Annual Action Plan

2024






KRISHI VIGYAN KENDRA

NAVSARI AGRICULTURAL UNIVERSITY

SURAT, DIST: SURAT, GUJARAT

Ph: 0261 2655565 E-mail: kvksurat@nau.in

ICAR-ATARI, Pune

DETAILS OF ACTION PLAN OF KVKs DURING 2024

1. GENERAL INFORMATION ABOUT THE KVK

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

Address with PIN code	Telephone		E mail	Website address & No. of visitors (hits)
Krishi Vigyan Kendra Navsari Agricultural University Athwa Farm, Surat Dist. Surat, Gujarat-395007	Office (0261) - 2655565	FAX (0261) 2668045 pp	kvksurat@nau.in	www.nau.in kvk.icar.gov.in

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

Address	Telephone		E mail	Website address
	Office	FAX		
Navsari Agricultural University, Navsari	(02637) 283869	(02637) 282554	vc@nau.in	www.nau.in

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

Name	Telephone / Contact		
Dr. J. H. Rathod	0261 655565	8128686720	**hariom.janaksinh@gmail.com**

1.4. Year of sanction & type of host organization: 2012 (SAU)

1.5. Staff Position

Sl. No.	Sanctioned Post	Name of the incumbent	Discipline	If Permanent, Please indicate		Date of joining	If Temporary, pl. indicate the consolidated amount paid (Rs./month)
				Current Pay Band	Current Grade Pay		
1.	Senior Scientist and Head	Dr. J. H. Rathod	Entomology	131400-217100	--	16.11.16	Temporary (264357)
2.	Scientist	Dr. R. K. Patel	Crop protection	68900-205500	--	01.02.19	Temporary (143312)
3.	Scientist	--	Animal Husbandry	Vacant			--
4.	Scientist	Mr. S. J. Trivedi	Agronomy	68900-205500	--	01.06.18	Temporary (149234)
5.	Scientist	Mrs. B. B. Panchal	Horticulture	57700-182400	--	20.01.17	Temporary (101948)
6.	Scientist	Smt. G. J. Bhimani	Home Science	68900-205500	--	05.02.16	Temporary (139204)
7.	Scientist	--	Extension	Vacant			--

8.	Farm manager	Mr. A. T. Patel	--	39900-126600	--	12.07.12	Temporary (72400)
9.	Computer Programmer	Mr. C. G. Lad	--	39900-126600	--	10.08.15	Temporary (74500)
10.	Programme Assistant	Mr. Y. D. Patel	--	39900-126600	--	10.08.15	Temporary (78690)
11.	Accountant/ Superintendent	Mrs. J. D. Patel	--	25500-81100	--	01.04.2023	Temporary (44580)
12.	Stenographer	Mrs. J. M. Verma	--	25500-81100	--	19.08.15	Temporary (40888)
13.	Driver	Vacant	--	--	--	--	--
14.	Driver	Vacant	--	--	--	--	--
15.	Supporting staff	Vacant	--	--	--	--	--
16.	Supporting staff	Vacant	--	--	--	--	--

1.6. Total land with KVK (in ha):

Sr. No.	Item	Area (ha)
1	Under Buildings/Road	01.73
2.	Under Demonstration Units	02.00
3.	Under Crops	10.38
4.	Horticulture	00.40
5.	Pond	--
6.	Others if any	--

1.7. Infrastructural Development:

A. Buildings

Sr. No	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Year	Plinth area (Sq.m)	Expenditure (Rs.)	Starting year	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	--	2023	--	206.16 lakhs	--	--	--
2.	Farmers Hostel	--		--		--	--	--
3.	Staff Quarters (6)	--	--	--	--	--	--	--
4.	Demonstration Units (2)	--	--	--	--	--	--	--
5	Fencing	--	--	--	--	--	--	--
6	Rain Water harvesting system	--	--	--	--	--	--	--
7	Threshing floor	--	--	--	--	--	--	--
8	Farm godown	--	--	--	--	--	--	--
9	ICT lab	--	--	--	--	--	--	--
10	Other	--	--	--	--	--	--	--

B. Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Jeep(Tata Sumo)	2012	599999	290000	Under Process for Auction
Jeep(Mahindra Bolero)	2023	900000	12193	Working
Tractor	2012	549900	7993(h)	Working
Tractor	2024	775000	00	Working (TSP)

C. Equipments & AV aids

Name of the equipment / Implements	Year of purchase	Cost (Rs.)	Present status
Cultivator	2012-13	22500	Working
Plough	2012-13	22500	Working
Lenovo Computer with printer- 4	2015-16	162816	Working
Canon printer- 4	2015-16	34704	Working
Canon Copier machine	2015-16	47565	Working
Multi- media projector-2	2015-16	103691	Working
DSLR Camera	2015-16	39555	Working
Digital camera	2015-16	10305	Working
Multicrop Thresher	2016-17	180000	Working
Rotavetor	2016-17	67210	Working
Disc Harrow	2016-17	95000	Working
Multicrop seed cum fertilizer drill	2016-17	42000	Working
Bund former	2016-17	18000	Working
Cage wheel	2016-17	30450	Working
Ridger (with danti)	2016-17	13125	Working
Hydrulic luggage box	2016-17	16800	Working
V Ditcher	2016-17	12600	Working
Plank	2016-17	32550	Working
RO water purifier with cooler	2016-17	78000	Working
Mrida Parikshak Soil Testing minilab-kit	2016-17	86000	Not Working
A/C-2	2016-17	80,000	Working
Tractor mounted sprayer	2018-19	13806	Working
Brush cutter	2018-19	24632	Working
Cultivator	2023-24	39940	Working
Dish Plough	2023-24	60000	Working
Plank	2023-24	24998	Working

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

Sr. No.	Particular	Date
1	Scientific Advisory Committee-Meeting 1	03.12.2024

2. DETAILS OF JURIDICTION AREA UNDER KVK: 10 Talukas

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

Sr. No	Farming system/enterprise	Name of Talukas Covered
1	Crop production	All 9 Talukas
2	Crop production and Horticulture	Bardoli, Olpad, Kamrej, Choryasi, Palsana
3	Crop production and Livestock	Umarpada, Mandvi, Mangrol, Mahuva
4	Crop production, Horticulture and Livestock	Umarpada, Mandvi, Mangrol, Mahuva

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

a. Soil type

Sr. No.	Agro-climatic Zone	Characteristic
1	Agro-climatic Zone I (South Gujarat Heavy Rainfall Zone)	Soil texture is Hilly and highly undulating fine texture, highly erosive in Mandvi, Mangrol & Umarpada block. Leveled, deep, fine textured in Bardoli, Choryasi (75%), Kamrej, Palasana, Surat and Mahuva block. Coastal plain, deep, fine texture, salt affected in Choryasi (25%), Olpad (30%) block. Major crops grown are Paddy, Maize, Cotton, Sorghum, Pulses, Sugarcane, Orchards (mango, banana), Oil Seeds and wheat. Average rainfall 1200 mm.

b. Topography

Sr. No.	Agro ecological situation	Characteristics
1	(AES-1)	Hilly and highly undulating fine texture, highly erosive
2	(AES-2)	Leveled, deep, fine textured
3	(AES-3)	Deep to medium black
4	(AES-4)	Coastal plain, deep, fine texture, salt affected

2.3. Soil Types

Sr. No.	Soil type	Characteristics
1	Inceptisols	Inceptisols are found on the hilly areas as well as along the hill slopes. These soils are shallow to moderately deep and highly eroded. Their texture varies from loamy to clay. Their water holding capacity is moderate. They are moderate to high in nitrogen, low in phosphoric acid and high in potash content.
2	Vertisols	Vertisols are found in the midlands and flood plains. These soils are very deep and silty to clay in texture. Their water holding capacity varies with clay content. These soils crack on drying and have poor drainage characteristics. These are moderate in nitrogen, low to medium in phosphoric acid and high in potash content
3	Coastal saline soils	The soils are sandy clay loam to clay in texture. The soil reaction varies with situation ranging from neutral to highly alkaline. These soils are normally medium in fertility.

2.4. Area, Production and Productivity of major crops cultivated in the district (2023)

2.4.1 Field Crops cultivated in the district

S.N.	Crop	Area (ha)	Production (MT.)	Productivity (Qt./ha)
Kharif crops				
1	Paddy Irrigated	32907	113858	3460
2	Paddy rainfed	5701	9349	1640
3	Kh. Sorghum	11052	14091	1275
4	Kh. Maize	1245	1942	1560
5	Pigeon pea irrigated	916	1032	1127
	Pigeon pea- rainfed	9506	7224	760
6	Green gram	944	690	651
7	Urid	1587	415	658
8	Other pulses	347	183	530
9	Ground nut	530	816	1540
10	Sesame	26	11	435
11	Castor	30	50	1667
12	Cotton	2352	4515	1920
13	Soybean	9830	8620	877
14	Vegetables	31991	0	--

15	Fodder	7164	0	--
16	Green manuring	7616	0	--
	Total	**123796**	**0**	--
Rabi-summer crops				
1	Paddy (Summer)	2732	12594	4610
2	Wheat	6305	24570	3942
3	Sorghum	6305	10863	1723
4	Maize	862	1873	2174
5	Bean	824	717	871
6	Pigeonpea	1085	1334	1230
7	Greengram summer	2041	1353	663
8	Gram	1453	1275	878
9	Groundnut Summer	409	889	2176
10	Sugarcane	84464	7816298	92540
11	Castor	43	78	1823
12	Mustard	79	93	1186
13	Fodder	2675	--	-
14	Vegetables	9368	-	-
	Total	**118911**		

Source: DAO, Surat.

2.4.2 Fruit crops cultivated in the district

Crop	Area (Ha.)	Production (MT)	Productivity (MT)
Mango	10049	64615	6.43
Sapota	1820	20092	11.04
Citrus	102	794	7.78
Ber	11	82	7.45
Banana	8692	613829	70.62
Guava	95	1260	13.26
Pomegranate	5	31	6.2
Papaya	209	12352	59.10
Custard Apple	8	64	8
Cashew Nut	20	8	0.4
Coconut	243	1946	8.01
Other Fruits	100	894	8.94
Total	21114	714025	33.82

Source: DDH, Surat

2.4.3 Vegetable Crops in the district

Crop	Area (Ha.)	Production (MT)	Productivity(MT)
Brinjal	5268	112050	21.27
Okra	13355	188840	14.14
Cabbage	758	758	20.35
Tomato	1260	27090	21.50
Clusterbean	1945	1945	7.98
Cow Pea	1639	1639	12.38
Cucurbitaceae Vegetables	6421	93275	14.53
Other Vegetables	5724	97651	17.06
TOTAL (Major Crops)	37783	600039	15.88

Source: DDH, Surat

Area and Production of other Vegetable Crops in the district

Crop	Area (Ha.)	Production (MT)	Productivity (MT)
Greater Yam	14.42	219	5116
Sugar beet	24.17	159	3930
Carrot	12.11	213	3453
Sweet Potato	7.22	212	3970
Spinach	16.00	218	3567
Radish	15.91	486	8619
Amaranthus	10.04	345	3608
Moringa	9.77	148	1770
Capsicum	12.79	634	9701
Fenugreek	10.30	197	2309
pea	10.85	68	796
Elephant Foot Yam	14.99	1002	16967
Green Chilli	28.23	1677	31360
Mallet/Mogri	21.56	23	546
Allocasia	9.20	123	1939
Total	17.85	5724	97651

Source: DDH, Surat

2.4.4 Flower Crops in the district

Crop	Area (Ha.)	Production (MT)	Productivity (MT)
Rose	63	582	9.24
Marigold	218	2170	9.95
Jasmine (Mogra)	6	26	4.33
Lily	58	570	9.83
Others	71.80	659	9.18
TOTAL	**416.8**	**4007**	**9.61**

Source: DDH, Surat

2.4.5 Spices Crops in the district

Crop	Area (Ha.)	Production (MT)	Productivity (MT)
Ginger	112	1956	17.46
Dry Chilli	98	145	1.48
Garlic	10	52	5.20
Coriander	36	54	1.50
Turmeric	418	9104	21.78
Fenugreek	107	205	1.92
Ajwain	5	5	1.00
Dilseed	7	8	1.14
Total	**793**	**11529**	**14.54**

Source: DDH, Surat

2.5. Weather data (2023)

Month	Normal RF(mm)	Normal Rainy days (number)	Temperature (^{0} C)		Relative Humidity (%)	
			Maximum	Minimum	Maximum	Minimum
January-2023	0	0	11.7	33.7	41	71
February-2023	0	0	16.7	36.4	20	82
March-2023	4	1	19.8	38.4	31	83
April-2023	12.5	2	22.1	39.4	30	85
May-2023	0	0	24.8	42.1	48	89
June-2023	212	9	25.3	38.9	63	90
July-2023	491	25	25.1	33.7	87	100
August-2023	50.5	6	25.2	33.9	86	100
September-2023	282.5	13	24.4	38.2	79	97
October-2023	0	0	22	38.4	36	59
November-2023	88	1	17.9	36.5	27	43
December-2023	0	0	16.6	33.1	38	84
Total	1140.5	57	11.7	42.1	49	82

Source: KVK, Surat

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

Category	Population	Production (MT)	Productivity
Cattle			
Crossbred	289402	134000	7.9 liters
Indigenous	289402	44000	3.8 liters
Buffalo	300282	192000	4.6 liters
Sheep	1936	-	-
Goats	150464	5000	-
Pigs			
Crossbred	94000	-	-
Indigenous	68000	-	-
Rabbits	-	-	-
Poultry			
Hens	204000	55100	-
Desi	10000	-	-
Category		Production (Q.)	Productivity
Fish (Reservoir)	5	10414	-

Source: DAH, Surat

2.7. Details of Operational area / Villages

Name of Block/Taluka	Name of villages	Major crops & enterprises	Major Problems Identified	Identified Thrust areas
Mahuva	1. Machhisadada 2. Vasrai 3. Vaheval 4. Vadia	Paddy, Sugarcane, Pointed gourd, Okra, Brinjal, Vegetables, Mango Crop production-Horticulture-Livestock	**1.** The productivity of crop is very low due to lack of technical knowhow regarding its scientific cultivation **2.** Okra, brinjal and creepers are important crops but the productivity is very low, problem of insect pests and disease No technical knowhow regarding greenhouse net house technology and crops Lack of technical knowhow about mango orchards plantation and management. **3.** High use of water in canal command area and water scarcity in hilly area **4.** Lack of knowledge about Insect pests and diseases and their management and nutrient management in crops like paddy sugar cane, okra, creepers etc, Injudicious use of fertilizers and pesticides High incidence of wilt and parval vine borer in pointed gourd. **5.** Low milk productivity High calf mortality Problem of anoestrus Lack of awareness about Feeds and fodder management. **6.** Lack of knowledge of small-scale agricultural base enterprises, value addition etc. **7.** Drudgery reduction through improved hand tools.	**1.** Increase productivity of major crops e.g. Paddy, sugarcane **2.** Dissemination of production technology of fruits and vegetables and their post-harvest management as well promotion of precision farming. **3.** Management of natural resource, including salinity management **4.** Popularize eco-friendly crop production with special reference to IPDM & INM. **5.** Increasing milk production by dissemination of latest technologies. **6.** Imparting skill-oriented training to the tribal women for sustaining their livelihood. **7.** Promotion of small-scale farm mechanization in tribal area.

Mandvi	**1.** Jamkui **2.** Gangapur **3.** Gamtalav Khurd **4.** Pipalvada	Paddy, Sugarcane, Brinjal, Okra, Cluster bean , Vegetables, Pulses, Soybean, Groundnut Crop production-Horticulture-Livestock	**1.** The productivity of crop is very low due to lack of technical knowhow regarding its scientific cultivation. **2.** Brinjal and okra are important crops but the productivity is very low, problem of insect pests and disease. No technical knowhow regarding greenhouse net house technology and crops. Lack of technical knows how about mango orchards plantation and management. **3.** High use of water in canal command area and water scarcity in hilly area. **4.** Lack of knowledge about Insect pests and diseases and their management and nutrient management in crops like paddy sugar cane, okra, creepers etc, Injudicious use of fertilizers and pesticides High incidence of wilt and fruit and shoot borer in brinjal **5.** Low milk productivity High calf mortality Problem of anoestrus Lack of awareness about Feeds and fodder management **6.** Lack of knowledge of small-scale agricultural base enterprises, value addition etc. **7.** Drudgery reduction through improved hand tools.	**1.** Increase productivity of major crops e.g. Paddy, sugarcane, Soybean. **2.** Dissemination of production technology of fruits and vegetables and their post-harvest management as well promotion of precision farming. **3.** Management of natural resource, including salinity management **4.** Popularize eco-friendly crop production with special reference to IPDM & INM. **5.** Increasing milk production by dissemination of latest technologies. **6.** Imparting skill-oriented training to the tribal women for sustaining their livelihood. **7.** Promotion of small-scale farm mechanization in tribal area.

Umarpada	1. Bilvan 2. Umarkhadi 3. Gondalia 4. Chitalda	Paddy, Brinjal, Okra, Cotton, Pulses, Soybean, Groundnut Crop production - Livestock	**1.** The productivity of crop is very low due to lack of technical knowhow regarding its scientific cultivation **2.** Indian bean is an important crop but the productivity is very low, problem of insect pests and disease Lack of technical knowhow about orchards plantation and management. **3.** Water scarcity in rabi / summer due hilly area **4.** Lack of knowledge about Insect pests and diseases and their management and nutrient management in crops like paddy vegetables etc, No use of bio fertilizers **5.** Low milk productivity, High calf mortality, Problem of anoestrus Lack of awareness about Feeds and fodder management. Large no of non-descript animals. **6.** Lack of knowledge of small-scale agricultural base enterprises, value addition etc. **7.** Drudgery reduction through improved hand tools.	**1.** Increase productivity of major crops e.g. Paddy, cotton, sorghum, pigeon pea **2.** Dissemination of production technology of fruits and vegetables and their post-harvest management as well promotion of precision farming. **3.**Management of natural resource, including salinity management **4.** Popularize eco-friendly crop production with special reference to IPDM & INM. **5.** Increasing milk production by dissemination of latest technologies. **6.** Imparting skill-oriented training to the tribal women for sustaining their livelihood. **7.** Promotion of small-scale farm mechanization in tribal area.
Mangrol	1. Vankal 2. Zarni 3. Boria 4. Ognisha	Paddy, Sorghum, Cotton, Pulses, Groundnut Crop production-Livestock	**1.** The productivity of crop is very low due to lack of technical knowhow regarding its scientific cultivation. **2.** Okra, brinjal and creepers are crops but the productivity is very low, problem of insect pests and disease No technical knowhow regarding net house technology and crops Lack of technical knowhow about plantation and management. **3.** Water scarcity in hilly area and rain fed farming	**1.** Increase productivity of major crops e.g. Paddy, cotton, sorghum. **2.** Dissemination of production technology of fruits and vegetables and their post-harvest management as well promotion of precision farming. **3.** Management of natural resource, including salinity management.

			4. Lack of knowledge about Insect pests and diseases and their management and nutrient management in crops like paddy sugar cane, okra, creepers etc, Injudicious use of fertilizers and pesticides High incidence of wilt and parval vine borer in pointed gourd. **5.** Low milk productivity High calf mortality Problem of anoestrus Lack of awareness about Feeds and fodder management **6.** Lack of knowledge of small-scale agricultural base enterprises, value addition etc. **7.** Drudgery reduction through improved hand tools.	**4.** Popularize eco-friendly crop production with special reference to IPDM & INM. **5.** Increasing milk production by dissemination of latest technologies. **6.** Imparting skill-oriented training to the tribal women for sustaining their livelihood. **7.** Promotion of small-scale farm mechanization in tribal area.
Olpad	1. Saras 2. Kuvad 3. Aadmor 4. Pinjrat	Paddy, Sugarcane, Pointed gourd, Okra, vegetables Crop production-Livestock	**1.** The productivity of crop is very low due to lack of technical knowhow regarding its scientific cultivation **2.** Okra and creepers are important crops but the productivity is very low, problem of insect pests and disease No technical knowhow regarding greenhouse net house technology and crops Lack of technical knowhow about fruit crops cultivation. **3.** High use of water in canal command area and salinity problem in coastal area **4.** Lack of knowledge about Insect pests and diseases and their management and nutrient management in crops like paddy sugar cane, okra, creepers etc, Injudicious use of fertilizers and pesticides	**1.** Increase productivity of major crops e.g. Paddy, sugarcane. **2.** Dissemination of production technology of fruits and vegetables and their post-harvest management as well promotion of precision farming. **3.** Management of natural resource, including salinity management. **4.** Popularize eco-friendly crop production with special reference to IPDM & INM.

			High incidence of wilt and parval vine borer in pointed gourd. **5.** Low milk productivity High calf mortality Problem of anoestrus Lack of awareness about Feeds and fodder management **6.** Lack of knowledge of small scale agricultural base enterprises, value addition etc.	**5.** Increasing milk production by dissemination of latest technologies. **6.** Imparting skill oriented training to the tribal women for sustaining their livelihood.
Kamrej	1. Kodi-bharthana 2. Dungra 3. Ghala	Sugarcane, Banana, Paddy, Vegetables Crop production-Horticulture-Livestock	**1.** The productivity of crop is very low due to lack of technical knowhow regarding its scientific cultivation **2.** Banana is an important crop but the problem of insect pests and disease No technical knowhow regarding greenhouse net house technology and crops **3.** High use of water in canal command area problem of water logging 4. Lack of knowledge about Insect pests and diseases and their management and nutrient management in banana	**1.** Increase productivity of major crops e.g. sugarcane **2.** Dissemination of production technology of fruits and vegetables and their post-harvest management as well promotion of precision farming. **3.** Management of natural resource, including salinity management **4.** Popularize eco-friendly crop production with special reference to IPDM & INM.
Bardoli	1. Vaskui 2. Bhesudla 3. Moti Bhatlav 4. Boria	Paddy, Sugarcane, Banana, Brinjal, Okra, Vegetables Crop production-Horticulture- Livestock	**1.** The productivity of crop is very low due to lack of technical knowhow regarding its scientific cultivation. **2.** Okra and creepers are important crops but the productivity is very low, problem of insect pests and disease No technical knowhow regarding greenhouse net house technology and crops Lack of technical knowhow about fruit crops cultivation. **3.** High use of water in canal command area and salinity problem in coastal area	**1.** Increase productivity of major crops e.g. Paddy, sugarcane. **2.** Dissemination of production technology of fruits and vegetables and their post-harvest management as well promotion of precision farming. **3.** Management of natural resource, including salinity management.

			4. Lack of knowledge about Insect pests and diseases and their management and nutrient management in crops like paddy sugar cane, okra, creepers etc, Injudicious use of fertilizers and pesticides High incidence of wilt and parval vine borer in pointed gourd. **5.** Low milk productivity High calf mortality Problem of anoestrus Lack of awareness about Feeds and fodder management **6.** Lack of knowledge of small-scale agricultural base enterprises, value addition etc.	**4.** Popularize eco-friendly crop production with special reference to IPDM & INM. **5.** Increasing milk production by dissemination of latest technologies. **6.** Imparting skill-oriented training to the tribal women for sustaining their livelihood.
Choryasi	1. Damka 2. Vasva 3. Bhatlai Bhatpor 4. Budia	Paddy, Pointed gourd, Sorghum, Vegetables Crop production-Livestock	**1.** The productivity of crop is very low due to lack of technical knowhow regarding its scientific cultivation **2.** No technical knowhow regarding greenhouse net house technology and crops **3.** High use of water in canal command area problem of water logging **4.** Lack of knowledge about Insect pests and diseases and their management and nutrient management in banana **5.** Lack of knowledge of small-scale agricultural base enterprises, value addition etc.	**1.** Increase productivity of major crops e.g. sugarcane **2.** Dissemination of production technology of fruits and vegetables and their post-harvest management as well promotion of precision farming. **3.** Management of natural resource, including salinity management **4.** Popularize eco-friendly crop production with special reference to IPDM & INM. **5.** Imparting skill oriented training to the tribal women for sustaining their livelihood.

2.8. Priority thrust areas:

1. Increase productivity of major crops e.g. Paddy, Cotton, Sorghum, sugarcane, pulses
2. Dissemination of production technology of fruits and vegetables and their post-harvest management as well promotion of precision farming.
3. Management of natural resource, including salinity management
4. Popularizing of location specific farming system
5. Popularize eco-friendly crop production with special reference to IPDM & INM.
6. Increasing milk production by dissemination of latest technologies.
7. Imparting skill-oriented training to the tribal women for sustaining their livelihood.
8. Promotion of small-scale farm mechanization in tribal area
9. Value addition in fruits, vegetables & pulses

3. TECHNICAL PROGRAMME

3.1. A. Details of targeted mandatory activities by KVK

OFT		FLD	
(1)		(2)	
Number of OFTs	Number of Farmers	Area (ha)	Number of Farmers
6	40	131	638

Training		Extension Activities	
(3)		(4)	
Number of Courses	Number of Participants	Number of activities	Number of participants
89	2505	26 (1031)	15345

Seed Production (Qtl.)	Planting material (Nos.)	Fish seed prod. (No's)	Soil Samples
(5)	(6)	(7)	(8)
Paddy-600	50000 Vegetable Seedlings	0	0

4.1. B. Operational areas details proposed during 2024

Sr. 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	Paddy, Sugarcane, Pointed gourd, Okra, Brinjal, Vegetables, Mango Crop production-Horticulture-Livestock	Use of local variety High seed rate, Imbalance use of fertilizers, No use of bio fertilizer	--	Machhisadada Vasrai Vaheval Vadia	OFT, FLD, Training, extension activity
2	Paddy, Sugarcane, Brinjal, Okra, Cluster bean , Vegetables, Pulses, Soybean, Groundnut Crop production-Horticulture-Livestock	Use of local variety in brinjal Imbalance use of fertilizers in crops No use of bio- fertilizers No knowledge about post-harvest management and processing Low technical know house regarding green house/ net house and production technology	--	Jamkui Gangapur Gamtalav Khurd Pipalvada	OFT, FLD, Training, extension activity
3	Paddy, Brinjal, Okra, Cotton, Pulses, Soybean, Groundnut Crop production – Livestock	Lack of knowledge about disease and insect pest management. Injudicious use of pesticides Lack of knowledge about Bio-fungicides	--	Bilvan Umarkhadi Gondalia Chitalda	OFT, FLD, Training, extension activity
4	Paddy, Sorghum, Cotton, Pulses, Groundnut Crop production-Livestock	Poor dairy management Large number of non-descript animals with low milk production Poor availability of fodder in hilly area. Poor cultivation of fodder crops High calf mortality due to poor management	--	Vankal Zarni Boria Ognisha	OFT, FLD, Training, extension activity
5	Paddy, Sugarcane, Pointed gourd, Okra, vegetables Crop production-Livestock	In hilly area problem of water conservation In middle canal command area due to excess irrigation problems of water logging and salinity In coastal area salinity problem	--	Saras Kuvad Aadmor Pinjrat	OFT, FLD, Training, extension activity

6	Sugarcane, Banana, Paddy, Vegetables Crop production-Horticulture-Livestock	Imbalance use of fertilizers lack of awareness about use of bio-fertilizers	--	Kodi-bharthana Dungra Ghala	OFT, FLD, Training, extension activity
7	Paddy, Sugarcane, Banana, Brinjal, Okra, Vegetables Crop production-Horticulture- Livestock	Lack of knowledge about value addition of locally available materials Lack of knowledge, skills regarding various small scale agriculturally based enterprises	--	Vaskui Bhesudla Moti Bhatlav Boria	OFT, FLD, Training, extension activity
8	Paddy, Pointed gourd, Sorghum, Vegetables Crop production-Livestock	Imbalance use of fertilizers lack of awareness about use of bio-fertilizers	--	Damka Vasva Bhatlai	OFT, FLD, Training, extension activity

3.2. Technologies to be assessed

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation	1	1	--	--	1	--	--	--	1	4
Seed / Plant production	--	--	--	--	--	--	--	--	--	--
Weed Management	--	--	--	--	--	--	--	--	--	--
Integrated Crop Management	--	--	--	--	--	--	--	--	--	--
Integrated Nutrient Management	--	--	--	--	--	--	--	--	--	--
Integrated Farming System	--	--	--	--	--	--	--	--	--	--
Mushroom cultivation	--	--	--	--	--	--	--	--	--	--
Drudgery reduction	--	--	--	--	--	--	--	--	--	--
Farm machineries	--	--	--	--	--	--	--	--	--	--
Value addition	--	--	--	--	--	--	--	--	--	--
Integrated Pest Management	1	--	--	--	1	--	--	--		2
Integrated Disease Management	--	--	--	--	--	--	--	--	--	--
Resource conservation technology	--	--	--	--	--	--	--	--	--	--
Small Scale income generating enterprises	--	--	--	--	--	--	--	--	--	--
TOTAL	**2**	**1**	**-**	**--**	**2**	**--**	**--**	**--**	**1**	**6**

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

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Wormy 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	--	--	--	--	--	--	--	--

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

SN	Crop/ enterprise	Prioritized problem	Title of OFT	Tech. options	Source of Technology	Name of critical input	Qty per trial	Cost per trial Rs.	No. of trials	Total cost for OFT Rs.	Parameters to be studied	Team mem-bers
1	Paddy	Low yield of old variety	Assessment of Paddy varieties for yield	3	NAU, Navsari	Gurjari GNR-3 GNR-17	2.5 kg x 3 = 7.5	234	10	2340	Yield & B:C ratio	2
2	Sesame	Low yield due of local varieties	Assessment of sesame variety for summer cultivation	2	JAU, Junagadh	Local GT-3 GT-5	1.0 kg X 2 = 2kg	600	10	6000	Yield & B:C ratio	2
3	Paddy	Infestation of yellow stem borer and lower yield in paddy	Management of yellow stem borer in paddy	1	NAU, 2024	Thiamethoxam 25% WG, Chlorantraniliprole 18.5 SC,	50 gm x 5 = 250 gm, 2 kg x 5 = 10 kg	800	5	4000	1. Dead heart (%) 2. White ear head (%) 3. Yield 4. B:C ratio	2

4	Okra	Infestation of shoot and fruit borer in okra	Management of shoot and fruit borer in okra	2	AAU, Anand & SDAU, Gujarat	*Bacillus thuringiensis* & Emamectin benzoate 5 % SG	*B. thuringiensis*: 2 lit & E. benzoate: 200 g	Rs. 300	5	1500	Shoot & fruit infestation (%), Yield (kg/ha), B:C ratio	2
5	Indian Bean	Low yield of Indian bean	Assessment of different Indian bean varieties.	2	NAU, Navsari JAU	GNIB 22 GJIB 2	2 kg 2 kg	600 Rs. 520 Rs	5	5600	Yield (q/ha) B:C ratio	2
6	Greater Yam	Low yield of Greater Yam	Varietal assessment of grater yam	1	NAU, Navsari	Hemlatha	6 kg	150 Rs.	5	750	Yield (q/ha) B:C ratio	2

OFT: -1 Crop Production

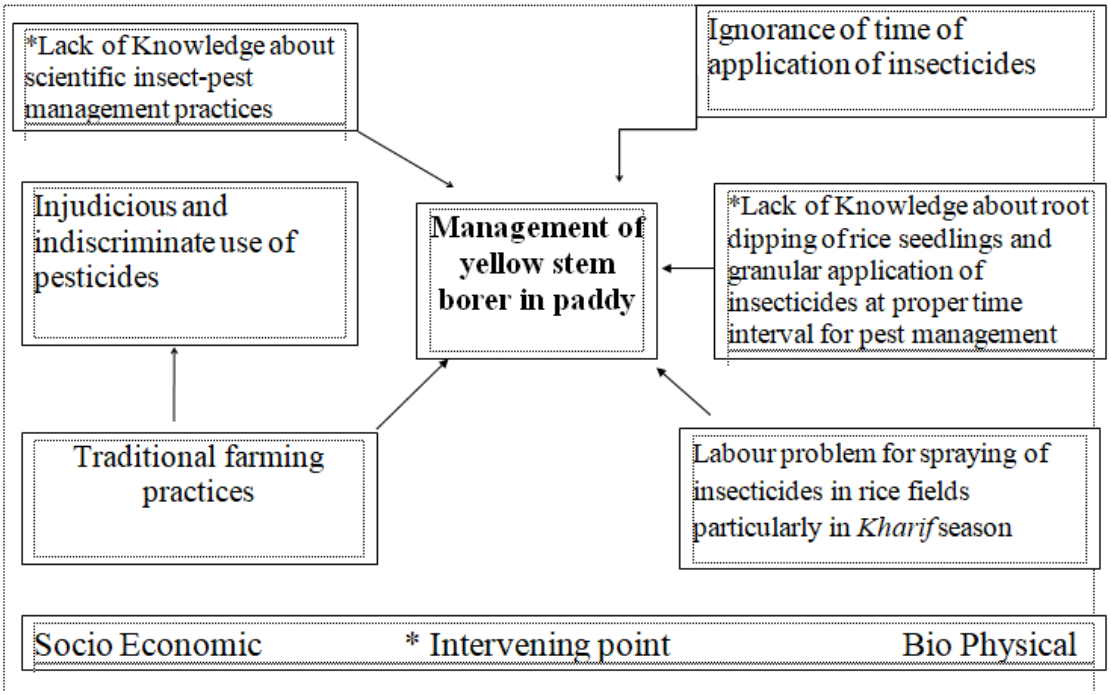
Crop/Enterprise	**Paddy**
Title of on-farm trial	Assessment of Paddy varieties for yield
Problem diagnosed	Farmers are using age old varieties of paddy, mainly for mamra-Pahuva making. Three varieties found suitable for the purpose but farmers exactly don't know which variety is giving more yield and early in characteristic, recommended for surat district.
Farming situation	Irrigated
Production system and thematicarea	Paddy-Sugarcane-Paddy ICM
Farmers' practices	T1: Gurjari (1997) (Farmers practices)
Details of technologies selected for assessment Treatments	T2: GNR-3 (2012) T3: GR-17(Sardar) (2018)
Source of technology	NAU, Navsari
No. of farmers	10
Area of each trial	0.3 ha
No of trial	10
Critical input	Seeds
Performance indicators Observation to be recorded	Yield, B:C ratio & Earliness
Cost of input	234 Rs / trial
Total cost	2340 Rs

OFT: -2 Crop Production

Crop/Enterprise	**Sesame**
Title of on-farm trial	Assessment of sesame variety for summer cultivation
Problem diagnosed	Farmers of Surat districts growing sesame in summer season are getting low yield due to use of local varieties, which are very susceptible to leaf Webber/capsule borer. Therefore, this OFT is planned with a view to make farmer aware about resistant variety having bold sized seed and high yield.
Farming situation	Irrigated
Production system and thematic area	Paddy-Vegetables-Oilseed or Pulses ICM
Farmers' practices	T1: Local Variety (Farmers practices)
Details of technologies selected for assessment Treatments	T2: GT-3 T3: GT-5
Source of technology	JAU, Junagadh
No. of farmers	10
Area of each trial	0.3 ha
No of trial	10
Critical input	Seeds
Performance indicators Observation to be recorded	Yield, B:C ratio & Earliness
Cost of input	600 Rs / trial
Total cost	6000 Rs.

OFT:3 Plant Protection (New)

Crop/Enterprise	**Paddy**
Title of on-farm trial	Management of yellow stem borer in paddy
Problem diagnosed	Infestation of yellow stem borer and lower yield in paddy
Farming situation	Paddy cultivated area of Surat district
Production system and thematic area	Integrated Pest Management
Farmers' practices	T_1: Farmers practices as injudicious and indiscriminate use of pesticides (*e.g.* Chlorpyrifos 50% + Cypermethrin 05% EC, Lambda-cyhalothrin 2.5% EC & 5% EC) at irregular time interval
Details of technologies selected for assessment Treatments	T_2: Before transplanting, root dipping of rice seedlings for 3 hours in thiamethoxam 25% WG @ 4g/10 lit. water solution and field application of chlorantraniliprole 0.4% GR @ 10 kg/ha after 30 days of transplanting
Source of technology	Navsari Agricultural University, 2024
No. of farmers	5
Area of each trial	0.3 ha
No of trial	5
Critical input	Thiamethoxam 25% WG, 50 gm x 5 = 250 gm Chlorantraniliprole 18.5 SC, 2 kg x 5 = 10 kg
Performance indicators Observation to be recorded	1. Dead heart (%) 2. White ear head (%) 3. Yield 4. B:C ratio
Cost of input	Rs.800/-
Total cost	Rs.4000/-



OFT:4 Plant Protection

Crop/Enterprise	**Okra**
Title of on-farm trial	Management of shoot and fruit borer in okra
Problem diagnosed	Infestation of shoot and fruit borer in okra
Farming situation	Vegetable belt of Surat district
Production system and thematic area	Integrated Pest Management
Farmers' practices	Farmers practices as injudicious and indiscriminate use of pesticides (e.g. Chlorpyrifos 20 % EC, Profenofos 40 % + Cypermethrin 04 % EC, Chlorpyrifos 50 % + Cypermethrin 05 % EC) at irregular time interval
Details of technologies selected for assessment Treatments	T_1: Spray Bacillus thuringiensis 1% WP @ 50 g or 1% AS @ 50 ml in 10 lit waters at 15 days interval for three times from initiation of shoot and fruit borer. T_2: Two sprays of emamectin benzoate 5 % SG @ 5 g/10 lit water, first at initiation of damage and second at 15 days after the first spray
Source of technology	Anand Agricultural University, Anand 2020 & Sardar Dantiwada Agricultural University, Gujarat, 2021
No. of farmers	5
Area of each trial	0.3 ha
No of trial	5
Critical input	Bacillus thuringiensis 10 lit. & Emamectin benzoate 5 % SG 1 kg
Performance indicators Observation to be recorded	Shoot infestation (%), Fruit infestation (%), Yield, B:C ratio
Cost of input	Rs.300/-
Total cost	Rs.1500/-

OFT: 5 Horticulture

Crop/Enterprise	**Indian bean**
Title of on-farm trial	Assessment of different Indian bean varieties
Problem diagnosed	Low yield of in Indian bean.
Farming situation	Irrigated
Production system and thematic area	Integrated Crop Management, introducing new variety, Increase production
Farmers' practices	Local cultivar
Details of technologies selected for assessment Treatments	Assessed Practice (T2) GNIB-22 Assessed Practice (T3) GJIB-2
Source of technology	NAU, Navsari & JAU, Junagadh
No. of farmers	5
Area of each trial	0.1 ha

No of trial	5
Critical input	Seeds
Performance indicators Observation to be recorded	Yield(q/ha), B:C ratio
Cost of input	1120 Rs.
Total cost	5600 Rs.

OFT: 6 Horticulture

Crop/Enterprise	**Greater yam**
Title of on-farm trial	Varietal assessment of grater yam
Problem diagnosed	Low yield of Greater Yam
Farming situation	Rainfed
Production system and thematic area	Integrated Crop Management, Introducing new variety, Increase production
Farmers' practices	Local cultivar
Details of technologies selected for assessment Treatments	Assessed Practice (T2) GGY-1 (Hemlata) (2019)
Source of technology	NAU, Navsari
No. of farmers	5
Area of each trial	0.1 ha
No of trial	5
Critical input	Tuber
Performance indicators Observation to be recorded	Yield(q/ha), B:C ratio
Cost of input	150 Rs.
Total cost	750 Rs.

3.3. Frontline Demonstrations

A. Details of FLDs to be organized

Crop	Season	Purpose of demon.	Farming situation	Variety	Area (ha)	No. of farmers/ demon.	Critical inputs with cost (Rs.)	Cost of critical inputs (Rs)	Parameters of observation
Paddy	*Kharif-24*	New Hybrid	Rainfed	GRH-2	5	15	Seed	12000	Yield & B:C Ratio
Paddy	*Kharif-24*	New Variety	Irrigated	GR-17 (Sardar)	5	12	Seed	4000	Yield & B:C Ratio
Paddy	*Kharif-24*	New Variety	Irrigated	GR-25 (Mahatma)	5	12	Seed	4000	Yield & B:C Ratio
Paddy	*Kharif-24*	New Variety	Rainfed	GR – 18 (Devli kolam)	5	12	Seed	4000	Yield & B:C Ratio
Paddy	*Kharif-24*	New Variety	Rainfed	GR-16(Tapi)	5	12	Seed	4000	Yield & B:C Ratio
Paddy	*Kharif-24*	New Variety	Irrigated/ Rainfed	GR-24 Navsari Parimal	5	12	Seed	4000	Yield & B:C Ratio
Paddy	*Kharif-24*	New Variety	Rainfed	GNR-9 Lal Kada Gold	5	12	Seed	4000	Yield & B:C Ratio
Pigeon Pea	*Kharif-24*	New Variety	Partially Irrigated	GNP-2/GT-104/105	15	36	Seed	3000	Yield & B:C Ratio
Soybean	*Kharif-24*	New Variety	Rainfed	KDS-344/ NRC37	5	12	Seed	27000	Yield & B:C Ratio
Cotton	*Kharif-24*	New Variety	Rainfed	G Cot.-Hy-8(Bt)	5	12	Seed	20000	Yield & B:C Ratio
Sorghum	*Kharif-24*	New Variety	Partially Irrigated	GNJ-1	5	12	Seed	5400	Yield & B:C Ratio
Sorghum	*Rabi-24*	New Variety	Irrigated	Phule Revati	5	12	Seed	5400	Yield & B:C Ratio
Green gram	*Summer-25*	New Variety	Irrigated	GM-6 or 7	5	12	Seed	10000	Yield & B:C Ratio
Banana	*Kharif-24*	OLN	Irrigated	--	4	10	NPK Bio Fert. & Novel	5000	Yield & B:C Ratio
Brinjal	*Rabi-24*	OLN	Irrigated	--	4	10	NPK Bio Fert. & Novel	5000	Yield & B:C Ratio
Pointed gourd	*Kharif-24*	New Variety	Rainfed	GNPG-1	4	10	NPK Bio Fert. & Novel	5000	Yield & B:C Ratio
Little Gourd	*Late Kharif-24*	New Variety	Rainfed	GNLG-1	4	10	Seedling	25000	Yield & B:C Ratio

Sweet Potato	Rabi-24	New Variety	Irrigated	C-71	1	5	Cutting	25000	Yield & B:C Ratio
Elephant Foot Yam	*Kharif-24*	New Variety	Rainfed	Gajendra	1	5	Tuber	15000	Yield & B:C Ratio
Okra	*Summer-24*	OLN	Irrigated	--	4	10	NPK Bacteria & Novel	5000	Yield & B:C Ratio
Indian Bean	*Late Kharif-24*	New Variety	Irrigated	GNIB-22	4	10	Seed	30000	Yield & B:C Ratio
Cluster bean	*Summer-24*	--	Irrigated	OLN-Novel	2	10	OLN	6500	Yield & B:C Ratio
Mango	*Rabi-24*	--	--	OLN-Novel	4	10	OLN	6500	Yield & B:C Ratio
Paddy	*Kharif*-24	IPDM	Irrigated	--	4	10	Novel Plus, Pseudomonas, Pheromone traps, Lures, Propiconazole 25 % EC, Chlorantraniliprole 0.4% GR or 18.5% SC	24500	Yield & B:C Ratio
Sugarcane	*Rabi*-24	IPDM	Irrigated	--	4	10	Trichogramma, Trichoderma, Novel Plus, Novel Prime, Chlorantraniliprole 0.4 % GR	17500	Yield & B:C Ratio
Banana	*Kharif*-24	IPDM	Irrigated	--	4	10	Trichoderma, Novel Plus, Novel Prime	9000	Yield & B:C Ratio
Mango	*Rabi*-24	IPDM	Irrigated	--	4	10	Methyle Eugenol Trap, Lure (Block), Novel Plus, Novel Prime, Lecanicillium lecanii	8500	Yield & B:C Ratio
Brinjal	Late *Kharif*-24/*Rabi*-24	IPDM	Irrigated	--	4	10	Novel Plus, Pseudomonas, Trichoderma, Metarhizium anisopliae, Pheromone traps, Lures, Yellow sticky traps, Emamectin benzoate, Flonicamid	25000	Yield & B:C Ratio

Okra	*Kharif*-24/*Rabi*-24	IPDM	Irrigated	--	4	10	Novel Plus, Trichoderma, Pseudomonas, Beauveria bassiana, Pheromone traps, Lures, Yellow sticky traps, Emamectin benzoate, Thiamethoxam	28000	Yield & B:C Ratio
Mushroom	*Kharif*-24/*Rabi*-24	For mushroom farming awareness	--	--	25 Unit	25	Mushroom kit: (Spawn, Formaline, Carbendazim, Plastic bags)	25000	Mushroom yield
Kitchen garden	*Kharif-24*	Kitchen gardening	Irrigated	Different vegetables	-	100	Seed & Seedlings	18000	Yield
Kitchen garden	*Rabi-24*	Kitchen gardening	Irrigated	Different vegetables	-	100	Seed & Seedlings	18000	Yield
Vegetables / pulses	*Rabi-24*	Twin wheel hoe weeder to reduce women drudgery	--	--	--	10	Twin Wheel Hoe	20000	Field capacity (ha/hr), drudgery parameters like physical hazards, muscle stress, fatigue
Dry matter of crops/ harvesting/ garbage	*Rabi-24*	Rake for collecting garbage/ harvesting to reduce women drudgery	--	--	--	50	Rake for collecting garbage/ harvesting	25000	Field capacity (ha/hr), drudgery parameters like physical hazards, muscle stress, fatigue
Cotton, Pigeon pea/ concerned crops	*Rabi-24*	Stalk puller for uprooting crop stalks to reduce women drudgery	--	--	--	20	Stalk Puller	24000	Field capacity (ha/hr), drudgery parameters like physical hazards, muscle stress, fatigue

Sponsored Demonstration (CFLDs on Oilseed & Pulses/Others)

S. No.	Crop	Variety	Season and Year	Area (ha)	No. of farmers
1	Soybean	NRC-37	Kharif-24	60	150
			Total	**60**	**150**

B. Extension and Training activities under FLDs

Sr. No.	Activity	No. of activities	Month	Number of participants
1	Field days	10	As per FLDs	365
2	Farmers Training	25	,,	650
3	Media coverage	5	,,	2500
4	Training for extension functionaries	-	-	-

C. Details of FLD on Enterprises

a. Farm Implements

Name of the implement	Crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / Indicators
Twin wheel hoe weeder	Vegetables/Pulses	Rabi-2024-25	10	--	Twin wheel hoe weeder (Rs.20000)	Field capacity, Labour requirement, cost of operation, drudgery parameters like physical hazards, muscle stress, fatigue
Rake for collecting garbage/ harvesting	Dry matter of crops/ harvesting/ garbage	Rabi-2024-25	50	--	Rake for collecting garbage/ harvesting (Rs.25000)	Field capacity (ha/hr), drudgery parameters like physical hazards, muscle stress, fatigue
Stalk puller for uprooting crop stalk	Cotton, Pigeonpea	Rabi-2024-25	20	--	Stalk puller for uprooting crop stalk (Rs.24000)	Field capacity(ha/hr), drudgery parameters like physical hazards, muscle stress, fatigue

b. Livestock Enterprises

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

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

Enterprise	Technology demonstrated	No. of farmers	No. of units	Critical inputs	Performance parameters/indicators
Kitchen garden (Kharif-24)	Nutrition Management	100	100	Vegetables Seeds and NOVEL (Rs. 18000)	Yield of vegetables
Kitchen garden (Rabi-24)	Nutrition Management	100	100	Vegetables Seeds and NOVEL (Rs. 18000)	Yield of vegetables

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

A. ON Campus

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I. Crop Production								
Weed Management								
Resource Conservation Technologies								
Cropping Systems								
Crop Diversification								
Integrated Farming								
Water management								
Seed production								
Nursery management								
Integrated Crop Management	2	12	13	25	13	12	25	50
Integrated nutrient management	1	0	0	0	10	15	25	25
Production of organic inputs	1	0	0	0	15	10	25	25
Fodder production								
Total	**4**	**12**	**13**	**25**	**38**	**37**	**75**	**100**
II. Horticulture								
a) Vegetable Crops								
Production of low volume and high value crops								
Off-season vegetables								
Nursery raising	2	25	25	50	0	0	0	50
Exotic vegetables like Broccoli								
Export potential vegetables								
Grading and standardization								
Protective cultivation (Green Houses, Shade Net etc.)								
Urban gardening	3	50	25	75	0	0	0	75
b) Fruits								
Training and Pruning								
Layout and Management of Orchards								
Cultivation of Fruit								
Management of young plants/orchards								

Rejuvenation of old orchards								
Export potential fruits								
Micro irrigation systems of orchards								
Plant propagation techniques								
c) Ornamental Plants								
Nursery Management								
Management of potted plants								
Export potential of ornamental plants								
Propagation techniques of Ornamental Plants								
d) Plantation crops								
Production and Management technology								
Processing and value addition								
e) Tuber crops								
Production and Management technology								
Processing and value addition								
f) Spices								
Production and Management technology								
Processing and value addition								
g) Medicinal and Aromatic Plants								
Nursery management								
Production and management technology								
Post-harvest technology and value addition								
Total	**5**	**75**	**50**	**125**	**00**	**00**	**00**	**125**
III. Soil Health and Fertility Management								
Soil fertility management								
Soil and Water Conservation								
Integrated Nutrient Management	2	20	5	25	20	5	25	50
Production and use of organic inputs								
Management of Problematic soils								
Micro nutrient deficiency in crops								
Nutrient Use Efficiency								
Balance use of fertilizers	1	0	0	0	15	10	25	25
Soil and Water Testing								
Total	**3**	**20**	**5**	**25**	**35**	**15**	**50**	**75**

IV. Livestock Production and Management								
Dairy Management								
Poultry Management								
Piggery Management								
Rabbit Management/goat								
Disease Management								
Feed management								
Production of quality animal products								
V. Home Science/Women empowerment								
Household food security by kitchen gardening and nutrition gardening	1	0	20	20	0	5	5	25
Design and development of low/minimum cost diet	1	0	20	20	0	5	5	25
Designing and development for high nutrient efficiency diet	1	0	20	20	0	5	5	25
Minimization of nutrient loss in processing								
Gender mainstreaming through SHGs								
Storage loss minimization techniques								
Value addition	1	0	20	20	0	5	5	25
Income generation activities for empowerment of rural Women								
Location specific drudgery reduction technologies								
Rural Crafts								
Women and child care								
Total	**4**	**0**	**80**	**80**	**0**	**20**	**20**	**100**
VI. Agri. Engineering								
Installation and maintenance of micro irrigation systems								
Use of Plastics in farming practices								
Production of small tools and implements								
Repair and maintenance of farm machinery and implements								
Small scale processing and value addition								
Post-Harvest Technology								
VII. Plant Protection								
Integrated Pest Management	2	20	5	25	20	5	25	50
Integrated Disease Management	2	0	0	0	40	10	50	50
Bio-control of pests and diseases								
Production of bio control agents and bio pesticides								

Natural farming								
Management of Store grain pests								
Total	**4**	**20**	**5**	**25**	**60**	**15**	**75**	**100**
VIII. Fisheries								
Integrated fish farming								
Carp breeding and hatchery management								
Carp fry and fingerling rearing								
Composite fish culture								
Hatchery management and culture of freshwater prawn								
Breeding and culture of ornamental fishes								
Portable plastic carp hatchery								
Pen culture of fish and prawn								
Shrimp farming								
Edible oyster farming								
Pearl culture								
Fish processing and value addition								
IX. Production of Inputs at site								
Seed Production								
Planting material production								
Bio-agents production								
Bio-pesticides production								
Bio-fertilizer production								
Vermi-compost production								
Organic manures production								
Production of fry and fingerlings								
Production of Bee-colonies and wax sheets								
Small tools and implements								
Production of livestock feed and fodder								
Production of Fish feed								
X. Capacity Building and Group Dynamics								
Leadership development								
Group dynamics								
Formation and Management of SHGs								
Mobilization of social capital								
Entrepreneurial development of farmers/youths								

WTO and IPR issues								
XI. Agro-forestry								
Production technologies								
Nursery management								
Integrated Farming Systems								
XII. Others (Pl. Specify)								
TOTAL (On Campus)	**20**	**127**	**153**	**280**	**133**	**87**	**220**	**500**
(B) RURAL YOUTH								
Mushroom Production	2	5	5	10	10	20	30	40
Bee-keeping								
Integrated farming								
Seed production								
Production of organic inputs	1	0	0	0	10	10	20	20
Integrated Farming (Medicinal)								
Planting material production								
Vermi-culture								
Sericulture								
Protected cultivation of vegetable crops								
Commercial fruit production								
Repair and maintenance of farm machinery and implements								
Nursery Management of Horticulture crops	1	0	0	0	10	10	20	20
Training and pruning of orchards								
Value addition	1	0	0	0	0	20	20	20
Production of quality animal products								
Dairying								
Sheep and goat rearing								
Quail farming								
Piggery								
Rabbit farming								
Poultry production								
Ornamental fisheries								
Para vets								
Para extension workers								
Composite fish culture								
Freshwater prawn culture								

Shrimp farming								
Pearl culture								
Cold water fisheries								
Fish harvest and processing technology								
Fry and fingerling rearing								
Small scale processing								
Post-Harvest Technology								
Tailoring and Stitching								
Rural Crafts								
TOTAL	**5**	**5**	**5**	**10**	**30**	**60**	**90**	**100**
(C) Extension Personnel								
Productivity enhancement in field crops	2	45	5	50	10	00	10	60
Integrated Pest Management	1	30	0	30	0	0	0	30
Integrated Nutrient management								
Rejuvenation of old orchards								
Protected cultivation technology								
Formation and Management of SHGs								
Group Dynamics and farmers organization								
Information networking among farmers								
Capacity building for ICT application								
Care and maintenance of farm machinery and implements								
WTO and IPR issues								
Management in farm animals								
Livestock feed and fodder production								
Household food security								
Women and Child care	1	00	00	00	0	30	30	30
Low cost and nutrient efficient diet designing								
Production and use of organic inputs								
Gender mainstreaming through SHGs								
Natural farming in field crops								
Others-Nursery management	1	20	00	20	10	00	10	30
Others- Training for field workers of NGOs	1	15	5	20	5	5	10	30
TOTAL	**6**	**110**	**10**	**120**	**25**	**35**	**60**	**180**
G. Total (On Campus)	**31**	**242**	**168**	**410**	**188**	**182**	**370**	**780**

B. OFF Campus

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I. Crop Production								
Weed Management								
Resource Conservation Technologies								
Cropping Systems	2	0	0	0	40	20	60	60
Crop Diversification								
Integrated Farming	2	0	0	0	40	20	60	60
Micro Irrigation/irrigation								
Seed production	2	0	0	0	40	20	60	60
Nursery management	2	0	0	0	30	30	60	60
Integrated Crop Management	3	0	0	0	45	45	90	90
Soil & water conservation								
Integrated nutrient management	2	0	0	0	40	20	60	60
Production of organic inputs								
Others (pl specify) Natural Farming	2	0	0	0	30	30	60	60
Total	**15**	**0**	**0**	**0**	**265**	**185**	**450**	**450**
II. Horticulture								
a) Vegetable Crops								
Production of low volume and high value crops								
Off-season vegetables								
Nursery raising								
Exotic vegetables like Broccoli								
Export potential vegetables								
Grading and standardization								
Protective cultivation (Green Houses, Shade Net etc.)	1	0	0	0	20	10	30	30
b) Fruits								
Training and Pruning	1	0	0	0	20	10	30	30
Layout and Management of Orchards								
Cultivation of Fruit	2	0	0	0	40	20	60	60
Management of young plants/orchards	1	0	0	0	20	10	30	30

Rejuvenation of old orchards								
Export potential fruits								
Micro irrigation systems of orchards	1	0	0	0	20	10	30	30
Plant propagation techniques	1	0	0	0	20	10	30	30
c) Ornamental Plants								
Nursery Management								
Management of potted plants								
Export potential of ornamental plants								
Propagation techniques of Ornamental Plants								
d) Plantation crops								
Production and Management technology								
Processing and value addition								
e) Tuber crops								
Production and Management technology	1	0	0	0	20	10	30	30
Processing and value addition								
f) Spices								
Production and Management technology								
Processing and value addition								
g) Medicinal and Aromatic Plants								
Nursery management								
Production and management technology								
Post-harvest technology and value addition								
Total	**8**	**0**	**0**	**0**	**160**	**80**	**240**	**240**
III. Soil Health and Fertility Management								
Soil fertility management								
Soil and Water Conservation								
Integrated Nutrient Management								
Production and use of organic inputs								
Management of Problematic soils								
Micro nutrient deficiency in crops								
Nutrient Use Efficiency								
Soil and Water Testing								
IV. Livestock Production and Management								
Dairy Management								
Poultry Management								

Piggery Management								
Rabbit Management /goat								
Disease Management								
Feed/ Nutrition management								
Production of quality animal products								
V. Home Science/Women empowerment								
Household food security by kitchen gardening and nutrition gardening	2	0	0	0	0	60	60	60
Design and development of low/minimum cost diet	1	0	0	0	0	30	30	30
Designing and development for high nutrient efficiency diet	1	0	0	0	0	30	30	30
Minimization of nutrient loss in processing								
Gender mainstreaming through SHGs								
Storage loss minimization techniques								
Value addition	4	0	0	0	0	120	120	120
Income generation activities for empowerment of rural Women								
Location specific drudgery reduction technologies	3	0	0	0	0	90	90	90
Rural Crafts								
Women and child care	1	0	0	0	0	30	30	30
Total	**12**	**0**	**0**	**0**	**0**	**360**	**360**	**360**
VI. Agril. Engineering								
Installation and maintenance of micro irrigation systems								
Use of Plastics in farming practices								
Production of small tools and implements								
Repair and maintenance of farm machinery and implements								
Small scale processing and value addition								
Post Harvest Technology								
VII. Plant Protection								
Integrated Pest Management	5	25	5	30	100	20	120	150
Integrated Disease Management	4	25	5	30	75	15	90	120
Bio-control of pests and diseases	1	25	5	30	0	0	0	30
Production of bio control agents and bio pesticides								
Natural farming								

Plant protection in medicinal and aromatic crops	1	0	0	0	25	5	30	30
Total	**11**	**75**	**15**	**90**	**200**	**40**	**240**	**330**
VIII. Fisheries								
Integrated fish farming								
Carp breeding and hatchery management								
Carp fry and fingerling rearing								
Composite fish culture								
Hatchery management and culture of freshwater prawn								
Breeding and culture of ornamental fishes								
Portable plastic carp hatchery								
Pen culture of fish and prawn								
Shrimp farming								
Edible oyster farming								
Pearl culture								
Fish processing and value addition								
IX. Production of Inputs at site								
Seed Production								
Planting material production (Horti.)								
Bio-agents production								
Bio-pesticides production								
Bio-fertilizer production								
Vermi-compost production (Horti.)								
Organic manures production (A.S.)								
Production of fry and fingerlings								
Production of Bee-colonies and wax sheets								
Small tools and implements								
Production of Fish feed								
X. Capacity Building and Group Dynamics								
Leadership development								
Group dynamics								
Formation and Management of SHGs(HS)								
Mobilization of social capital								
Entrepreneurial development of farmers/youths (Agro.)								
WTO and IPR issues								
XI. Agro-forestry								

Production technologies								
Nursery management								
Integrated Farming Systems (Agro)								
XII. Others (Pl. Specify)								
TOTAL (Off Campus)	**46**	**75**	**15**	**90**	**625**	**665**	**1290**	**1380**

C. Consolidated table (ON and OFF Campus)

Thematic Area	**No. of Courses**	**No. of Participants**						
		Others			**SC/ST**			**Grand Total**
		Male	**Female**	**Total**	**Male**	**Female**	**Total**	
(A) Farmers & Farm Women								
I. Crop Production								
Weed Management								
Resource Conservation Technologies								
Cropping Systems	2	0	0	0	40	20	60	60
Crop Diversification								
Integrated Farming	2	0	0	0	40	20	60	60
Micro Irrigation/irrigation								
Seed production	2	0	0	0	40	20	60	60
Nursery management	2	0	0	0	30	30	60	60
Integrated Crop Management	5	12	13	25	58	57	115	140
Soil & water conservation								
Integrated nutrient management	3	0	0	0	50	35	85	85
Production of organic inputs	1	0	0	0	15	10	25	25
Others (pl specify) Natural Farming	2	0	0	0	30	30	60	60
Total	**19**	**12**	**13**	**25**	**303**	**222**	**525**	**550**
II. Horticulture								
a) Vegetable Crops								
Production of low volume and high value crops								
Off-season vegetables								
Nursery raising	2	25	25	50	0	0	0	50
Exotic vegetables like Broccoli								
Export potential vegetables								
Grading and standardization								

Protective cultivation (Green Houses, Shade Net etc.)	1	0	0	0	20	10	30	30
Urban Gardening	3	50	25	75	0	0	0	75
b) Fruits								
Training and Pruning	1	0	0	0	20	10	30	30
Layout and Management of Orchards								
Cultivation of Fruit	2	0	0	0	40	20	60	60
Management of young plants/orchards	1	0	0	0	20	10	30	30
Rejuvenation of old orchards								
Export potential fruits								
Micro irrigation systems of orchards	1	0	0	0	20	10	30	30
Plant propagation techniques	1	0	0	0	20	10	30	30
c) Ornamental Plants								
Nursery Management								
Export potential of ornamental plants								
Propagation techniques of Ornamental Plants								
d) Plantation crops								
Production and Management technology								
Processing and value addition								
e) Tuber crops								
Production and Management technology	1	0	0	0	20	10	30	30
Processing and value addition								
f) Spices								
Production and Management technology								
Processing and value addition								
g) Medicinal and Aromatic Plants								
Nursery management								
Production and management technology								
Post-harvest technology and value addition								
Total	**13**	**75**	**50**	**125**	**160**	**80**	**240**	**365**
III. Soil Health and Fertility Management								
Soil fertility management								
Soil and Water Conservation								
Integrated Nutrient Management	2	20	5	25	20	5	25	50
Production and use of organic inputs								

Management of Problematic soils								
Micro nutrient deficiency in crops								
Nutrient Use Efficiency								
Soil and Water Testing								
Balance use of fertilizers	1	0	0	0	15	10	25	25
Total	**3**	**20**	**5**	**25**	**35**	**15**	**50**	**75**
IV. Livestock Production and Management								
Dairy Management								
Poultry Management								
Piggery Management								
Rabbit Management/goat								
Disease Management								
Feed management								
Production of quality animal products								
V. Home Science/Women empowerment								
Household food security by kitchen gardening and nutrition gardening	3	0	20	20	0	65	65	85
Design and development of low/minimum cost diet	2	0	20	20	0	35	35	55
Designing and development for high nutrient efficiency diet	2	0	20	20	0	35	35	55
Minimization of nutrient loss in processing								
Gender mainstreaming through SHGs								
Storage loss minimization techniques								
Value addition	5	0	20	20	0	125	125	145
Income generation activities for empowerment of rural Women								
Location specific drudgery reduction technologies	3	0	0	0	0	90	90	90
Rural Crafts								
Women and child care	1	0	0	0	0	30	30	30
Total	**16**	**0**	**80**	**80**	**0**	**380**	**380**	**460**
VI. Agril. Engineering								
Installation and maintenance of micro irrigation systems								
Use of Plastics in farming practices								
Production of small tools and implements								
Repair and maintenance of farm machinery and								

implements								
Small scale processing and value addition								
Post-Harvest Technology								
VII. Plant Protection								
Integrated Pest Management	7	45	10	55	120	25	145	200
Integrated Disease Management	6	25	5	30	115	25	140	170
Bio-control of pests and diseases	1	25	5	30	0	0	0	30
Production of bio control agents and bio pesticides								
Natural farming								
Store grain pests and its management								
Plant protection in medicinal and aromatic crops	1	0	0	0	25	5	30	30
Total	**15**	**95**	**20**	**115**	**260**	**55**	**315**	**430**
VIII. Fisheries								
Integrated fish farming								
Carp breeding and hatchery management								
Carp fry and fingerling rearing								
Composite fish culture								
Hatchery management and culture of freshwater prawn								
Breeding and culture of ornamental fishes								
Portable plastic carp hatchery								
Pen culture of fish and prawn								
Shrimp farming								
Edible oyster farming								
Pearl culture								
Fish processing and value addition								
IX. Production of Inputs at site								
Seed Production								
Planting material production								
Bio-agents production								
Bio-pesticides production								
Bio-fertilizer production								
Vermi-compost production								
Organic manures production								
Production of fry and fingerlings								
Production of Bee-colonies and wax sheets								

Small tools and implements								
Production of livestock feed and fodder								
Production of Fish feed								

X. Capacity Building and Group Dynamics								
Leadership development								
Group dynamics								
Formation and Management of SHGs								
Mobilization of social capital								
Entrepreneurial development of farmers/youths								
WTO and IPR issues								
XI. Agro-forestry								
Production technologies								
Nursery management								
Integrated Farming Systems								
Sponsored training								
Total (On + Off Campus)	**66**	**202**	**168**	**370**	**758**	**752**	**1510**	**1880**
(B) RURAL YOUTH								
Mushroom Production	2	5	5	10	10	20	30	40
Bee-keeping								
Integrated farming								
Seed production								
Production of organic inputs	1	0	0	0	10	10	20	20
Integrated Farming								
Planting material production								
Vermi-culture								
Sericulture								
Protected cultivation of vegetable crops								
Commercial fruit production								
Repair and maintenance of farm machinery and implements								
Nursery Management of Horticulture crops	1	0	0	0	10	10	20	20
Training and pruning of orchards								
Value addition	1	0	0	0	0	20	20	20

Production of quality animal products								
Dairying								
Sheep and goat rearing								
Quail farming								
Piggery								
Rabbit farming								
Poultry production								
Ornamental fisheries								
Para vets								
Composite fish culture								
Freshwater prawn culture								
Shrimp farming								
Pearl culture								
Cold water fisheries								
Fish harvest and processing technology								
Fry and fingerling rearing								
Small scale processing								
Post-Harvest Technology								
Tailoring and Stitching								
Rural Crafts								
Total	**5**	**5**	**5**	**10**	**30**	**60**	**90**	**100**
(C) Extension Personnel								
Productivity enhancement in field crops	2	45	5	50	10	00	10	60
Integrated Pest Management	1	30	0	30	0	0	0	30
Integrated Nutrient management								
Rejuvenation of old orchards								
Protected cultivation technology								
Formation and Management of SHGs								
Group Dynamics and farmers organization								
Information networking among farmers								
Capacity building for ICT application								
Care and maintenance of farm machinery and implements								
WTO and IPR issues								
Management in farm animals								
Livestock feed and fodder production								

Household food security								
Women and Child care	1	00	00	00	0	30	30	30
Low cost and nutrient efficient diet designing								
Production and use of organic inputs								
Gender mainstreaming through SHGs								
Natural farming in field crops								
Others-Nursery management	1	20	00	20	10	00	10	30
Others- Training for field workers of NGOs	1	15	5	20	5	5	10	30
Total	**6**	**110**	**10**	**120**	**25**	**35**	**60**	**180**
G. TOTAL	**77**	**317**	**183**	**500**	**813**	**847**	**1660**	**2160**

3.5. Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	10	160	180	340	15	10	25	175	190	365
Kisan Mela	1	500	500	1000	10	2	12	510	502	1012
Kisan Ghosthi	5	150	100	250	6	4	10	156	104	260
Exhibition	2	400	500	900	2	2	4	402	502	904
Film Show	30	400	300	700	25	10	35	425	310	735
Farmers Seminar	2	300	200	500	5	5	10	305	205	510
Method Demonstration	30	500	400	900	2	2	4	502	402	904
Group meetings	15	100	100	200	10	5	15	110	105	215
Lectures delivered as resource persons	20	400	400	800	15	5	20	415	405	820
Newspaper coverage	20	-	-	-	-	-	-	-	-	-
TV talks	1	-	-	-	-	-	-	-	-	-
Popular articles	2	-	-	-	-	-	-	-	-	-
Extension Literature	04	-	-	-	-	-	-	-	-	-
Scientific visit to farmers field	45	250	50	300	35	15	50	285	65	350
Farmers visit to KVK	650	-	-	-	-	-	-	-	-	500

Diagnostic visits	20	40	20	60	15	5	20	55	25	80
Exposure visits	02	20	20	40	1	1	2	21	21	42
Ex-trainees Sammelan	01	25	25	50	1	1	2	26	26	52
Soil health Camp	01	100	0	100	5	0	5	105	0	105
Advisory	100	-	-	-	-	-	-	-	-	2700
Telephone helpline	48	2500	1500	4000	50	20	70	2550	1520	4070
Special day celebration	10	600	400	1000	10	5	15	610	405	1015
Khedut Shibir	2	150	60	210	5	5	10	155	65	220
SHG meetings	1	00	25	25	2	2	4	2	27	29
Mahila Shibir	2	0	140	140	0	2	2	0	142	142
Celebration of important days	7	150	150	300	10	5	15	160	155	315
Total	**1031**	**6745**	**5070**	**11815**	**224**	**106**	**330**	**6969**	**5176**	**15345**

3.6. Target for Production and supply of Technological products

SEED MATERIALS

Sl. No.	Crop	Variety	Quantity (qtl.)
CEREALS			
1	Paddy (Summer)	Sardar	180 (4.50 ha)
2	Paddy (Kharif)	Sardar	420 (10.50 ha)
OIL SEEDS			
--	--	--	--
PULSES			
--	--	--	--
OTHERS			
--	--	--	--

PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
VEGETABLES			
1	Brinjal, Tomato, Chilies, Cabbage, Cauliflower, Little gourd	Improve SAU varieties/Hybrid	50000

BIO-PRODUCTS

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
BIO PESTICIDES	--	--	--	--
-	--	--	--	--

LIVESTOCK

Sl. No.	Type	Breed	Quantity	
			(Nos)	Unit
Cattle	--	--	--	--
Goat	--	--	--	--
Sheep	--	--	--	--
Poultry	--	--	--	--
Pig farming	--	--	--	--
Fisheries	--	--	--	--

VALUE ADDED PRODUCTS

Crop / Commodity	Name of the product	Quantity to be prepared (kg or liter)	Sale value (Rs)
Fruit crops			
	--	--	--
Vegetables	--	--	--
	--	--	--
Cereals and Millets	--	--	--
	--	--	--
	--	--	--
Oilseeds and pulses	--	--	--
	--	--	--
Spices and condiments	--	--	--
	--	--	--
	--	--	--
Any other (Pl specify)	--	--	--
	--	--	--

3.7. Action plan for management of KVK instructional farm

Total land with KVK: 14.51 ha Cultivable land 12.55 ha (Irrigated: 12.55 ha, Rainfed: 00 ha)

Micro-irrigation facility available at KVK: No.

S. No.	Name of crop	Area (ha)	Variety	Date of sowing / Planting	Date of harvest	Expected yield (q)
1	Crops	--	--	--	--	--
		--	--	--	--	--
2	Fruit crops	--	--	--	--	--
		--	--	--	--	--
3	Vegetable crops (Seedling)	0.40	SAU/Hybrid	Kharif & Rabi-2024	After 1 month	50000 (No.)
4	Seed production					
	Paddy (Summer)	4.50	GR-17	Jan. 2024	May 2024	180
	Paddy (Kharif)	10.55	GR-17	July 2024	Oct. 2024	420
	Soybean	--	--	--	--	--
	Greengram	--	--	--	--	--
5	Fodder crops					
		--	--	--	--	--
6	Technology cafeteria*	2.00				
		--	--	--	--	--
7	Nutritional Garden*					
		--	--	--	--	--
9	IFS Model*					
		--	--	--	--	--

4. Literature to be Developed/Published

A. Literature developed/published

Sr. No.	Topic	Number
1	Research paper	4
2	Technical reports	10
3	News letters	0
4	Training manual all discipline	As per need
5	Popular article	2
6	Extension literature	4
7	E-publication	--
8	Any other (Please specify)	--
	Total	**20**

B. Details of Electronic Media to be produced

Sr. No.	Type of media (CD / VCD / DVD / Audio-Cassette) and video clippings	Title of the programme	Number
1	Video Clipping	KVK activity	1

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

S. No.	Type of social media platform	Title / Purpose	Number
1	YouTube Channel	KVK Surat	1
2	Facebook page	KVK Surat	1
3	Mobile Apps	--	--
4	WhatsApp groups	Advisory	30
5	Twitter Account	KVK Surat	1
6	Any other (Pl. Specify)	--	--

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

S. No.	Title of success story / case study identified	Proposed month for case/story to be prepared/ developed
1		
2		

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

A. Practicing Farmers

a) PRA

b) Group Discussion

c) Field Level Observation

B. Rural Youth

a) PRA

b) Group Discussion

c) Field Level Observation

C. In-service personnel

a) Discussion with extension workers

b) Discussion with Line Departmrnt officials

c) Discussion with NGOs

5.2. Indicate the methodology for identifying OFTs/FLDs

For OFT:

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

For FLD:

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

5.3. Field activities

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

6. LINKAGES

6.1. Functional linkage with different organizations

Name of organization	Nature of linkage
ATMA	Training, Exhibitions, Best ATMA Award Participation
Line departments (Horticulture & Agriculture)	Training and Shibir
Animal Husbandry	Pasupalan Shibir
NABARD	Trainings, FLD distribution
Ambuja Cement Foundation	Trainings, Shibir, Special Day Celebration
Forest	Trainings, Shibir
Care India	Trainings, Special Day Celebration
KVSVS	Trainings, Special Day Celebration

NB: The nature of linkage should be indicated in terms of joint diagnostic survey, joint implementation, participation in meeting, contribution received for infrastructural development, conducting training programmes and demonstration or any other

6.2. Details of linkage with ATMA:

Sr. No.	Programme	Nature of linkage
1	On campus training	Technical expertise , method demonstration
2	Interface meeting	Technical expertise by KVK staff
3	Joint visit of ATMA villages	Diagnostic visit on farmers field
4	Kisan Gosthi	Technical lectures by KVK staff
5	Lecture delivered	Technical expertise by KVK staff
6	Agricultural Fair	Technical expertise by KVK staff
7	Scientist-farmers interaction	Technical expertise by KVK staff
8	Quarterly Conversion Meeting	Technical expertise by KVK staff

6.3. Give details of programmes under National Horticultural Mission

Sr. No.	Programme	Nature of linkage
1	-	-

6.4. Nature of linkage with National Fisheries Development Board

Sr. No.	Programme	Nature of linkage
1	**-**	-

6.5. Additional Activities planned including sponsored projects (NARI/DAESI/DAMU/DFI/PKVY, Skill Trainings, etc.) / schemes during 2023, if involved.

Sr. No.	Name of the agency/Scheme	Name of activity	Technical programme with quantification	Financial outlay (Rs.)	Names of the team members involved
1	-	-	-	-	1. -

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

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

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

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

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

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

6.5.4. Details of activities planned under TSP

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

6.5.5. Details of activities planned under Krishi Kalyan Abhiyan (KKA)

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

6.5.6. Details of seed production planned under Seed Hub on Pulses

S. No.	Name of the crop	Variety	Stage (Foundation / Certified)	Quantity of seed to be produced (q)
-	-	-	-	-

6.6. Activities planned in respect of FPOs / FPCs

1. No. of FPOs / FPCs to be formed: 2

2. No. of existing FPOs / FPCs to be facilitated: 2

3. Type of support to be provided to existing FPOs / FPCs:

S. No	Name of the FPO / FPC	No. of members	Major activities of FPO / FPC	Type of support to be provided by KVK
1	South Gujarat Progressive Farmer Self Reliant Co. Limited	2200	1. Collection & marketing of vegetable & fruits. 2. Selling of Cotton cake for animal feed. 3. Storage & marketing of soybean from local farmers.	Technical guidance related to advanced agricultural techniques.
2	Tribal Farmers producer and supply cooperative society	500	1. Collection & marketing of vegetable & fruits. 2. Agro-input center	Technical guidance related to advanced agricultural techniques.

6.7. Activities planned in respect of developing Integrated Farming System (IFS) Models on farmers' fields during 2024

S. N.	Name of the village	No. of IFS models to be identified / developed	Major components of IFS model
1	Vaheval	1	Agri + Horti + Animal Husbandry
2	Vankal	1	Agri + Horti + Animal Husbandry
3	Zarni	1	Agri + Horti + Animal Husbandry
4	Pinjrat	1	Horti + Agri + + Animal Husbandry

7. Convergence with other agencies and departments:

Sr. No.	Name of the sponsoring agency	Nature of Linkage
1	ATMA	Training, Exhibitions, Best ATMA Award Participation
2	Forest Department	Van-Mahotsav
3	DRDA, Surat	Training
4	Department of Horticulture, Surat	Training, Shibir, Meeting, Seminar
5	Department of Agriculture, Surat	Training, Shibir, Seminar
6	ICDS, Mandvi	Training
7	Community Science Center, Surat	Training, Seminar
8	Ambuja Cement Foundation	Trainings, Meeting
9	Reliance foundation	Trainings, FLD
10	Mandvi Rice mill Co-operative Society, Mandvi	Seminar, Shibir, FLD
11	Adani Foundation, Surat	Shibir, Training
12	Jan Sikshan Sansthan, Surat	Training
13	Unnat Bharat Abhiyan, SVNIT, Surat	Training, Field Visit, Shibir
14	Care India, Umarpada, Choryasi	Training, Field Visit, Shibir
15	The southern Gujarat Chamber of Commerce & Industry	Training
16	KVSVS, Surat	Training, Shibir, FLD, Field Visit

8. Innovator Farmer's Meet 2024

Sr. No.	Particulars	Details	Expected No. of participants
1.	Farm innovators meet planned	Sept.-2024	100

9. Utilization of hostel facilities

S. No.	Month	No. of days to be utilized
1	**Hostel Facility is not available**	
	Total	**--**

10. Details of online activities planned (If any)

S. No.	Type of activities	No. of programmes	Mode of implementation (Video conferencing /Audio Conferencing / Facebook Live/ YouTube Live, etc)	No. of participants to be covered
1	Terrace Garden trainings	3	Google Meet	120

11. Details of collaborative applied research projects planned if any

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

Training Programme

i) Farmers & Farm women (On Campus)

Date	Clientele	Title of the training programme	Duration in days	Number of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
Crop Production										
Jan-Feb-2024	PF	Integrated Crop Management in Pulses/Oilseed	1	20	5	25	0	0	0	25
July-2024	PF	Weed management in Cereal crops	1	20	5	25	0	0	0	25
July-2024	PF	Integrated Nutrient Management in Paddy	1	20	5	25	0	0	0	25
July-2024	PF	Integrated Farming with Crops	1	15	10	25	0	0	0	25
July-2024	PF	Integrated Nutrient Management in Paddy	1	15	10	25	0	0	0	25
September-2024	PF	Integrated Crop Management in Sugarcane	1	20	5	25	0	0	0	25
September-24	PF	Integrated Nutrient Management in Sugarcane	1	20	5	25	0	0	0	25
Horticulture										
Jan – Dec 2024	PF	Urban gardening(3)	3	50	25	75	0	0	0	75
May-2024	PF	Nursery raising of Brinjal	1	10	15	25	0	0	0	25
Nov-2024	PF	Nursery raising of Cole crops	1	15	10	25	0	0	0	25
Livestock production										
	--	--	--	--	--	--	--	--	--	--
Home Science										
June.-2024	FW/PF	Household food security by kitchen gardening	1	0	20	20	0	5	5	25
Aug.-2024	FW/PF	Value addition in fruits and vegetables	1	0	20	20	0	5	5	25
Sept.-2024	FWPF	Balance diet from locally available food materials	1	0	20	20	0	5	5	25
Nov.-2024	FW/PF	High nutrient efficiency diet from cereals and pulses	1	0	20	20	0	5	5	25
Plant protection										
July 2024	FW/PF	Integrated pest & disease management in paddy	1	20	5	25	0	0	0	25
September-2024	FW/PF	Integrated pest & disease management in field crops(2)	1	0	0	0	40	10	50	50
November-2024	FW/PF	Integrated pest & disease management in horticultural crops	1	0	0	0	20	5	25	25

i) Farmers & Farm women (Off Campus)

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			Grand Total
				M	F	T	M	F	T	
Crop Production										
Feb-2024	PF	Seed Production in Pulses	1	0	0	0	20	10	30	30
May-2024	PF	Paddy-Pulse based cropping system	1	0	0	0	20	10	30	30
May-2024	PF	Paddy-Wheat based cropping system	1	0	0	0	20	10	30	30
June-2024	PF	Paddy-Pulse based cropping system(2)	1	0	0	0	40	20	60	60
June-2024	PF	Integrated Nutrient Management in Oilseeds/Pulses	1	0	0	0	20	10	30	30
June-2024	PF	Integrated Nutrient Management in Paddy	1	0	0	0	20	10	30	30
July-2024	PF	Seed Production in Cereal crops	1	0	0	0	20	10	30	30
August-2024	PF	Sugarcane based cropping system	1	0	0	0	20	10	30	30
August.-2024	PF	Productivity enhancement in field crops	1	0	0	0	20	10	30	30
Sept-2024	PF	Integrated Farming in Crops	1	0	0	0	20	10	30	30
October-2024	PF	Weed management in field crops	1	0	0	0	20	10	30	30
October-2024	PF	Soil Health Management by using organic inputs	1	0	0	0	20	10	30	30
Nov-2024	PF	Production & Use of organic inputs	1	0	0	0	20	10	30	30
December-2024	PF	Integrated Nutrient Management in Oilseeds/Pulses	1	0	0	0	20	10	30	30
Horticulture										
June-2024	PF	Protective cultivation (Green Houses, Shade Net etc.) of cucurbits	1	0	0	0	20	10	30	30
July-2024	PF	Cultivation of mango	1	0	0	0	20	10	30	30
August-2024	PF	Cultivation of papaya	1	0	0	0	20	10	30	30
August-2024	PF	Micro irrigation systems of banana	1	0	0	0	20	10	30	30
Sep-2024	PF	Training and Pruning of mango orchard	1	0	0	0	20	10	30	30
Sep-2024	PF	Plant propagation techniques of fruit crops	1	0	0	0	20	10	30	30
Octo-2024	PF	Management of young plants/orchards of mango	1	0	0	0	20	10	30	30
Dec.-2024	PF	Production technology of tuber crop	1	0	0	0	20	10	30	30

Live Stock Production.										
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Home Science										
Jan.-2024	FW/PF	Value addition in spices and condiments	1	0	0	0	0	30	30	30
Jan.-2024	FW/PF	Value addition in fruits and vegetables	1	0	0	0	0	30	30	30
Feb.-2024	FW/PF	Value addition in fruits and vegetables	1	0	0	0	0	30	30	30
April-2024	FW/PF	Importance of millet in diet and its value-added products	1	0	0	0	0	30	30	30
May-2024	FW/PF	Health and nutrition benefits of millets	1	0	0	0	0	30	30	30
June-2024	FW/PF	Household food security through kitchen gardening (2)	1	0	0	0	0	60	60	60
July-2024	FW/PF	Nutrition management in mother and children	1	0	0	0	0	30	30	30
Sept-2024	FW/PF	Balance diet from locally available food materials	1	0	0	0	0	30	30	30
Octo.-2024	FW/PF	Drudgery reduction technologies for farm women	1	0	0	0	0	30	30	30
Octo.-2024	FW/PF	Drudgery reduction technologies for farm women	1	0	0	0	0	30	30	30
Nov.-2024	FW/PF	Drudgery reduction technologies for farm women	1	0	0	0	0	30	30	30
Plant Protection										
March-2024	FW/PF	Plant protection in medicinal and aromatic crops	1	0	0	0	25	5	30	30
March-2024	FW/PF	Biological control of insect pest and diseases	1	25	5	30	0	0	0	30
June-2024	FW/PF	Integrated pest & disease management in paddy	1	25	5	30	0	0	0	30
July-2024	FW/PF	Integrated pest & disease management in paddy	1	0	0	0	25	5	30	30
August-2024	FW/PF	Integrated pest & disease management in vegetable crops (2)	1	0	0	0	50	10	60	60
September-2024	FW/PF	Integrated pest & disease management in sugarcane	1	0	0	0	25	5	30	30
October-2024	FW/PF	Integrated pest & disease management in field crops(2)	1	0	0	0	50	10	60	60
November-2024	FW/PF	Integrated pest & disease management in horticultural crops	1	25	5	30	0	0	0	30
December-2024	FW/PF	Integrated pest & disease management in mango	1	0	0	0	25	5	30	30

ii) Vocational training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title*	Month	Duration (days)	No. of Participants			SC/ST participants			G.Total
					M	F	T	M	F	T	
Organic farming	Organic inputs	Production of organic inputs	July-2024	5	0	0	0	10	10	20	20
Mushroom	Mushroom cultivation	Scientific cultivation of mushroom	August-2024	5	5	5	10	5	5	10	20
Mushroom	Mushroom cultivation	Scientific cultivation of mushroom	Nov-2024	5	0	0	0	5	15	20	20
Fruits & Vegetables	Value addition	Value addition in fruits and vegetables	Nov-2024	5	0	0	0	0	20	20	20
Vegetables	Nursery Management of Horticulture crops	Nursery Management of vegetables crops	Dec-2024	5	0	0	0	10	10	20	20

iii) Training programme for extension functionaries

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			Grand Total
				M	F	T	M	F	T	
February-2024	NGOs	In-service training for field workers of NGOs	1	15	5	20	5	5	10	30
February-2024	Employee	In-service training on millets	1	25	5	30	0	0	0	30
July-2024	Gram sevak	Productivity enhancement in field crops	1	20	00	20	10	00	10	30
July-2024	Sugar factories staff	Integrated pest and disease management in sugarcane	1	30	0	30	0	0	0	30
Sep-2024	Anganwadi Workers	Health and nutrition management in Women & Children	1	00	00	00	0	30	30	30
Nov-2024	NGOs/ATMA	Nursery management	1	20	00	20	10	00	10	30

iv) Sponsored programmes:

Discipline	Sponsoring agency	Clientele	Title of the training programme	No. of course	No. of participants			Number of SC/ST			Grand Total
					M	F	T	M	F	T	
a) Sponsored training programme											
Crop Production	NGOs/ATMA	PF	Scientific cultivation of Paddy	1	20	10	30	0	0	0	30
Crop Production	NGOs/ATMA	PF	Integrated Nutrient Management in Sugarcane	1	0	0	0	20	10	30	30
Crop Production	NGOs/ATMA	PF	Scientific cultivation of Green gram	1	0	0	0	20	10	30	30
Plant Protection	ATMA	PF	Plant protection in natural farming	1	0	0	0	10	20	30	30
Plant Protection	NGOs/ATMA	PF	Integrated pest & disease management in field crops	1	20	10	30	0	0	0	30

Plant Protection	NGOs/ATMA	PF	Integrated pest & disease management in horticultural crops	1	0	0	0	20	10	30	30
Home Science	NGOs/ATMA	FW	Importance of fruits and vegetable in daily diet	1	0	25	25	0	0	0	25
Home Science	NGOs/ATMA	FW	Health benefits of small millets	1	0	0	0	0	25	25	25
Home Science	NGOs/ATMA	FW	Value addition in millets	1	0	0	0	0	25	25	25
Horticulture	NGOs/ATMA	PF	Nursery management in vegetable crops	1	20	10	30	0	0	0	30
Horticulture	NGOs/ATMA	PF	Hi-tech cultivation of vegetable crops	1	0	0	0	20	10	30	30
Horticulture	NGOs/ATMA	PF	Urban gardening	1	20	10	30	0	0	0	30
			Total	**12**	**80**	**65**	**145**	**90**	**110**	**200**	**345**
b) Sponsored research programme											
			Total	**--**	**00**	**00**	**00**	**00**	**00**	**00**	**00**
c) Any special programmes											
			Total	**--**	**00**	**00**	**00**	**00**	**00**	**00**	**00**

Annexure - II

Details of Budget Estimate (2024-25) based on proposed action plan

Sr. No.	Particulars	BE 2024-25 proposed (Rs. In lakh)
25.1	**Recurring Contingencies**	
25.1.1	**Pay & Allowances**	**155.00**
25.1.2	**Traveling allowances**	**2.00**
25.1.3	**Contingencies**	**19.00**
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	
B	POL, repair of vehicles, tractor and equipments	
C	Meals/refreshment for trainees (ceiling upto Rs.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	
H	Maintenance of buildings	
I	Establishment of Soil, Plant & Water Testing Laboratory	
J	Library	
25.1	**TOTAL Recurring Contingencies**	**176.00**
25.2	**Non-Recurring Contingencies**	
25.2.1	**Works**	
25.2.2	**Equipments including SWTL & Furniture**	**7.00**
25.2.3	**Vehicle** (**Four wheeler**/**Two wheeler**, please specify)	
25.2.4	**Library** (Purchase of assets like books & journals)	
25.2	**TOTAL Non-Recurring Contingencies**	
25.3	**REVOLVING FUND**	**14.21**
25.4	**GRAND TOTAL**	**197.21**