	54	38	3.06	II
3	News paper	4	16	124	156	1.56	V
4	Printed literature	15	52	120	113	1.89	IV
5	Agril. Exhibition	2	4	85	209	1.33	VIII
6	Demonstration	0	0	118	182	1.39	VI
7	University level (KVK)	40	64	34	162	1.94	
8	Kisan call center	0	0	103	197	1.34	VII
9	Social media	162	68	40	30	3.20	I

It can be concluded from table 2, social media was proved the most favorite of each and every woman. It stands on first rank for media usage with 3.20 mean score. Another media usages

chronologically, television stand second rank (3.06), University level (KVK) stand third rank (1.94), printed literature stands fourth rank (1.89), visit to newspaper stand fifth rank (1.56), demonstration in village were stand sixth rank (1.39), kishan call centre stands on seventh rank (1.34), agricultural exhibition stand on eighth rank (1.33) and radio stand last rank (1.04) for mass media usage by farm women. These finding can be proven that very few respondents were use radio.

### 3. Knowledge of farm women regarding kitchen gardening

In India nearly 75.00 per cent of the population lives in rural areas. These rural women especially belonging to agricultural families are mostly engaged in agriculture activities with household responsibilities like kitchen gardening, animal keeping, cooking, cleaning, care of family members especially children and adults.

In the present study knowledge refers to know-how about the different practices of kitchen gardening adopted by the farm women. Adequate knowledge is essential to farm women for the successful and profitable kitchen gardening. It was therefore thought necessary to obtain information from the farm women regarding knowledge about kitchen gardening. The data regarding level of knowledge are given in table 3.

Table 3: Distributio	ו of	respondents	according	to	their	level	of	knowledge	regarding	kitchen
gardening									(n=	300)

Sr. No.	Level of Knowledge	Frequency	Per cent
1	Low level of knowledge	52	17.33
	( <mean s.d.)<="" th="" –=""><th>(up to 6.34)</th><th></th></mean>	(up to 6.34)	
2	Medium level of knowledge	204	68.00
	(Mean ± S.D.)	(6.34 to 12.11)	
3	High level of knowledge	44	14.67
	(>Mean + S.D.)	(above 12.11)	
	Total	300	100
Mean = 9	Mean = 9.23		S. D. = 2.89

It can be observed from the table 3 that majority (68.00 per cent) of the farm women had medium level of knowledge regarding kitchen gardening, while 17.33 per cent and 14.67 per cent of the farm women had low and high level of knowledge regarding kitchen gardening, respectively. The probable reason might be that most of the farm women were educated and medium level of mass media exposure, so that they could easily understand and acquire skills and knowledge about kitchen gardening.

### 4. Adoption of farm women regarding kitchen gardening

Adoption level of farm women regarding kitchen gardening was calculated based on maximum score obtained by them. Farm women were classified into three categories on the basis of mean and standard deviation as low, medium and high adoption.

 Table 4: Distribution of respondents according to their level of knowledge regarding kitchen gardening.
 (n=300)

Sr. No.	Level of Adoption	Frequency	Per cent
1	Low level of adoption	52	18.67
	( <mean s.d.)<="" th="" –=""><th>(up to 6.27)</th><th></th></mean>	(up to 6.27)	

2	Medium level of adoption	204	65.33
	(Mean ± S.D.)	(6.27 to 12.49)	
3	High level of adoption	44	16.00
	(>Mean + S.D.)	(above 12.49)	
	Total	300	100
Mean = 9.38			S. D. = 3.11

It can be observed from the table 4 that majority (65.33 per cent) of the farm women had medium level of adoption regarding kitchen gardening, while 18.67 per cent and 16.00 per cent of the farm women had low and high level of adoption regarding kitchen gardening, respectively. The probable reason might be that most of the farm women were educated, they had medium level of mass media exposure and knowledge regarding the kitchen gardening.

### 5. Association between level of knowledge about kitchen gardening and profile of the respondents

In the present study the knowledge of farm women regarding kitchen gardening was considered as dependent variable. The selected characteristics were considered as independent variables. The correlation co-efficient (r value) was used with a view to find out the relationship between dependent and independent variables.

		(
Sr. No.	Name of independent variable	r - Value
1	Age	-0.1159*
2	Education	0.2123**
3	Family type	0.1038 <sup>NS</sup>
4	Family size	0.0940 <sup>NS</sup>
5	Occupation	0.1352*
6	No. of animals	0.1239*
7	Annual income	0.1460*
8	Use of mass media	0.2025**

 Table 5: Correlation between knowledge about kitchen gardening and the independent variable

 (n=300)

The data presented in table 5 revealed that there was negative and significant relationship between the age and knowledge of farm women regarding kitchen gardening. Education and use of mass media had positive and highly significant relationship with the knowledge regarding kitchen gardening. While, occupation, no. of animals and annual income had positive and significant relationship with the knowledge. Family type and family size had non-significant relationship with the knowledge of farm women regarding kitchen gardening.

### 6. Association between level of adoption about kitchen gardening and profile of the respondents

In the present study the level of adoption of farm women regarding kitchen gardening was considered as dependent variable. The selected characteristics were considered as independent variables. The correlation co-efficient (r value) was used with a view to find out the relationship between dependent and independent variables.

			(n=300)
Sr. No.	Name of independent variable	r - Value	
1	Age	-0.1242*	
2	Education	0 2056**	

Table 6: Correlation between adoption about kitchen gardening and the independent variable

1	Age	-0.1242*
2	Education	0.2056**
3	Family type	0.0670 <sup>NS</sup>
4	Family size	0.1040 <sup>NS</sup>
5	Occupation	0.1275*
6	No. of animals	0.1365*
7	Annual income	0.1196*
8	Use of mass media	0.1563**

The data presented in table 6 revealed that there was negative and significant relationship between the age and adoption of farm women regarding kitchen gardening. Education and use of mass media had positive and highly significant relationship with the adoption regarding kitchen gardening. While, occupation, no. of animals and annual income had positive and significant relationship with the adoption. Family type and family size had non-significant relationship with the adoption of farm women regarding kitchen gardening.

### 6. Major constraints perceived in the establishment of kitchen gardening

Constraints in establishment of kitchen gardening never end. However, they can be minimized. The farm women were requested to express the constraints faced by them in adoption of kitchen gardening. Frequency and percentage for each constraint were calculated and on that basis, the constraints were ranked and presented in table 6.

Sr. No.	Constraints	Frequency	Percentage	Rank
1	Water crises for irrigation	189	63.00	
2	Lack of technical knowledge about kitchen gardening	137	45.67	V
3	Difficult to control of pest and diseases in kitchen gardening	250	83.33	I
4	Lack of awareness about nutritional value of vegetable	154	51.33	IV
5	Less priority to kitchen gardening as compare to other farm activity	233	77.67	II

Table 6: Constraints perceived in the establishment of kitchen gardening

(n=300)

The different constraints faced by the farm women in establishment of kitchen gardening were; difficult to control of pest and diseases in kitchen gardening was ranked first (83.33 per cent); less priority to kitchen gardening as compare to other farm activity was ranked second (77.67 per cent); water crises for irrigation was ranked third (63.00 per cent); lack of awareness about nutritional value of vegetable was ranked fourth (51.33 per cent) and lack of technical knowledge about kitchen gardening was ranked fifth (45.67 per cent).

## Suggestions from respondents to overcome the constraints faced by them in establishment of kitchen garden (n=300)

An attempt was made to ascertain the suggestions from farm women to overcome various constraints faced by them in establishment of kitchen garden. The farm women were requested to offer their valuable suggestions against difficulties faced by them in the establishment of kitchen garden. The data were collected and summarized in table 7.

Sr.	Suggestions	Frequency	Percentage	Rank
No.				
1.	Arrange training on kitchen gardening and nutritional	242	80.67	I
	management in crop growing			
2.	Give training on reduce hazardous effect of chemical	214	71.33	П
	fertilizers and pesticides on human health through			
	kitchen gardening			
3.	Training on natural farming techniques for IPM and IDM.	200	66.68	Ш
4.	Training on nutritional value of vegetables from kitchen gardening	172	57.33	IV
5.	Training on effect of pesticides causes diseases in human	146	48.67	V
	being and animals			

### Table 7: Suggestions given by the respondents to overcome constraints faced by them (n=300)

The data in table 7 revealed that the valuable suggestions given by respondents to overcome the constraints faced by them in establishment of kitchen garden were; arrange training on kitchen gardening and nutritional management in crop growing was ranked I (80.67 per cent); give training on reduce hazardous effect of chemical fertilizers and pesticides on human health through kitchen gardening was ranked II (71.33 per cent); training on natural farming techniques for IPM and IDM was ranked III (66.68 per cent); training on nutritional value of vegetables from kitchen gardening was ranked IV (57.33 per cent) and training on effect of pesticides causes diseases in human being and animals was ranked V (48.67 per cent).

### CONCLUSION

It can be concluded that the majority of farm women belonged to the middle age group, had educated up to graduation level, majority of farm women doing farming along with animal husbandry practices, more than half population have no animals, majority of farm women had medium annual income ranges from 1 to 2 lakhs, majority lived in small family but they belong to a joint family also. Social media and television are the important source of mass media for knowledge gain. Majority of the respondents had medium level of knowledge and adoption about kitchen gardening. Variables like use of mass media, education, no. of animals annual income and occupation had positive and significant relationship with the knowledge and adoption regarding kitchen gardening. Majority of farm women faced constraints like difficult to control pest and diseases in kitchen gardening, less priority to kitchen gardening as compare to other farm activity and water crisis for irrigation. Suggestions given by the farm women were arrange training on kitchen gardening and nutritional management in crop growing, give training on reduce hazardous effect of chemical fertilizers and pesticides on human health through kitchen gardening.

### MESSAGE

Create awareness about kitchen gardening, extension functionaries should advised to conduct training programme on kitchen gardening and selection of trainee based on higher education, more numbers of animal possession and more mass media contact farmers.

## ANNUAL ACTION PLAN

(January 2024 to December 2024)

## KRISHI VIGYAN KENDRA JUNAGADH AGRICULTURAL UNIVERSITY, JAMNAGAR

## 1. Details of Operational area/ Villages (2024 to 2026)

SI No	Taluka	Name of the village	Major crops & enterprises	Major problem identified	Identified thrust area
1	Jodia	Vavadi,	Cotton,	Heavy infestation	- ICM in major crops of the
		Beraja, Bhadra,	groundnut,	of sucking pest in	district
		Bhimkata,	sesame, castor,	cotton, stem rot	<ul> <li>Organic crop production</li> </ul>
		Manamora	greengram,	disease &	<ul> <li>Introduction of new crop</li> </ul>
2	Lalpur	Nani Rafudad,	wheat, Gram,	whitegrub in	<ul> <li>Recycling of farm waste</li> </ul>
		Vadpanchasara,	cumin, Ajwain,	Groundnut, Root	<ul> <li>Popularization of MIS</li> </ul>
		Baghla, Nanduri,	mustard,	rot in castor, Less	<ul> <li>Soil Reclamation</li> </ul>
		Ishwariya	Soyabean,	area under	- Farm women
3	Dwarka	Tunpani,	Vegetable, Fruit	horticulture crops,	empowerment
		Gorinja,	crops	Blight in cumin,	<ul> <li>Farm mechanization</li> </ul>
		Positra, Vasai,	flowers, live-stock	salinity, pink	<ul> <li>Natural farming</li> </ul>
		Kalyanpur	etc	bollworm in cotton	<ul> <li>Value addition</li> </ul>

### 2. Priority thrust areas

SI. No	Crop/ Enterprise	Thrust area			
1.	Cotton, groundnut, castor, cumin, coriander, wheat, vegetables, fruits, etc.	<ul> <li>Integrated Crop Management in major crops</li> <li>IPM &amp; IDM in major field crops</li> <li>Whitegrub management in Groundnut</li> <li>Wireworm management in garlic &amp; Onion</li> <li>Micronutrient management in wheat</li> </ul>			
2.	Organic/Natural farming	Enhancement of organic/natural 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.	Improved Implements	Popularization of the mechanized technological know how			
8.	Plant protection	Pinkboll worm in cotton and white grub in groundnut,			
9.	Horticultural area	Enhancement of pomegranate, date palm, draganfruit,			
10	Storage facility	Requirement of storage techniques and value addition in farm produce			
11.	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 / Summary of targeted mandatory activities by KVK

0	FT	FLD				
(	1)	(2)				
Number of OFTs	Number of Farmers	Area (ha)	Number of Farmers			
4	12	178.4	491			

Trai	ning	Extension	Activities		
	3)	(4)			
Number of Courses	Number of Participants	Number of activities	Number of participants		
36	1440	229	17557		

Seed Production (Qtl.)	Planting material (Nos.)	Fish seed prod. (kg)	Soil Samples
(5)	(6)	(7)	(8)
138.50	1700	0	350

### 3.2. Details of On Farm Trial / Technology Assessment/Refinement during 2023

S. No.	Crop/ enterprise	Prioritized problem	Title of OFT
1	Brinjal	Infestation of sucking pests in Brinjal	Management of Brinjal whitefly
2	Chickpea	Low yield in existing variety, Enhancing productivity	Assessment of suitable high yielding Chickpea Variety in Rabi season for Jamnagar
3	Groundnut	Heavy incidence of leaf spot & rust in later stage	Management of foliar diseases in groundnut
4	Home Science	Anemia due to iron deficiency and Arthritis due to calcium deficiency in women	Assessment of hemoglobin and calcium level through drumstick leaf powder and amla

## **B. Details of On Farm Trial / Technology Assessment during 2024**

S. No.	Crop/ enterpri se	Prioritize d problem	Title of OFT	Technology options	Source of Techn ology	Name of critica l input	Qty per trial	Cost per trial	No. of trials	Total cost for the OFT (Rs.)	Parameters to be studied	Team memb ers
1	Brinjal	Heavy infestati on of	Manage ment of brinial	(Farmers practices). Injudicious use of insecticides. (Spray insecticides at weekly interval)	FP				3		1.Record no. of	Dr. K.P.B araiy
		leaf sucking pest was found	whitefly	2. <b>Recommendation)</b> Three sprays of chlorantraniliprole 18.5 SC, 0.002 %, 1.08 ml/10 litre water at 15 days interval starting from the pest infestation are recommended under South Saurashtra Agro-climatic Zone. The PHI for chlorantraniliprole 18.5 SC, 0.002 % is one day.	SAU	chlor antra nilipr ole	30 ml	500	3	1500	leaf 2. Yield data.	а

				2 (Definement 1) Course of	T	Deer	24-	220	2	660		
				3. (Remement 1) Spray of Reguveria bassigna 1 15 WP	-	Beur	z kg	220	3	000		
				$(Min_2 \times 106 \text{ cfu}/\text{g}) 0.007 \% (60)$		a						
				g/10 litre of water), first spray at		bassi						
				pest initiation and subsequent		ana						
				four spray should be given at 10								
				days interval after first spray								
				4. (Refinement 2) Spray of	-	Difen	1 kg	900	3	1800		
				Difenthuron 50% WP @ 5 g/lit		thur						
				of water at 15 days interval at		on						
2	Chialua	1	A		1.4.1.1	Cood	25	50	2	150	بينماط	
2	Спіскр	LOW	Assess	1. GJG-3	JAU,	Seed	25 ka	50	3	150	yield (kg/ba)	N.D.
	ea	yield in	ment of	2. GG-5	Juna		кд	00		00	(Kg/fid), Diant	
		existin	suitable	3. GJG-6	gaun		see				Pidfil Usiaht	diiyd
		g	high				a or				Height	
		variety	yielding				bot				(CIII) di boruoct	
		,	Chickpe								time	
		Enhan	а				vari				No of	
		cing	Variety				ety				hranchos	
		nroduc	in Rabi								por plant	
		tivity	season								per plant,	
		livily	for								node por	
											pous per plant	
			Jannag								100 seed	
			ar								weight (g)	
											Fconomic	
											s	
4	Home	Anemia	Assessme	T <sub>1</sub> – Farmer Practices	Depart	amla	3	1500	3	4500	Hemoglo	A.K.Ba
-	Science		nt of	(Existing dietary pattern)	ment	powd	-		-		hin level	raiva
			hemoglobi	[Chapati, dal, rice, butter	of	er +					Calcium	and
			n and	milk, jaggari, vegetable,	Chemi	drums						Dr.
			calcium	pulses etc. and not use of	cal	tick					level	K.P.Ba
			level	extra supplementary nutritive	Engine	leaf						raiya
			through	product in routine]	ering,	powd						
			drumstick	T <sub>2</sub> - Assessment practice: Iron	IIT,	er						
			leaf	supplements as amla powder	Hydera	a de la compañía de l						
			powder	(5 gm/day) + drumstick leaf	bad							
			and amla	powder (5 gm/day)								
			powder in									
			farm	3.Storage in Triple layer								
			women.	hermetic "Purdue Improved								
L				Crop Storage"(PICS) bags								
5	Ground	Heavy	Manage	1. Farmer's Practices:-	SAU	-	-	-	3	3600	Record	Dr.
	nut	incide	ment of	Injudicious use of fungicides.							early and	K.P.B
		nce of	foliar	Luse of hexaconazole,							late leaf	a
		leaf	disease	carbendazim, floxistrobin,							spot and	
		spot &	s in	ivietalaxyi 8 + iviancozeb 64,							rust from	
		rust in	ground	Nitaziii 48 EC, Kresoxiiii-							five	
		later	nut	11 + Tehuconazala 19 2 C							randomlv	
		stage		Chlorothalonil 75 W/P							selected	
		0-		Cymoxanil 8 + Mancozeh 64							plants	
				WP Difenconazole 25 FC							from	
				Tebuconazole +							each nlot	
				Trifloxystrobin 75 WG							at 20 60	
				Tebuconazole 25 ECl after							ar 30, 00	
				severe attack of diseases.							dave	
				2. Recommendation :-Foliar	SAU	Неха	500	190	3		uays after	
				spray of hexaconazole 5% SC		cona	ml,	0			aller	
				(10ml/10 lit water) at 40 DAS		zole	2 kg				germinati	

+ Foliar Spray of Talcum powder based <i>Pseudom</i> <i>fluorescens</i> 0.5% (2x10 <sup>6</sup> cfu/g) @ 100 gm/10 litr water at 60 and 80 DAS		5% sc, Pseu dom onas				on and at harvest stage and yield kg/ha	
3. <b>Refinement:-</b> Foliar s of Foliar Spray of Talcur powder based <i>Pseudom</i> <i>fluorescens</i> 0.5% (2x10 <sup>6</sup> cfu/g) @ 100 gm/10 litr water at 40, 60 and 80 I	pray SAU n onas e DAS.	Pseu dom onas fluor esce ns	3 kg	150 0	3		

### **OFT-1 Brinjal (Assessment)**

### Title: Management of Brinjal whitefly

**Objective:** To manage the leaf sucking pest infestation in sesame

Problem definition: attack of leaf sucking pest is increase

- Heavy infestation of leaf sucking pest was found
- Improper cultivation practices
- Lack of knowledge about pest outbreaks and its management

### Problem diagram :-

Improper cultivation practices		Irregular irrigation			
Mana granning system		Lack of knowledge about pest			
wono-cropping system		outbreaks and its management			
No adoption of	Management of	In judicious use of chemical			
recommended practices	brinjal whitefly	pesticide			
Farmer follows instruction		Lloon incidence of post and			
given by the local pesticides		disease attack			
retailer		UISEASE ALLACK			

### Treatments:

- 1. Injudicious use of insecticides. (Spray insecticides at weekly interval) (Farmers practices).
- Three sprays of chlorantraniliprole 18.5 SC, 0.002 %, 1.08 ml/10 litre water at 15 days interval starting from the pest infestation are recommended under South Saurashtra Agro-climatic Zone. The PHI for chlorantraniliprole 18.5 SC, 0.002 % is one day.(Recommendation)
- 3. Spray of *Beauveria bassiana* 1.15 WP (Min. 2 x 106 cfu/g) 0.007 % (60 g/10 litre of water), first spray at pest initiation and subsequent four spray should be given at 10 days interval after first spray. (**Refinement 1**)
- 4. Spray of Difenthuron 50% WP @ 5 g/lit of water at 15 days interval at pest initiation. (Refinement 2)

### No. of Replication: 3 (Farmers)

### **Observations:**

- 1. Record no. of whitefly per leaf.
- 2. Yield data.

### OFT:2

## **1.** Title : Assessment of suitable high yielding Chickpea Variety in Rabi season for Jamnagar District

2. Objective : To find out suitable high yielding Chickpea variety for Rabi season

### Problem definition:

1. Low yield.

- 2. Threat to the sustainability of crop production
- 3. High cost of production
- 4. Suffering from disease like wilt and stunt

### Problem diagram :-

Improper cultivation practices	Assessment of	Multi season cropping system			
Low yielding variety	suitable high	Mono-cropping system			
Heavy incidence of pest and	yielding Chickpea Variety in Rabi	Lack of knowledge about nutrient management			
disease attack	season for	In judicious use of chemical fertilizer			
In judicious use of pesticide	Jamnagar District				

### **Treatments:**

**T**<sub>1</sub> :- GJG-03 (Farmer Practices)

T₂ :- GG-05

**T**<sub>3</sub> :- GJG-06

### Characterization :-

	Year Of	Released	Maturity	Disease reaction
	Notification	For	days	
<b>T 1</b> :- GJG-03	2010	Rainfed	98	Moderately Resistant to wilt and stunt
<b>T 2</b> :- GG-05	2017	Irrigated	103	Moderately Resistant to wilt and
				resistant to stunt
<b>T 3</b> :- GJG-06	2016	Rainfed	112	Resistant to wilt and stunt

### **No. of Replication :-** 3 (Farmers)

Source of Technology: - Junagadh Agricultural University, Junagadh

Thematic area: Varietal evaluation

### **Observation:**

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

### OFT-3

### Title: Management of foliar diseases in groundnut

**Objective:** To minimize the foliar diseases (leaf spot and rust) in groundnut **Problem definition:** 

- 1. Heavy incidence of rust in later stage
- 2. Heavy incidence of leaf spot
- 3. Lack of knowledge about scheduled spray of fungicides
- 4. Problem in identification and diseases initiation
- 5. Injudicious use of fertilizer
- 6. Excess irrigation
- 7. Multi season cropping system
- 8. Mono cropping system
- 9. Overlapping of the crop's seasons
- 10. Treatment of diseases after savior attack

### Problem diagram :-

Heavy incidence of rust in later stage		Treatment of diseases after savior attack
Mono cropping system	Ivianagement of	Overlapping of the crop's seasons
Heavy incidence of leaf spot	lonar diseases	Multi season cropping system
Excess irrigation	(lear spot and rust) in groundput	Injudicious use of fertilizer
Problem in identification and	rust) in groundhut	Lack of knowledge about scheduled
diseases initiation		spray of fungicides

### **Treatments:**

- Farmer's Practices:-Injudicious use of fungicides. [use of hexaconazole, carbendazim, floxistrobin, Metalaxyl 8 + Mancozeb 64, Kitazin 48 EC, Kresoxim-Methyl 44.3 SC, Azoxystrobin 11 + Tebuconazole 18.3 SC, Chlorothalonil 75 WP, Cymoxanil 8 + Mancozeb 64 WP, Difenconazole 25 EC, Tebuconazole + Trifloxystrobin 75 WG, Tebuconazole 25 EC] after severe attack of diseases.
- Recommendation :-Foliar spray of hexaconazole 5% SC (10ml/10 lit water) at 40 DAS + Foliar Spray of Talcum powder based *Pseudomonas fluorescens* 0.5% (2x10<sup>6</sup> cfu/g) @ 100 gm/10 litre water at 60 and 80 DAS.
- 3. **Refinement:-** Foliar spray of Foliar Spray of Talcum powder based *Pseudomonas fluorescens* 0.5% (2x10<sup>6</sup> cfu/g) @ 100 gm/10 litre water at 40, 60 and 80 DAS.

### No. of Replication: 3 (Farmers)

Source of Technology: - Department of Plant Pathology, COA, JAU, Junagadh

### Thematic area: IDM

### **Observations:**

- 1. Record early and late leaf spot and rust from five randomly selected plants from each plot at 30, 60 and 90 days after germination and at harvest stage
- 2. Record yield.

### **OFT-4 Home Science**

## Title : Assessment of hemoglobin and calcium level through drumstick leaf powder and amla powder in farm women.

### **Objective :**

- 1. To assess the level of hemoglobin and calcium among farm women
- 2. To improving the hemoglobin and calcium level in farm women

### **Problem Definition :-**

- 1. Anemia
- 2. Arthritis due to calcium deficiency in women
- 3. Lake of knowledge about nutrition
- 4. Lack of awareness about balanced diet

### Treatment

T<sub>1</sub>–Farmer Practices (Existing dietary pattern) [Chapati, dal, rice, butter milk, jaggari,

vegetable, pulses etc. and not use of extra supplementary nutritive product in routine]

T<sub>2</sub>- Assessment practice-1 : Iron supplements as amla powder (5 gm/day) + drumstick leaf powder (5 gm/day)

### **No. of Replication/farmers** :- 3

**Source of Technology** : Department of Chemical Engineering, IIT, Hyderabad

**Observation** : Pre and Post (after three month)

- 1. Hemoglobin level
- 2. Calcium level

Cost of OFT : (Rs. 1500/- per person)

Α.	Details of FLDs to be organized –											
Sr.	Name of	Name of	Themati	Technolo	<b>Critical Inputs</b>	Seaso	Area	No. of	Parame	Cost per		
No.	Crop/	Variety	c area	gy		n and	(ha.)	farmers	ters	trial (Rs.)		
	Enterpris	Enterpris		demonstr		year		/Demo.	identifi			
	е	es		ated					ed			
1	Cotton	Bt. Cotton	IPM/IN	Insecticid	Azadirechtin,	Kh-24	10	25	yield	3550		
			М	e, Bio	Pheromone							
				pesticide	trap, SNPV,							
					Beauveria							
					bassiana							
2	Wheat	GW- 451/	Varieta	Variety	Seed	Rabi-	4	10	Yield	1800		
		463/513				24						
3	Ajwain	Gujarat	IPM/ID	Bio	Trichoderma,	Rabi-	4	10	Yield	1180		
		Ajwain-2	М	pesticide	Beauveria	24						
				Bio	bassiana							
				fertilizer	Azotobacter,							
					PSB, Mix							
					micronutrient	-						
4	Pearl	GHB-	Varieta	Variety	Seed	Sum-	4	10	Yield	300		
<b></b>	millet	1129	l			24						
	er Scheme			lua a na sa a	luce an average	1/11 2 4	<u> </u>	150	)/:- - _0/	2700		
5	NIVIOUP-	GJG 32	Improve	Improved	Improved	КН-24	60	150	rieia, %	3780		
	Grounan		u variety	variety,					pou			
	ul			DIU	(GJG-52),				uamage			
				Pio	anisonligo							
				fungicida	Trichoderma							
				Bio	PSB							
				fertilizer	Rhizobium.							
					Beauveria							
					bassiana							
6	NMOOP-	GTil -3/5	Improve	Improved	Improved	Sum-	20	50	Yield, %	2850		
	Sesame	/6	d Variety	Variety,	var. Seed	24			pod			
			with ICM	Bio	(GTil-3/5) <i>,</i>				damage			
				pesticide,	Beauveria							
				Bio	bassian,							
				fungicide,	Trichoderma,							
				Bio	PSB,							
				fertilizer	Azotobacter							
7	NFSM-	GG-5/7	Improve	Improved	Improved	Rabi-	20	50	Yield, %	3600		
	Chickpea		d Variety	Variety,	var.	24			pod			
			with ICM	Bio	Seed(GG-5),				damage			
				pesticide,	Beauveria							
				Bio	bassiana,							
				tungicide,	Trichoderma,							
				BIO	PSB,							
				fertilizer	Khizobium							

## 3.3 FRONTLINE DEMONSTRATIONS

Sr.	Name of	Name of	Themati	Technolo	<b>Critical Inputs</b>	Seaso	Area	No. of	Parame	Cost per
No.	Crop/	Variety	c area	gy .		n and	(ha.)	farmers	ters	trial (Rs.)
	Enterpris	Enterpris		demonstr		year		/Demo.	identifi	
	e	es		ated			10		ed	
8		Gujarat	Improve	Improved	Improved	Sum	10	25	Yield, %	2000
	Віаск	Urad 2	d Variety	variety,	var. Seed	24			pod	
	Gram	(GU 2)	with ICM	BIO	(GU-2),				damage	
				pesticide,	Beauveria					
				BIO	bassiana,					
				fungicide,	Trichoderma,					
				Bio	PSB,					
				fertilizer	Rhizobium		_			
9	ATIC	GCH-9	Varietal	Variety	Seed (GCH-9)	Kh-24	8	20	Yield	600
	Castor									
10	ATIC	GC-5	ICM	Improved	Seed,	Rabi-	8	20	Yield	1930
	Cumin			seed Bio	Beauveria	24				
				pesticide	bassiana,					
				Bio	PSB,					
				fertilizer	Azotobector					
					Trichoderma,					
					Yello sticky					
					trap					
11	ATIC	GC-3	ICM	Improved	Seed, PSB,	Rabi-	8	20	Yield	950
	Coriander			variety,	Azotobector,	24				
				Bio	Beauveria					
				pesticide	bassiana,					
				Bio	Trichoderma,					
				fertilizer	Yello sticky					
					trap					
12	ΑΤΙϹ	GJBH-4	Varietal	Variety	Seed	Rabi-	2	5	Yield	750
	Brinjal					24				
13	Natural	Wheat	INM	Jivamrut	Materials for	Rabi-	6.4	16	Yield	2820
	farming				jivamrut	2024				
14					Total		174.4	436		

## C. Details of FLD on Enterprises

## a. Farm Implements

Crop	Season and year	No. of farme rs	Area (ha)	Critical inputs	Performance parameters / indicators	Cost per trial (Rs.)
Cotton	Kharif- 24	5	2	Apron	Picking efficiency	500
	<b>Crop</b> Cotton	SeasonCropandyearyearCottonKharif-24	SeasonNo. ofAndfarmeyearrsCotton24	SeasonNo. of farmeArea (ha)2000100100100CottonKharif- 2452	SeasonNo. of farme yearArea (ha)Critical inputsCrotomKharif- 2452Apron	SeasonNo. of farme yearArea (ha)Critical inputsPerformance parameters / indicatorsCrotonKharif- 

### b. FLD on Other enterprises

Enterprise	Name of the technology demonstrated	No. of farmers	No. of units	Critical inputs	Performance parameters / indicators	Cost per trial (Rs.)
Kitchen	Nutritional	50	2 ha	Vegetable seeds,	Yield	350
gardening	gardening			Beauveria bassiana		

# **3.4. TRAINING (INCLUDING THE SPONSORED AND FLD TRAINING PROGRAMMES): ON Campus**

	No. of	No. of participant							
	couses		others			SC/ST		Grand	
(A) Farmers & Farm Women		Male	Femal	Total	Male	Female	Total	Total	
			е						
I Crop Production	2	55	0	55	5	0	5	60	
II Horticulture	1	0	30	30	0	0	0	30	
III Soil Health and Fertility Management	1	25	0	25	5	0	5	30	
IV Livestock Production and Management	1	0	30	30	0	0	0	30	
V Home Science/Women empowerment	2	0	50	50	0	10	10	60	
VI Agril. Engineering	0	0	0	0	0	0	0	0	
VII Plant Protection	5	140	0	140	10	0	10	150	
VIII Fisheries	0	0	0	0	0	0	0	0	
IX Production of Inputs at site	1	30	0	30	0	0	0	30	
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	250	110	360	20	10	30	390	
(B) RURAL YOUTH	1	0	25	25	0	5	5	30	
(C) Extension Personnel	1	25	0	25	5	0	5	30	
Grand Total (A+B+C)	15	275	135	410	25	15	40	450	

## **Off Campus**

	No. of	f No. of participant							
(A) Farmers & Farm Women	couses	others SC/ST						Grand	
		Male	Female	Total	Male	Female	Total	Total	
I Crop Production	3	135	10	145	5	0	5	150	
II Horticulture	1	40	0	40	10	0	10	50	
III Soil Health and Fertility	2	110	25	1/15	Ц	0	5	150	
Management	5	110	33	145	5	0	5	150	
IV Livestock Production and	1	0	45	15	0	5	5	50	
Management	-	0	45	45	0	5	5	50	
V Home Science/Women	5	0	230	230	0	20	20	250	
empowerment	5	0	230	230	0	20	20	230	
VI Agril. Engineering	1	30	0	30	0	0	0	30	
VII Plant Protection	5	220	15	235	15	0	15	250	
VIII Fisheries	0	0	0	0	0	0	0	0	
IX Production of Inputs at site	1	30	0	30	0	0	0	30	
X Capacity Building and Group	0	0	0	0	0	0	0	0	
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)	20	565	335	900	35	25	60	960	
(B) RURAL YOUTH	0	0	0	0	0	0	0	0	
(C) Extension Personnel	1	25	0	25	5	0	5	30	
Grand Total (A+B+C)	21	<b>590</b>	335	925	40	25	65	990	

	No. of	No. of participant						
(A) Farmers & Farm Women	couses	s others SC/ST						Grand
		Male	Female	Total	Male	Female	Total	Total
I Crop Production	5	190	10	200	10	0	10	210
II Horticulture	2	40	30	70	10	0	10	80
III Soil Health and Fertility	4	135	35	170	10	0	10	180
Management								
IV Livestock Production and	2	0	75	75	0	5	5	80
Management								
V Home Science/Women	7	0	280	280	0	30	30	310
empowerment								
VI Agril. Engineering	1	30	0	30	0	0	0	30
VII Plant Protection	10	360	15	375	25	0	25	400
VIII Fisheries	0	0	0	0	0	0	0	0
IX Production of Inputs at site	2	60	0	60	0	0	0	60
X Capacity Building and Group	0	0	0	0	0	0	0	0
Dynamics								
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)	33	815	445	1260	55	35	90	1350
(B) RURAL YOUTH	1	0	25	25	0	5	5	30
(C) Extension Personnel	2	50	0	50	10	0	10	60
Grand Total (A+B+C)	36	865	470	1335	65	40	105	1440

## Consolidated (On + Off Campus)

Details of training programmes attached in Annexure –I

## 3.5. Extension Activities (including activities of FLD programmes)

Nature of	No. of		Farmers		Exte	nsion Off	icials	Total		
Extension Activity	activities	Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	9	190	30	220	25	10	35	215	40	255
Kisan Mela	1	250	50	300	50	20	70	300	70	370
Kisan Ghosthi	6	180	25	205	25	15	40	205	40	245
Exhibition	2	150	230	380	40	10	50	190	240	430
Film Show	15	850	350	1200	115	35	150	965	385	1350
Method demonstration	3	25	15	40	10	5	15	35	20	55
Farmers Seminar	5	150	40	190	40	10	50	190	50	240
Workshop	1	200	100	300	25	10	35	225	110	335
Group meetings	5	50	10	60	15	5	20	65	15	80
Lectures delivered as resource persons	25	3200	600	3800	1100	350	1450	4300	950	5250

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	4	0	0	0	0	0	0	0	0	0
Extension Literature	12	1100	100	1200	500	50	550	1600	150	1750
Advisory Services	50	250	50	300	100	10	110	350	60	410
Scientific visit to farmers field	20	120	10	130	30	2	32	150	12	162
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 Conveners meet	1	50	0	50	4	0	4	54	0	54
Self Help Group Conveners meetings	1	12	5	17	3	2	5	15	7	22
MahilaMandals Conveners meetings	4	8	30	38	4	25	29	12	55	67
Celebration of important days (specify)	3	400	150	550	60	80	140	460	230	690
Krishi Mahotsav	5	0	20	20	0	20	20	0	40	40
KrishiRath	1	40	0	40	20	0	20	60	0	60
Pre Kharif workshop	3	80	0	80	30	0	30	110	0	110
Pre Rabi workshop	4	100	20	120	15	3	18	115	23	138
PPVFRA workshop	1	20	10	30	10	5	15	30	15	45

Any Other (Specify)	5	220	20	240	90	10	100	310	30	340
Total	229	11485	2255	13740	2942	875	3817	14427	3130	17557

### 3.6 TARGET FOR PRODUCTION AND SUPPLY OF TECHNOLOGICAL PRODUCTS

**SEED MATERIALS** 

SI. No.	Сгор	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
		Total	138.5

### PLANTING MATERIALS

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

### **Bio-products**

SI. No.	Product Name	Species	Qua	Intity
			No/Li.	(kg)
1	Beauveria			5000
2	Trichoderma			10000
3	PSB		200	
4	Azaobactor		200	
5	Rhizobium		200	
		Total	600	15000

### LIVESTOCK

SI. No.	Туре	Breed	Qua	ntity			
			(Nos) Unit				
0	0	0	0	0			

### 4. 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	

## 5. ACTION PLAN OF INFRASTRUCTURE IN KVK

## A. Action plan of demonstration units (other than instructional farm)

SI.	Domo Unit	Year of	Area	Details of production	Expected	Remarks
No.	Denio Onit	establishment	(ha)	(expected)	Amount (Rs.)	

				Variaty	Droduco	Otv	Cost of	Gross	
				variety	FIGUUCE	Qiy.	inputs	income	
1	Crop Cafeteria	Every year	0.5	-	-	-	20000	-	
2	Vermicompost	2008	0.1	-	-	-	10000	20000	
3	Nursery	2012	0.05	Sapling	1700	No	20000	30000	

### B. Action plan of instructional farm (Crops) including seed production

		Details	of producti	on	Expected	Remarks	
Name	Area (ha)	(ex	(pected)		(Rs	.)	
of the crop	Area (IIa)	Variaty	Type of	Qty.	Cost of	Gross	
		variety	Produce	(Qtl)	inputs	income	
Cereals							
Wheat	2	GW-463	Truthful	75	50000	225000	
Pulses							
Green gram	2	GM-4	Truthful	7.5	38000	67500	
Oilseeds							
Groundnut	4	GJG-9	Breeder	55	320000	700000	
Groundnut	3.5	GJG-32	Breeder	40	280000	800000	
Sesame	2	G.Til5	TF	6	40000	115000	
Fibers							
Spices & Plantation							
crops							
Floriculture							
Fruits							
Vegetables							
Others (specify)							

6 Additional Activities Planned including sponsored projects (ProCRA / Pro SOIL/NARI/DAESI/DAMU/ DFI, etc.) / schemes during 2022-23, if involved.

## **Out scaling of Natural Farming**

S.No.	Name of the agency / scheme	Name of activity	Technical programme with quantification	Financial outlay (Rs.)	Names of the team members involved
	Out scaling	Training	10		Dr. K. P. Baraiya
1	of Natural	Awareness	25	268000	Smt. A. K. Baraiya
L	Farming	programme Demonstration	16	208000	

### Annexure - I

Date	Client	Title of the training	Durati	Nu	mbe	r of	Nu	mbe	r of	G.
	ele	programme	on in	par	ticipa	ants	5	SC/S	Т	Total
			days	Μ	F	Т	М	F	т	
Crop Production										
Quarter-1 <sup>st</sup>	PF	Seed production and storage technique through natural farming	1	30	0	30	0	0	0	30
Quarter-4 <sup>th</sup>	PF	Integrated farming system	1	25	0	25	5	0	5	30
Horticulture										
Quarter-1 <sup>st</sup>	PF	Nursery raising and its management	1	0	30	30	0	0	0	30
Soil Health										
Quarter-2 <sup>nd</sup>	PF	Importance of Soil and water testing	1	25	0	25	5	0	5	30
Livestock prod.										
Quarter-2 <sup>nd</sup>	PF	Dairy Management and Value addition of milk	1	0	30	30	0	0	0	30
Home Sc.										
Quarter-1 <sup>st</sup>	PF	Value addition in fruits, vegetables and agriculture produce for doubling farmers income	1	0	20	20	0	10	10	30
Quarter-4 <sup>th</sup>	PF	Health benefits of millets and value addition in millets	1	0	30	30	0	0	0	30
Plan Prot.										
Quarter-1 <sup>st</sup>	PF	Integrated Disease and pest management through natural farming in Rabi crop	1	30	0	30	0	0	0	30
Quarter-2 <sup>nd</sup>	PF	Management of pink bollworm in cotton & management of white grub in groundnut and other kharif crops	1	25	0	25	5	0	5	30
Quarter-3 <sup>rd</sup>	PF	Naturally management of pest and diseases in <i>kharif</i> crops	1	30	0	30	0	0	0	30
Quarter-4 <sup>th</sup>	PF	IPM in vegetable crops: onion & garlic	1	25	0	25	5	0	5	30

**TRAINING PROGRAMMES** 

Quarter-4 <sup>th</sup>	PF	Store grain pests and its management for reduction the storage loss	1	30	0	30	0	0	0	30
Fisheries										
Production of I	nputs at	site								
Quarter-4 <sup>th</sup>	PF	Production of Vermi-compost and inputs for natural farming	1	30	0	30	0	0	0	30
		Total	13	201	97	298	19	13	32	330

### ii) Farmers & Farm women (Off Campus)

Date	Clientele	Title of the training programme	Duration in days	Nu par	mbei ticipa	r of ants	Nu	mbe SC/S	r of T	G. Total
				М	F	Т	М	F	Т	
Crop Product	tion									
Quarter-1 <sup>st</sup>	PF	summer crop production practices on Natural basis	1	45	0	45	5	0	5	50
Quarter-2 <sup>nd</sup>	PF	Integrated weed management in oilseed crops	1	40	10	50	0	0	0	50
Quarter-4 <sup>th</sup>	PF	Crop production technology of Millets	1	50	0	50	0	0	0	50
Horticulture										
Quarter– 4 <sup>th</sup>	PF	Processing and value addition in Spices crop	1	40	0	40	10	0	10	50
Livestock pro	d.									
Quarter-1 <sup>st</sup>	PF	Importance of Nutrients and Feed Management in Animal Husbandry to increase milk production	1	0	45	45	0	5	5	50
Home Sc.										
Quarter-1 <sup>st</sup>	PF	Boosting immunity through fruits and vegetables and aware about Nutritional disease	1	0	50	50	0	0	0	50
Quarter-1 <sup>st</sup>	PF	food processing and value addition in fruit, vegetable, and other agricultural produce	1	0	50	50	0	0	0	50
Quarter-2 <sup>nd</sup>	PF	Income generation activities for empowerment of women	1	0	45	45	0	5	5	50

Quarter-3 <sup>rd</sup>	PF	House hold food security by kitchen gardening and nutrition gardening	1	0	40	40	0	10	10	50
Quarter-4 <sup>th</sup>	PF	Nutritional Value of Millets and design of Low/ Minimum cost diet	1	0	45	45	0	5	5	50
Agril. Engineering										
Quarter-3 <sup>rd</sup>	PF	Installation and Maintenance of micro irrigation system	1	30	0	30	0	0	0	30
Plan prot.										
Quarter-1 <sup>st</sup>	PF	IPM-IDM in rabi crops (cumin coriander and chickpea)	1	50	0	50	0	0	0	50
Quarter-1 <sup>st</sup>	PF	Storage techniques for pest management and reduction the storage loss	1	45	0	45	5	0	5	50
Quarter-2 <sup>nd</sup>	PF	Management of pink bollworm in cotton & management of white grub in groundnut and other kharif crops	1	45	0	45	5	0	5	50
Quarter-3 <sup>rd</sup>	PF	Pest and disease management in <i>kharif</i> crops through natural farming	1	40	10	50	0	0	0	50
Quarter-4 <sup>th</sup>	PF	Integrated Disease and pest management in Rabi crop	1	40	5	45	5	0	5	50
Fisheries					1				1	
Production o	f Inputs a	at site								
Quarter –3 <sup>rd</sup>	PF	Production of natural farming inputs	1	30	0	30	0	0	0	30
Soil Health				-			ī		T	
Quarter-2 <sup>nd</sup>	PF	Use of Bio fertilizer & recycling of farm waste through composting	1	45	0	45	5	0	5	50
Quarter-3 <sup>rd</sup>	PF	Integrated nutrient management in Kharif crop	1	25	25	50	0	0	0	50
Quarter-4 <sup>th</sup>	PF	Improvement of soil fertility through balance use of fertilizer	1	40	10	50	0	0	0	50
			20	565	335	900	35	25	60	960

### ii) Vocational training programmes for Rural Youth

Crop /	Identified	Training title*	Month	Duration	No. of Participants			SC/ST participants			G.Total
Enterprise	Thrust Area			(uays)	Μ	F	Т	Μ	F	Т	
Value	women	Value addition in fruits and	Feb	4	0	25	25	0	5	5	30
addition	Empowerment	vegetables									

### iii) Training programme for extension functionaries

Date	Clientele	Title of the training programme	Dura- tion in	No. of participants			Number of SC/ST			G. Total
			days	Μ	F	Т	Μ	F	Т	
On Camp										
Quarter- 2 <sup>nd</sup>	EF	Pre-seasonal training on <i>kharif</i> crops (Pigeon pea, Green gram, Groundnut, Cotton) production technology through natural resources		20	0	20	5	0	5	25
Off Campus										
Quarter- 4 <sup>rd</sup>	EF	Pre-seasonal training on <i>rabi</i> crops (Cumin, Gram, Wheat, Onion, Garlic production technology through natural resources)	2	20	0	20	5	0	5	25

### Quarter and discipline wise summary of training programme :

Discipline	Subjec		0	On-Campus				Off-Campus					
	t Code	ode Quarter				Quarter							
		I	П	Ш	IV	Total	I	II	ш	IV	Total		
(A) Farmers & Farm Women, Rural Youth													
l Crop Production	СР	1			1	2	1	1		1	3	5	
ll Horticulture	НО	1				1				1	1	2	
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	1			1	2	2	1	1	1	5	7	
VI Agril. Engineering	AEG					0			1		1	1	
VII Plant Protection	PLP	1	1	1	2	5	2	1	1	1	5	10	
VIII Fisheries	FIS					0					0	0	
IX Production of Inputs at site	PI				1	1			1		1	2	
X Capacity Building and Group Dynamics	CBD					0					0	0	
Tota	I	4	3	1	5	13	6	4	5	5	20	33	
(B) Extension Functionaries	EF		1			1				1	1	2	
(C) Rural youth	RY	1				1					0	1	
Tota		5	4	1	5	15	6	4	5	6	21	36	

ponsorea pr	ogran	hme	n	1			_			1
Sponsorin g agency	Clie ntel	Title of the training programme	No. of course	No. of	Number of SC/ST			G. Total		
	е			М	F	т	м	F	т	
Sponsore	d trai	ning progdramme								
ATMA	PF	Importance of MIS	2	80	0	80	20	0	20	100
ΑΤΜΑ	PF	Kharif crop protection and production technology	3	100	40	140	10	10	20	160
AGAKHAN	PF	INM and MIS in rabi crops	2	50	50	100	5	5	10	110
DAO	PF	Integrated pest and diseases management in cumin	1	60	0	60	0	0	0	60
ATMA	PF	IPM & IDM in groundnut, cotton crops	1	55	0	55	5	0	5	60
DAO	PF	IPM, IDM, INM in groudnnut and cotton	1	55	0	55	5	0	5	60
ATMA	PF	IPM & IDM in kharif crop	1	55	0	55	5	0	5	60
Dy.D.Hort	PF	IPM, IDM, INM in Horticultural Crops	1	55	0	55	5	0	5	60
ATMA	PF	IPM, IDM, INM in Horticultural Crops	1	55	0	55	5	0	5	60
DWDU	PF	IPM & IDM in kharif crop	1	55	0	55	5	0	5	60
ΑΤΜΑ	PF	Seed Production technology and IPM in these crops	1	55	0	55	5	0	5	60
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
Sponsore	d rese	earch programme	-							
		Total								
Any speci	al pro	ogrammes	T	T					1	
ATMA	PF	World Soil health day	1	50	50	100	10	10	20	120
ATMA	PF	Mahila Krushi Divas	1	0	100	100	0	20	20	120
		Total	2	50	150	200	10	30	40	240
	Sponsored pr Sponsorin g agency Sponsore ATMA ATMA AGAKHAN DAO ATMA DAO ATMA Dy.D.Hort ATMA DWDU ATMA Sponsore ATMA ATMA ATMA	Sponsored programSponsorin g agencyClie ntel eATMAPFATMAPFATMAPFDAOPFATMAPFDAOPFATMAPFDAOPFATMAPFDAOPFATMAPFDAOPFATMAPFDAOPFATMAPFDWDUPFATMAPFATMAPFATMAPFATMAPFATMAPFATMAPFATMAPFATMAPFATMAPFATMAPFATMAPFATMAPFATMAPFATMAPFATMAPFATMAPF	Sponsored programmeSponsorin g agencyClie eTitle of the training programmeSponsored trained eTitle of the training programmeATMAPFImportance of MISATMAPFImportance of MISATMAPFKharif crop protection and production technologyAGAKHANPFINM and MIS in rabi cropsDAOPFIntegrated pest and diseases management in cuminATMAPFIPM & IDM in groundnut, cotton cropsDAOPFIPM, IDM, INM in groudnnut and cottonATMAPFIPM, IDM, INM in Horticultural CropsDAOPFIPM, IDM, INM in Horticultural CropsDAOPFIPM, IDM, INM in Horticultural CropsDAOPFSeed Production technology and IPM in these cropsATMAPFSeed Production technology and IPM in these cropsATMAPFStorage Techniques and IPM in summer cropsATMAPFStorage Techniques and IPM in summer cropsATMAPFStorage Techniques and IPM in summer cropsATMAPFWorld Soil health dayATMAPFWorld Soil health dayATMAPFWorld Soil health dayATMAPFMahila Krushi Divas	Sponsorin g agencyClie nelTitle of the training programme courseNo. of courseSponsored resumeTitle of the training programmeNo. of courseATMAPFImportance of MIS2ATMAPFImportance of MIS2ATMAPFKharif crop protection and production technology3AGAKHANPFINM and MIS in rabi crops2DAOPFIntegrated pest and diseases management in cumin1ATMAPFIPM & IDM in groundnut, cotton crops1DAOPFIPM & IDM in groudnnut and cotton1DAOPFIPM & IDM in kharif crop1DAOPFIPM, IDM, INM in Horticultural Crops1DAOPFIPM, IDM, INM in Horticultural Crops1DAOPFIPM & IDM in kharif crop1DY.D.Hort .PFIPM, IDM, INM in Horticultural Crops1DWDUPFIPM & IDM in kharif crop1ATMAPFSeed Production technology and IPM in these crops1ATMAPFStorage Techniques and IPM in summer crops1ATMAPFStorage Techniques and IPM in summer crops1ATMAPFWorld Soil health day1AtmaPFWorld Soil health day1AtmaPFMahila Krushi Divas1	Sponsorin g agencyClie ntel eTitle of the training programme programmeNo. of courseNo. of courseSponsoreTitle of the training programmeNo. of courseMSponsoreFImportance of MIS280ATMAPFImportance of MIS280ATMAPFImportance of MIS280ATMAPFKharif crop protection and production technology3100AGAKHANPFINM and MIS in rabi crops250DAOPFIntegrated pest and diseases management in cumin160ATMAPFIPM & IDM in groundnut, cotton crops155DAOPFIPM, IDM, INM in groudnnut and cotton155ATMAPFIPM, IDM, INM in Horticultural Crops155Dy.D.HortPFIPM, IDM, INM in Horticultural Crops155ATMAPFIPM, IDM, INM in Horticultural Crops155DWDUPFIPM & IDM in kharif crop155ATMAPFScade Techniques and IPM in summer crops10ATMAPFStorage Techniques and IPM in summer crops16675Sponsore/TotalICICICATMAPFWorld Soil health day150ATMAPFMahila Krushi Divas10ATMAPFImage Techniques150ATMAPFImage Techniques <td< td=""><td>Sponsorin g agencyClie nelTitle of the training programme courseNo. of courseNo. of JSponsoretTitle of the training programmeNo. of courseMFATMAPFImportance of MIS2800ATMAPFImportance of MIS2800ATMAPFKharif crop protection and production technology310040AGAKHANPFINM and MIS in rabi crops25050DAOPFIntegrated pest and diseases management in cumin1600ATMAPFIPM &amp; 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IDM in groundnut, cotton recops         1         55         0         55           DAO         PF         IPM, IDM, INM in Horticultural recop         1         55         0         55           DY.D.Hort         PF         IPM, IDM, INM in Horticultural recops         1         55         0         55           DWDU         PF         IPM, IDM, INM in Horticultural recops         1         55         0         55           ATMA         PF</td><td>Sponsorial g agency         Clie il e         Title of the training programme occurrent for the course of the cours</td><td>Sponsorial gray agency         Title of the training programme or course of course o</td><td>Sponsoring Cite         Title of the training programme         No. of course         No. of course</td></td<>	Sponsorin g agencyClie nelTitle of the training programme courseNo. of courseNo. of JSponsoretTitle of the training programmeNo. of courseMFATMAPFImportance of MIS2800ATMAPFImportance of MIS2800ATMAPFKharif crop protection and production technology310040AGAKHANPFINM and MIS in rabi crops25050DAOPFIntegrated pest and diseases management in cumin1600ATMAPFIPM & IDM in groundnut, cotton crops1550DAOPFIPM, IDM, INM in groudnnut and cotton1550DAOPFIPM, IDM, INM in Horticultural Crops1550DAOPFIPM, IDM, INM in Horticultural Crops1550ATMAPFPFM & IDM in kharif crop1550DWDUPFIPM & IDM in kharif crop1550ATMAPFSeed Production technology and IPM in these crops1055ATMAPFStorage Techniques and IPM in summer crops1055ATMAPFStorage Techniques and IPM in summer crops101ATMAPFWorld Soil health day15050ATMAPFMahila Krushi Divas10100ATMAPFMahila Kru	Sponsoring agency         Clie relation         Title of the training programme recovery         No. of course         No. of recovery         Motor protection protection           ATMA         PF         Importance of MIS         2         80         0         80           ATMA         PF         Importance of MIS         2         80         0         80           ATMA         PF         Kharif crop protection and production technology         3         100         40         140           AGAKHAN         PF         Integrated pest and diseases management in cumin         1         60         0         60           ATMA         PF         Integrated pest and diseases management in cumin         1         55         0         55           DAO         PF         IPM & IDM in groundnut, cotton recops         1         55         0         55           DAO         PF         IPM, IDM, INM in Horticultural recop         1         55         0         55           DY.D.Hort         PF         IPM, IDM, INM in Horticultural recops         1         55         0         55           DWDU         PF         IPM, IDM, INM in Horticultural recops         1         55         0         55           ATMA         PF	Sponsorial g agency         Clie il e         Title of the training programme occurrent for the course of the cours	Sponsorial gray agency         Title of the training programme or course of course o	Sponsoring Cite         Title of the training programme         No. of course         No. of course

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## Annexure - II

Details of Budget Estimate (2024-25) based on proposed action plan				
S.		BE 2024-25		
No.	Particulars	proposed		
25.1	Pocurring Contingoncies	(KS.)		
25.1	Recurring Contingencies			
25.1.1	Pay & Allowances	130		
25.1.2	Traveling allowances	2		
25.1.3	Contingencies	35		
A	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)			
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstrations 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			
1	Establishment of Soil, Plant & Water Testing Laboratory			
J	Library			
25.1	TOTAL Recurring Contingencies	167		
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	218		

## Annexure-III

Details of Works proposed during 2021-26 for KVK, JAU, JAMNAGAR						
Sr.	Name of works	Estimated cost for	Justification for works			
No.		work / renovation	required to be carried out			
		etc. (Rs. In Lakh)				
1.	China mosaic on terrace of the	6.0	There problem of water tank			
	building		overflow, rain water drainage.			
	1. KVK Office building (400 Sq m)		Therefore, condition of the			
	2. Hostel Building (300 sq m)	4.5	ceiling become dangerous,			
	3. Training Hall (200 sq m)	3.0	and will be destroyed shortly.			
	4. Quarter E type (135 sq m)	2.03	Therefore, it is to be required			
	5. Quarter D type (125 sq m x 2 No.)	3.75	to be renovation. Fitting of			
	=250 sq m		china mosaic on the terrace is			
	6. Quarter Ctype (110 sq m x 3	4.95	to be require for long life of			
	No.)=330 sq m		the building.			
	Total	24.23 lakh				
2.	Wall painting of the building	2.0	Building is to old therefore,			
	1. KVK Office building (400 Sq m)		whitewash painting is required			
	2. Hostel Building (300 sq m)	1.5	-			
	3. Training Hall (200 sq m)	1.0				
	4. Quarter E type (135 sq m)	0.67				
	5. Quarter D type (125 sq m x 2 No.)	1.25				
	=250 sq m					
	6. Quarter Ctype (110 sq m x 3	1.65				
	No.)=330 sq m					
	Total	8.07 lakh				
3	Farm Fencing wall	40				
	(L-640 m x h- 3m+1m plinth+1m					
	base = 3200 sq m					
4	Open well	25				
5	Farm Development	25				
6	Office equipment	35				
/	Soil testing laboratory	25				
8	Information technology	10				
9	Over Head Water Tank	40				
10	I wo wheeler	1.20				
11	Multi crop thressure (Auto feeder)	8.0				
12	LED Display	10				
13	Water storage sump 5 lakh litres	30				
14	Rat proof godown cum farmers	40	This office works for farmers			
	outlet		and distributed seeds, bio-			
			products from KVK,			
			Inis center produce many			
			oliseeds, pulses and cereal			
			labolod cood production for			
			farmers			
			Such speds required to be			
			store for longer time			
			store for longer time.			

			<ul> <li>It is required for sales out late for selling different products from university.</li> <li>There is very high humidity, therefore, it is requiring to good godown.</li> </ul>
15	Parking shed	20	<ul> <li>Every day, farmers, officers, scientist and student with dignitaries visited this esteemed organization.</li> <li>This is district level training center, continuously farmers visit daily.</li> <li>They parked their vehicle irrespectively.</li> </ul>
16	Irrigation facilities Submersible pump set with pipe line facilities	40	It is required for irrigation of 20 hector farm