ICAR-ATARI, Pune
DETAILS OF ANNUAL PROGRESS REPORT OF KVKs DURING 2024
(January 2024 to December 2024)

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail	Website address
	Office	FAX		
Krishi Vigyan Kendra Navsari Agricultural University Panas Road, Athwa Farm, Surat	0261 2655565	--	kvksurat@nau.in	www.nau.in

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

Address	Telephone		E mail	Website address
	Office	FAX		
Director of Extension Education Navsari Agricultural University Navsari	(02637) 282026	(02637) 282706	dee@nau.in	www.nau.in

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

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. J. H. Rathod	0261 2655565	8128686720	jhrathod@nau.in

1.4. Date and Year of sanction:

1.5. Staff Position (as on December, 2024)

S.N.	Sanctioned post	Name of the incumbent	Mobile No.	Discipline	If Permanent, Please indicate			If Temporary, pl. indicate the consolidated amount paid (Rs./month)
					Current Pay Band	Current Grade Pay	Date of joining	
1.	Senior Scientist and Head	Dr. J. H. Rathod	8128686720	Entomology	131400-217100	--	16.11.16	Temporary (285969)
2.	Subject Matter Specialist	Dr. R. K. Patel	9979892927	Crop Protection	68900-205500	--	01.02.19	Temporary (154986)
3.	Subject Matter Specialist	--		Animal Husbandry	Vacant	--		--
4.	Subject Matter Specialist	Mr. S. J. Trivedi	9429018082	Agronomy	68900-205500	--	01.06.18	Temporary (162220)
5.	Subject Matter Specialist	Smt. B. B. Panchal	9662431848	Horticulture	57700-182400	--	20.01.17	Temporary (107620)
6.	Subject Matter Specialist	Smt. G. J. Bhimani	8511178903	Home Science	68900-205500	--	05.02.16	Temporary (150504)
7.	Subject Matter Specialist	--	--	Extension	Vacant	--	--	--
8.	Programme Assistant	Mr. Y. D. Patel	9586383403	--	39900-126600	--	10.08.15	Temporary (85100)
9.	Computer Programmer	Mr. C. G. Lad	9979393220	--	44900-142400	--	10.08.15	Temporary (80790)
10.	Farm Manager	Mr. A. T. Patel	9687614098	--	39900-126600	--	12.07.12	Temporary (78420)

11.	Accountant/Superintendent	Mrs. J. D. Patel	9662500670	--	25500-81100	--	01.07.17	Temporary (47020)
12.	Stenographer	Vacant	--	--	--	--	--	--
13.	Driver 1	Vacant	--	--	--	--	--	--
14.	Driver 2	Vacant	--	--	--	--	--	--
15.	Supporting staff 1	Vacant	--	--	--	--	--	--
16.	Supporting staff 2	Vacant	--	--	--	--	--	--

1.6. Total land with KVK (in ha):

S. No.	Item	Area (ha)
1	Under Buildings	1.73
2.	Under Démonstration Unit	1.00
3.	Under Crops	10.80
4.	Horticulture	0.75
5.	Pond	--
6.	Others if any (Specify)	--

1.7. Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Year	Plinth area (Sq. m)	Expenditure (Rs.)	Starting year	Plinth area (Sq. m)	Status of construction
1.	Administrative Building	ICAR	2023	796.72	206.16 --	--	--	--
2.	Farmers Hostel	--		--		--	--	--
3.	Staff Quarters	--	--	--	--	--	--	--
4.	Fencing	--	--	--	--	--	--	--
5	Rain Water harvesting system	--	--	--	--	--	--	--
6	Threshing floor	--	--	--	--	--	--	--
7	Farm godown	--	--	--	--	--	--	--
8	Soil and water testing lab	--	--	--	--	--	--	--
9	Mini soil testing Kit	--	--	--	--	--	--	--
10	Sell Contour	--	--	--	--	--	--	--
11	Demo unit	--	--	--	--	--	--	--
i								
ii								
12	ICT lab	--	--	--	--	--	--	--
13	Solar Panel	--	--	--	--	--	--	--
14	counter seal	--	--	--	--	--	--	--
	Other pl mention	--	--	--	--	--	--	--

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Running	Present status
Jeep (Tata)	2012	599999	290288	Not Working
Tractor	2012	549900	2180 (h) 541(New)	Working
Jeep (Mahidra)	2023	900000	24144(km)	Working

C) Equipment & 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
MridaParikshak Soil Testing minilab-kit	2016-17	86000	Working
A/C-2	2016-17	80000	Working
Tractor mounted sprayer	2018-19	13806	Working
Brush cutter	2018-19	24632	Working

1.8. Details of SAC meeting conducted in the year:

The Twelfth Scientific Advisory Committee Meeting of Krishi Vigyan Kendra, NAU, Surat was held at KVK, Surat on 2nd March, 2024 to review the progress made by KVK during last year (01-01-2023 to 31-12-2023) and to discuss the future action plan for the next year (January-2024 to December-2024). The meeting was chaired by Dr. Z. P. Patel, Hon'ble Vice Chancellor, Navsari Agricultural University, Navsari. Dr. N. M. Chauhan, Director of Extension Education, NAU, Navsari, Mr. N. G. Gamit, DDA(T) & PD, ATMA, Surat, Deputy Director of Horticulture and Animal Husbandry, Surat, Research Scientist and Head of the Department of Navsari Agricultural University, Navsari, Progressive farmers, Representative of NGOs, Progressive women farmers of SHG *etc.*, graced the meeting. Dr. J. H. Rathod, Member Secretary & Senior Scientist & Head, Krishi Vigyan Kendra, Surat welcomed all the dignitaries, committee members, farmers and other invitees. He presented overall activities and achievements made by the KVK, Surat during the mentioned year. Activities done by KVK Surat were appreciated by the house and congratulated the Senior Scientist and Head and his team for addressing the key issues as per the need of the farmers of Surat district. The action plan for the next year was also presented before the house and it was approved by the house.

Dr. N. M. Chauhan, Director of Extension Education, NAU, Navsari congratulated team of KVK for good work done during the last year and gave suggestions to give more emphasis on natural farming and organize the awareness programme on it. He also appreciated the collaboration of Krishi Vigyan Kendra, Surat with other line departments.

Dr. Z. P. Patel, Hon'ble Vice Chancellor appreciated the activities of Krishi Vigyan Kendra, Surat. He urged Scientist of KVK to disseminate various technologies of Agricultural University up to the last interiors villages to the farmers of Surat district. He also suggested to give knowledge to farmers about the usefulness of biochar for enhancing the organic carbon and ultimately increase soil fertility.

12.1 Approval of the minutes of eleventh Scientific Advisory Committee.

The action taken report of the minutes of eleventh SAC meeting (Held on Dt.11-01-2023) was presented in the house and it was approved by the Scientific Advisory Committee.

12.2. Progress made by KVK during 01-01-2023 to 31-12-2023.

Senior Scientist and Head of KVK, NAU presented the report on progress made by KVK for the period of 01-01-2023 to 31-12-2023. The committee was satisfied with the activities and achievements made by the KVK.

12.3 Action plan for the period of January- 2024 to December-2024.

Discussion was made on the Action plan for the period of January 2024 to December 2024 which was approved by the house. However, few suggestions were made by the house to strengthen the action plan.

12.3.1	Widely disseminate the technologies and products of Navsari Agricultural University, Navsari in the farming community.
12.3.2	Wide publicity of the Brinjal graft prepared from the robotic graft machine by Navsari Agricultural University, Navsari in the farming community.
12.3.3	To promote the awareness and maintenance about the importance of the soil health, soil organic matter and organic carbon in the farming community.
12.3.4	Prepare the leaflets of bio-charcoal/biochar and give wide publicity through KVK activities.
12.3.5	Give the information about agro eco-tourism in the farming and urban community.
12.3.6	Conduct the training programmes for pest-diseases management in sugarcane.
12.3.7	Conduct the demonstration of cotton GN Cot.-44 in collaboration with MCRS, Surat
12.3.8	Conduct the certificate course training programme on hydroponics and vertical farming.
12.3.9	Conduct the demonstration of Fodder Sorghum in collaboration with MSRS, Surat
12.3.10	Try to avail Inputs for terrace gardening from KVK, Surat.

The meeting was ended with vote of thanks by Dr. J. H. Rathod, Senior Scientist and Head, KVK, Surat.

Member Secretary &
Senior Scientist and Head
Krishi Vigyan Kendra, Athwa Farm, Surat

Director of Extension Education
Navsari Agricultural University Navsari

Chairman SAC and Vice – Chancellor
Navsari Agricultural University, Navsari

Following members and invitees were remained present in 12th Scientific Advisory Committee meeting.

1	Dr. Z. P. Patel	Hon'ble Vice Chancellor, NAU, Navsari	Chairman
2	Dr. N. M. Chauhan	Director of Extension Education, NAU, Navsari	Member
3	Mr. S. B. Gamit	District Agriculture of Officer, Surat	Member
4	Mr. N. G. Gamit	Dy. Director of Agriculture, Surat & PD, ATMA, Surat	Member
5	Dr. H. M. Viradia	Professor & Head, Dept. of Agronomy, NMCA, Navsari	Member
6	Dr. S. J. Patil	Professor & Head, Department of Horticulture, NMCA, NAU, Navsari	Member
7	Dr. J. K. Raval	Asst. Research Scientist, LRS, NAU, Navsari	Member
8	Mrs. Kuntal Surati	DDM, NABARD, Surat	Member
9	Mr. K. D. Patel	Representative, Horticulture Officer, DDH, Surat	Member
10	Miss Bindra Patel	Representative, Deputy Director of Fisheries, Surat	Member
11	Mr. V. I. Patel	Representative, JDA (Extension), Surat	Member
12	Mr. Ramsingbhai Chaudhary	Progressive Farmer- Sahkari Mandli	Member
13	Mrs. Sharmilaben H. Chaudhary	Progressive Women Farmer (SHG)	Member
14	Mr. N. M. Barot	Representative, WALMI, Surat	Member
15	Mr. Natubhai Boricha	Integrated Rural Development Trust, Bardoli	Special Invitee
16	Ms. Arati Vagh	Integrated Rural Development Trust, Bardoli	Special Invitee
17	Mr. Aditya Tandel	KVSVS, Hajira, Surat	Special Invitee
18	Mr. Kiritbhai R. Patel	Progressive Farmer, Olpad, Surat	Member
19	Mr. Sanket Suratvala	Terrace gardener, Surat	Special Invitee
20	Mr. Subhas Surti	Terrace gardener, Surat	Special Invitee
21	Dr. M. C. Patel	Research Scientist (Cotton), Main Cotton Research Station, NAU, Surat	Special Invitee
22	Dr. B. K. Davda	Research Scientist (Sorghum), Main Sorghum Research Station, NAU, Surat	Special Invitee
23	Dr. Sanjay Jha	Principal(I/c), ASPEE bio-tech. College, Surat	Special Invitee
24	Dr. C. J. Patel	Associate Professor, ASPEE bio-tech. College, Surat	Member
25	Dr. J. H. Rathod	Senior Scientist and Head, KVK, Surat	Member Secretary
26	All 3 Scientists, KVK, Surat		

2. DETAILS OF DISTRICT / JURISDICTION AREA OF KVK

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

S. No	Farming system/enterprise
1	Crop production
2	Crop production and Horticulture
3	Crop production and Livestock
4	Crop production, Horticulture and Livestock

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

a) Soil type

Taluka (AES)	Soil texture	Rainfall (mm)	Crops	Features
(AES-1) Mandvi (30%), Mangrol (40%), Umarpada	Hilly and highly undulating fine texture, highly erosive	< 1100	Paddy, Maize, Cotton, Sorghum, Pulses	Highly erosive Shallow to medium in depth Poor permeability Low to medium N & P content
(AES-2) Bardoli, Choryasi (75%), Kamrej, Palasana, Surat and Mahuva	Leveled, deep, fine textured	> 1450	Sugarcane, Paddy, Sorghum, Pulses, Orchards	Poor drainage Water logging Very poor permeability Poor soil physical condition Low to medium in N & P content

(AES-3) Mandvi (70%), Mangrol (60%), Olpad (70%)	Deep to medium black	1000 – 1250	Sorghum, Pulses, Paddy, Cotton, Oil Seeds	Moderate to severe erosive Poor soil fertility Poor irrigation facility
(AES-4) Choryasi (25%), Olpad (30%)	Coastal plain, deep, fine texture, salt affected	900-1000	Paddy - Cotton, Sorghum, Pulses, Wheat	High salt accumulation Poor soil physical condition High water table Water logging condition

a) Topography

S. 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

S. No	Soil type	Characteristics	Area in ha
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 area of jurisdiction of KVK (2024)

2.4.1 Field Crops cultivated in the district

S. No	Crop	Area (ha)	Production (MT.)	Productivity (Qt./ha)
A. Food grains				
1	Paddy	43232	111366	2576
2	Wheat	4290	107708	2496
3	Jowar	9058	10788	1191
4	Bajra	1	2	1690
5	Maize	2321	5153	2220
6	Ragi	1	1	900
7	Other Kharif Cereals	18	11	599
	Total Cereal	**58921**	**138028**	**2343**
8	Tur(Red Gram)	8999	11627	1292
9	Udad	831	765	921
10	Mung	476	234	491
11	Math	13	7	500
12	Gram	1244	1928	1550
13	Other Pulses	379	264	697
14	Indian Bean	0	0	0
15	Cow Pea	0	0	0
	Total Pulses	**11942**	**14825**	**1241**
	Total Food Grain	**70863**	**152853**	**2157**
B. Oil seeds				
16	Groundnut	376	717	1907
17	Castor Seed	56	110	1958
18	Sesame	26	9	334
19	Rape Seed & Mustard Seed	10	19	1900
20	Soybean	9183	11791	1284
21	Other Rabi Oil Seeds	84	100	1186
	Total Oilseeds	**9735**	**12745**	**1309**
C. Cash crops, Vegetables, Spices and Other				
22	Cotton	5620	21654	655
23	Potato	0	0	0
24	Sugarcane	83955	6656036	79281
25	Tobacco	0	0	0
26	Guar Seeds	28	19	695
27	Chilli (Dry)	0	0	0
28	Fennel	0	0	0
29	Garlic	72	530	7358
30	Onion	496	14136	28501
31	Isabgul	0	0	0
32	Coriander Seed	54	53	985
33	Cumin	0	0	0
34	Banana	1996	158431	79374

Source: District Agriculture Department, Sura

2.4.2 Fruit crops cultivated in the district

Crop	Area (Ha.)	Production (MT)	Productivity (MT)
Mango	10239	62970	6.15
Sapota	980	10084	10.29
Ber	10.00	76.00	7.60
Banana	2334	159366	68.28
Guava	117.00	1731.93	14.80
Pomegranate	4.00	21.00	5.25
Papaya	192.00	11445.02	59.61
Custard Apple	9.00	68.00	7.56

Cashew Nut	20.00	16.00	0.80
Coconut	135.00	1072.04	7.94
Other Fruits	165.00	1278.98	7.75
Total	**14205**	**248129**	**196.03**

Source: DDH, Surat

2.4.3 Vegetable Crops in the district

Crop	Area (Ha.)	Production (MT)	Productivity(MT)
Brinjal	5489	110877.72	20.20
Okra	16445	235164.01	14.30
Cabbage	787	15873.88	20.17
Tomato	1061	21665.94	20.42
Cluster bean	2343	19329.93	8.25
Cow Pea	1705	21277.6	12.48
Cucurbitaceae Vegetables	9492	141792	14.94
Other Vegetables	6092.00	101567.44	16.67
Total (Major Crops)	**43414**	**667548.5**	**127.43**

Source: DDH, Surat

Area and Production of other Vegetable Crops in the district

Crop	Area (Ha.)	Production (MT)	Productivity (MT)
Greater Yam	253	5892.02	23.29
Sugar beet	172	4233.00	24.61
Carrot	163	2629.04	16.13
Sweet Potato	254	4790.076	18.86
Spinach	400	6548.09	16.37
Radish	482	8527.02	17.69
Amaranthus	534	5575.05	10.44
Moringa	147	1799.08	12.24
Capsicum	787	12317.00	15.65
Fenugreek	493	5798.00	11.76
pea	80	984.02	12.30
Elephant Foot Yam	755	13016.06	17.24
Green Chilli	1572	29458.99	18.74
Total	**6092**	**101567.4**	**215.32**

Source: DDH, Surat

2.4.4 Flower Crops in the district

Crop	Area (Ha.)	Production (MT)	Productivity (MT)
Rose	48.00	450	9.38
Marigold	211	2121	10.05
Jasmine (Mogra)	8	61	7.63
Lily	40	405	10.13
Others	61.00	544.07	8.92
Total	**368**	**3581.07**	**46.11**

Source: DDH, Surat

2.4.5 Spices Crops in the district

Crop	Area (Ha.)	Production (MT)	Productivity (MT)
Ginger	89	1594.04	17.91
Dry Chilli	116	179.04	1.54
Turmeric	340	7389.96	21.74
Fenugreek	114	221	1.94
Ajwain	8	8	1.00
Total	**667**	**9392.18**	**44.13**

Source: DDH, Surat

2.5. Weather data (2025)

Month	Normal RF(mm)	Normal Rainy days (number)	Temperature (^{0} C)		Relative Humidity (%)	
			Maximum	Minimum	Maximum	Minimum
January-2025	0	0	11.7	33.7	41	71
February-2025	0	0	16.7	36.4	20	82
March-2025	4	1	19.8	38.4	31	83
April-2025	12.5	2	22.1	39.4	30	85
May-2025	0	0	24.8	42.1	48	89
June-2025	212	9	25.3	38.9	63	90
July-2025	491	25	25.1	33.7	87	100
August-2025	50.5	6	25.2	33.9	86	100
September-2025	282.5	13	24.4	38.2	79	97
October-2025	0	0	22	38.4	36	59
November-2025	88	1	17.9	36.5	27	43
December-2025	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	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 the block	Name of the village	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	**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

			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 anestrus 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.	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 anestrus, Lack of awareness about Feeds and fodder management **6.** Lack of knowledge of small-scale agricultural base enterprises, value addition etc.	**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.

			7. Drudgery reduction through improved hand tools.	
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 anestrus 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 **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, 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.**Popularize eco-friendly crop production with special reference to IPDM & INM. **5.** Increasing milk production by dissemination of latest

			High incidence of wilt and parval vine borer in pointed gourd. **5.** Low milk productivity, High calf mortality Problem of anestrus 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.	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 High incidence of wilt and parval vine borer in pointed gourd. **5.** Low milk productivity High calf mortality Problem of anestrus Lack of awareness about Feeds and fodder management **6.** Lack of knowledge of small scale agricultural base enterprises, value addition etc.	**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.
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	**1.** Increase productivity of major crops e.g. sugarcane **2.** Dissemination of production technology of fruits and vegetables and their post-harvest

			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	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 **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 anestrus Lack of awareness about Feeds and fodder management **6.** Lack of knowledge of small-scale agricultural base enterprises, value addition etc.	**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.
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	**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

			their management and nutrient management in banana 5. Lack of knowledge of small-scale agricultural base enterprises, value addition etc.	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.
Palsana	1. Kanav 2. Amalsadi	Paddy, Pointed gourd, Banana, Vegetables, Papaya 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 ACHIEVEMENTS

3.1. A. Details of target and achievements of mandatory activities

OFT				FLD			
1				2			
Number of OFTs		Number of farmers		Number of FLDs		Number of farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
6	4	40	30	152.00	249.5	638	924

Training				Extension Programmes			
3				4			
Number of Courses		Number of Participants		Number of Programmes		Number of participants	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
89	87	2505	3458	1031	2286	15345	55881

Seed Production (Qtl.)		Planting materials (Nos.)	
5		6	
Target	Achievement	Target	Achievement
1080	422.25	50000	0

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

3.1. B. Operational areas details during 2024

S. N.	Major crops & enterprises being practiced in cluster of villages	Prioritized problems in these crops/ enterprise	Extent of area (ha/No.) affected by the problem in the district	Name of Cluster Villages identified for interventions	Interventions (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	--	Umra Vasrai Machhisadada 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	--	Amba Parvat Uteva Titoi Gamtalav Khurd	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	--	Kadvali Kadavidadra Bilvan Khotarampura Umarkhadi	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	--	Balethi Mandan Ghodbar Boriya 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	--	Admor Kuvad Saras Pinrat	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	--	Karjan Choryasi Ghala Bhairav	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 agricultural based enterprises	--	Balda Rajvad Afva Madhi	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 Bhatlai Budia Vasava	OFT, FLD, Training, extension activity
9	Paddy, Pointed gourd, Banana, Vegetables, Papaya Crop production-Livestock	The productivity of crop is very low due to lack of technical knowhow regarding its scientific cultivation	--	Kanav Amalsadi	OFT, FLD, Training, extension activity

* Support with problem-cause and interventions diagram

3.2. Technology Assessment (Kharif 2024, Rabi 2023-24, Summer 2024)

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	other	Total
Integrated Nutrient Management	--	--	--	--	--	--	--	--	--	--	--
Varietal Evaluation	1	1	--	--	1	--	--	--	1	--	4
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	--	--	--	--	--	--	--	--	--	--	--
Other (specify)	--	--	--	--	--	--	--	--	--	--	--
Total	2	1	--	--	2	--	--	--	1	--	6

A2. Abstract on the number of technologies assessed in respect of livestock enterprises:

Thematic areas	Cattle	Poultry	Piggery	Rabbitry	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

B.1. Technologies Assessed under various Crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trial covering all the Technological Options)
Varietal Evaluation	Sesame	Assessment of sesame variety for summer cultivation	3	10	0.40 ha
	Paddy	Assessment of Paddy varieties for yield	3	10	0.50 ha
Integrated Pest Management	Okra	Management of shoot and fruit borer in okra	3	5	0.30 ha
	Paddy	Management of yellow stem borer in paddy	2	5	0.30 ha
Total			11	30	1.5 ha

B. 2. Technologies assessed under Livestock & fishery assessment: Nil

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 under other enterprises: Nil

Name of Enterprises	Name of the technology assessed	No. of trials	No. of farmers
Mushroom	-	-	-
Apiary	-	-	-
Vermicompost	-	-	-
Tailoring	-	-	-
Nutrition Garden	-	-	-

Name of Enterprises	Name of the technology assessed	No. of trials	No. of farmers
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 under Women empowerment assessment: Nil

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. 1. Results of Technologies Assessed

OFT 1. Assessment of sesame variety for summer cultivation (*Summer*-2024)

1	Title	Assessment of sesame variety for summer cultivation
2	Background information	Farmers of Surat districts growing sesame in summer season are getting low yield due to use of local varieties. Therefore this OFT is planned with a view to make farmer aware about resistant variety having bold sized seed and high yield.
3	Prioritized problem	Low yield due to local varieties.
4	Technology Intervention	New Variety of Sesame
5	Treatments	T_1: Local Variety (Farmers practices) T_2: GT-3 T_3: GT-5
6	Source of Technology	JAU, Junagadh
7	Season	Summer: 2024
8	No. of farmers	10
9	Plot Area	1 acre/variey/farmer
10	Critical Inputs Require	Seeds
11	Cost of Critical Inputs	4600 Rs
12	Observations	Yield & B:C ratio

Results:

Technology Assessed	Source of Technology	Production (Yield: kg/ha)	Cost of Cultivation (Rs./ha)	Gross Income (Rs.)	Net Return (Profit) in Rs. / ha	BC Ratio
1	2	3	4	5	6	7
T_1: Farmers practice (Variety: Local)	Farmers practice	602	22500	51772	29272	2.3
T2 : GT-3	JAU, Junagadh	695	24000	59770	35770	2.5
T2 : GT-5	JAU, Junagadh	738	24000	63468	39468	2.6

OFT 2. Assessment of Paddy varieties for yield (*Kharif*-2024)

1	Title	Assessment of Paddy varieties for yield
2	Background information	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 characterisic ,recommended for surat district.
3	Prioritized problem	Low yield due to use of old variety
4	Technology Intervention	New Variety of Paddy
5	Treatments	**T_1:** Gurjari (1997)(Farmers practices) **T_2**: GNR-3 (2012) **T_3**: GR-17(Sardar) (2018)
6	Source of Technology	NAU, Navsari
7	Season	Kharif: 2024
8	No. of farmers	10
9	Plot Area	**0**.5 ha/variey/farmer
10	Critical Inputs Require	Seeds
11	Cost of Critical Inputs	12000 Rs
12	Observations	Yield, B:C ratio & Earliness

Technology Assessed	Source of Technology	Production (Yield: kg/ha)	Cost of Cultivation	Gross Income	Net Return (Profit) in Rs./ ha	BC Ratio

			(Rs./ha)	(Rs.)		
1	2	3	4	5	6	7
T_1: Farmers practice (Variety: Gurjari)	Farmers practice	5020	36464	115460	78996	3.2
T2 : GNR-3	NAU, Navsari	5773	36782	132779	95997	3.6
T2 : GNR- 17 (Sardar)	NAU, Navsari	5949	36782	136827	100045	3.7

OFT 3.: Management of shoot and fruit borer in okra

1	Title	:	Management of shoot and fruit borer in okra
2	Problem diagnose/defined	:	Injudicious and indiscriminate use of chemical insecticides for management of shoot and fruit borer in okra
3	Details of technologies selected for assessment /refinement	:	T_1: Spray *Bacillus thuringiensis* 1% WP @ 50 g or 1% AS @ 50 ml in 10 lit water at 15 days interval for three times from initiation of shoot and fruit borer (AAU, Anand) 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 (SDAU, Gujarat) T_3: 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
4	Source of technology	:	AAU, Anand, Gujarat 2020 and SDAU, Gujarat, 2021
5	Thematic area		IPM
6	Performance of the Technology with performance indicators		-
7	Final recommendation for micro level situation		Timely application of recommended insecticide for better management of shoot and fruit borer in okra
8	Season	:	Late *Kharif* 2024
9	Area	:	0.30 ha/farmer (Total area- 1.5 ha.)
10	No. of farmers	:	5
11	Observation to be recorded	:	➢ Shoot infestation (%) ➢ Fruit infestation (%) ➢ Yield ➢ B:C ratio

Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Okra	Irrigated	Injudicious and indiscriminate use of chemical insecticides for management of shoot and fruit borer in okra	Management of shoot and fruit borer in okra	5	T_1: Spray *Bacillus thuringiensis* 1% WP @ 50 g or 1% AS @ 50 ml in 10 lit water at 15 days interval for three times from initiation of shoot and fruit borer (AAU, Anand)	Shoot infestation (%)	5.80	Lower shoot and fruit infestation in T_2as well as good quality of okra fruits and higher production	Lower shoot and fruit infestation in T_2as compared to farmers practice. T_2 was recorded higher yield with higher B:C ratio than T_1 and T_3.	No	-
						Fruit infestation (%)	7.91				
						BC Ratio	4.545				
						Production(q/ha)	168.50				
					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 (SDAU, Gujarat)	Shoot infestation (%)	4.93				
						Fruit infestation (%)	4.34				
						BC Ratio	4.914				
						Production (q/ha)	182.17				
					T_3: 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	Shoot infestation (%)	7.13				
						Fruit infestation (%)	7.58				
						BC Ratio	4.521				
						Production (q/ha)	171.00				

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit/ha	B:C Ratio
13	14	15	16	17	18
Technology option 1	AAU, Anand, Gujarat	168.50	(q/ha)	368000	4.545
Technology option 2	SDAU, Gujarat	182.17	(q/ha)	406276	4.914
Technology option 3 (Farmers' practice)	-	171.00	(q/ha)	372900	4.521

OFT 4.: Management of yellow stem borer in paddy

1	Title	:	Management of yellow stem borer in paddy
2	Problem diagnose/defined	:	Infestation of yellow stem borer and lower yield in paddy
3	Details of technologies selected for assessment /refinement	:	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 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 (NAU, Navsari, Gujarat)
4	Source of technology	:	NAU, Navsari, Gujarat 2024
5	Thematic area		IPM
6	Performance of the Technology with performance indicators		-
7	Final recommendation for micro level situation		Root dipping of rice seedlings in insecticide and timely application of granular insecticide for better management of stem borer in paddy
8	Season	:	*Kharif* 2024
9	Area	:	0.30 ha/farmer (Total area- 1.5 ha.)
10	No. of farmers	:	5
11	Observation to be recorded	:	➢ Dead heart (%) ➢ White ear head (%) ➢ Yield ➢ B:C ratio

Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Paddy	Irrigated	Infestation of yellow stem borer and lower yield in paddy	Management of yellow stem borer in paddy	5	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	Dead heart (%)	9.60	Lower percentage of dead heart and white ear head in T_2 as well as higher yield of paddy	Lower infestation of stem borer as dead heart and white ear head in T_2as compared to farmers practice. T_2 was recorded higher yield of paddy with higher B:C ratio than T_1	No	-
						White ear head (%)	13.86				
						BC Ratio	1.744				
						Production (q/ha)	43.65				
					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 (NAU, Navsari, Gujarat)	Dead heart (%)	2.83				
						White ear head (%)	4.93				
						BC Ratio	2.074				
						Production (q/ha)	53.22				

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit/ha	B:C Ratio
13	14	15	16	17	18
Technology option 1 (Farmers' practice)	-	43.65	(q/ha)	38183	1.744
Technology option 2	NAU, Navsari, Gujarat	53.22	(q/ha)	56501	2.074

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 2024 and recommended for large scale adoption in the district

S. No	Crop/ Enterprise	Thematic Area*	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
					No. of villages	No. of farmers	Area in ha
Cereal crops							
1	Paddy (GNRH-2)	ICM	New Hybrid	FLDs	8	15	5
2	Paddy (GR-17-Sardar)	ICM	New variety	FLDs	1	10	5
3	Paddy (GR – 9-Lal Kada Gold)	ICM	New variety	FLDs	2	10	5
4	Paddy (GR – 24-Navsari Parimal)	ICM	New variety	FLDs	3	10	5
5	Paddy (GR – 18-Devli Kolam)	ICM	New variety	FLDs	3	10	5
6	Paddy (GR–16 Tapi)	ICM	New variety	FLDs	1	10	5
7	Sorghum (GNJ-1)	ICM	New variety	FLDs	4	12	5
8	Paddy	IPDM	IPDM	FLDs	1	10	4
Oilseed and Pulses crops							
9	Pigeonpea (GNP-2)	ICM	New variety	FLDs	4	12	5
10	Pigeonpea (GT-104)	ICM	New variety	FLDs	2	12	5
11	Pigeonpea (GT-105)	ICM	New variety	FLDs	2	12	5
12	Soybean (NRC-37)	ICM	New variety	FLDs	1	4	2
Fiber crops							
13	Cotton (G cot- Hy-10 Bt)	ICM	New variety	FLDs	1	10	4
Cash crops							
14	Sugarcane	IPDM	IPDM	FLDs	1	10	4
Horticulture crops							
15	Brinjal	INM	Bio-fertilizers, Novel Organic Liquid Nutrients	FLDs	1	10	4
16	Okra	INM	Bio-fertilizers, Novel Organic Liquid Nutrients	FLDs	1	10	4
17	Pointed gourd	INM	Bio-fertilizers, Novel Organic Liquid Nutrients	FLDs	1	10	4
18	Cluster bean	INM	Novel Organic	FLDs	1	10	2

			Liquid Nutrients				
19	Mango	INM	Novel Organic Liquid Nutrients	FLDs	1	10	--
20	Pointed gourd	ICM	New & high yielding variety	FLDs	1	10	4
21	Little gourd	ICM	New & high yielding variety	FLDs	1	10	4
22	Indian bean	ICM	New & high yielding variety	FLDs	1	10	4
23	Banana	IPDM	IPDM	FLDs	1	10	4
24	Brinjal	IPDM	IPDM	FLDs	1	10	4
25	Okra	IPDM	IPDM	FLDs	1	10	4
26	Mango	IPM	IPM	FLDs	2	10	4
Home Science							
27	Kitchen garden kit	Nutrition Management	Seed & Seedling	FLDs	5	100	1
28	Kitchen garden kit	Nutrition Management	Seed & Seedling	FLDs	2	50	0.5
29	30Twin Wheel hoe	Drudgery Reduction	Labour saving	FLDs	2	20	--
30	Rake for collecting garbage/ harvesting	Drudgery Reduction	Labour saving	FLDs	3	50	--
31	Stalk puller for uprooting crop stalk	Drudgery Reduction	Labour saving	FLDs	3	30	--
FLDs of Other Agency							
Crop production							
CFLD (NFSM) Oil seed							
1	Soybean (NRC-37)	ICM	New variety	FLDs	5	150	60
TSP (Mega seed project)							
2	Indian bean (GNIB-22)	ICM	New Variety	FLDs	2	30	10
Other FLDs by Sorghum Research Station- Dhamrod Surat							
3	Sorghum fodder	Improved variety	Cofs-31	FLDs	1	25	2.5
Adaptive Trials							
1	Paddy Devli Kolam	ICM	New variety	FLDs	4	90	45
2	Soybean NRC-37	ICM	New variety	FLDs	10	22	9
3	Paddy Different variety	ICM	New variety	FLDs	2	30	12
4	Pointed gourd	ICM	New variety	FLDs	1	1	0.05
5	Little gourd	ICM	New variety	FLDs	1	1	0.05

B. Details of FLDs implemented during 2024 **(Kharif 2024, Rabi 2023-24, Summer 2024)** (Information is to be furnished in the following **three tables** for **each category** i.e. **cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops**.)

S. N.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
KVK:2024										
Kharif-24										
Cereal crops										
1	Paddy (GNRH-2)	ICM	New Hybrid	*Kharif -24*	5	5	15	0	15	--
2	Paddy (GR-17-Sardar)	ICM	New variety	*Kharif -24*	5	5	10	0	10	--
3	Paddy (GR – 9-Lal Kada Gold)	ICM	New variety	*Kharif -24*	5	5	10	0	10	--
4	Paddy (GR – 24-Navsari Parimal)	ICM	New variety	*Kharif -24*	5	5	10	0	10	--
5	Paddy (GR – 18-Devli Kolam)	ICM	New variety	*Kharif -24*	5	5	10	0	10	--
6	Paddy (GR–16 Tapi)	ICM	New variety	*Kharif -24*	5	5	10	0	10	--
7	Sorghum (GNJ-1)	ICM	New variety	*Kharif -24*	5	5	12	0	12	--
8	Paddy	IPDM	IPDM	*Kharif -24*	4	4	10	0	10	--
Oilseed and Pulses crops										
9	Pigeonpea (GNP-2)	ICM	New variety	*Kharif -24*	5	5	4	8	12	--
10	Pigeonpea (GT-104)	ICM	New variety	*Kharif -24*	5	5	2	10	12	--
11	Pigeonpea (GT-105)	ICM	New variety	*Kharif -24*	5	5	2	10	12	--
12	Soybean (NRC-37)	ICM	New variety	*Kharif -24*	2	2	4	0	4	--
Fiber crops										
13	Cotton (G cot- Hy-10 Bt)	ICM	New variety	*Kharif -24*	4	4	10	0	10	--
Cash crops										
14	Sugarcane	IPDM	IPDM	*Rabi-23-24*	4	4	10	0	10	--
Horticulture crops										
15	Brinjal	INM	Bio-fertilizers, Novel Organic Liquid Nutrients	*Kharif-24*	4	4	0	10	10	--
16	Okra	INM	Bio-fertilizers, Novel Organic Liquid Nutrients	*Kharif-24*	4	4	0	10	10	--
17	Pointed gourd	INM	Bio-fertilizers, Novel Organic	*Kharif-24*	4	4	0	10	10	--

			Liquid Nutrients							
18	Cluster bean	INM	Novel Organic Liquid Nutrients	*Rabi-24*	2	2	10	0	10	--
19	Mango	INM	Novel Organic Liquid Nutrients	*Rabi-24*	--	--	10	0	10	--
20	Pointed gourd	ICM	New & high yielding variety	*Kharif-24*	4	4	10	0	10	--
21	Little gourd	ICM	New & high yielding variety	*Kharif-24*	4	4	10	0	10	--
22	Indian bean	ICM	New & high yielding variety	*Rabi-24*	4	4	10	0	10	--
23	Banana	IPDM	IPDM	*Kharif-24*	4	4	0	10	10	--
24	Brinjal	IPDM	IPDM	*Rabi-24*	4	4	10	0	10	--
25	Mango	IPDM	IPDM	*Rabi-24*	4	4	10	0	10	--
26	Okra	IPDM	IPDM	*Rabi-24*	4	4	10	0	10	--
Home Science										
27	Kitchen garden kit	Nutrition Management	Seeds & Novel	*Rabi-23*	1	1	25	25	50	--
28	Kitchen garden kit	Nutrition Management	Seeds & Novel	*kharif-24*	1	1	50	50	100	--
29	Twin Wheel hoe	Drudgery Reduction	Labour saving	*Rabi-23*	--	--	20	0	20	--
30	Rake for collecting garbage/ harvesting	Drudgery Reduction	Labour saving	*Rabi-23*	--	--	50	0	50	--
31	Stalk puller for uprooting crop stalk	Drudgery Reduction	Labour saving	*Rabi-23*	--	--	30	0	30	--
32	Kitchen garden kit	Nutrition Management	Seeds & Novel	*Rabi-24*	1	1	70	30	100	--
FLDs of Other Agency: 2024										
Crop production :										
CFLD(NFSM) Oil seed										
1	Soybean (NRC-37)	ICM	New variety	*Kharif*-24	60	60	150	0	150	--
TSP- Mega seed project										
2	Indian bean (GNIB-22)	ICM	New Variety	*Rabi-23-24*	10	10	30	0	30	--
Other FLDs by Sorghum Research Station-Dhamrod, Surat										
3	Sorghum fodder	Improved variety	Cofs-31	*Kharif-24*	--	--	25	0	25	--
				Total:	**179**	**179**	**649**	**173**	**822**	**--**
Adaptive Trials										
1	Paddy Devli	ICM	New variety	*Kharif -24*	45	45	90	0	90	--

	Kolam									
2	Paddy Different variety	ICM	New variety	*Kharif -24*	12	12	30	0	30	--
Oil seed										
3	Soybean NRC-37	ICM	New variety	*Kharif -24*	9	9	22	0	22	--
Horticulture crops										
4	Pointed gourd	ICM	New variety	*Kharif-24*	0.05	0.05	1	0	1	--
5	Little gourd	ICM	New variety	*Kharif-24*	0.05	0.05	1	0	1	--
Total:					**66.1**	**66.1**	**144**	**0**	**144**	--
Grand Total (KVK, Other Agency + Adaptive Trials):					**245.1**	**245.1**	**793**	**173**	**966**	--

Details of farming situation

Crop	**Season**	**Farming situation (RF/Irrigat**	**Soil type**	**Status of soil**			**Previous crop**	**Sowing date**	**Harvest date**	**Seasonal rainfall (mm)**	**No. of rainy days**
				N	**P**	**K**					
Paddy	*Kharif*	Partially Irrigated	Medium black	Low	Medium	High	Paddy	25-30/07/24	24-27/11/24	1124	54

Farmers' reactions on specific technologies

Sr.No	Crop	Technology	Feedback
1	Paddy	GNRH -2	1.Medium slender grain rice 2. It is moderately resistant against bacterial leaf blight, leaf blast, grain discoloration and sheath rot. 3. Tolerant to insect pest like BPH, WBPH, leaf folder and stem borer. 4 Suitable for rice growing areas of South Gujarat
2	Paddy	GR -17(Sardar)	1. Early maturing, Long bold grain 2. Moderately resistant against bacterial leaf blight, leaf blast, grain discoloration, sheath rot, WBPH and leaf folder.. 3. Suitable for transplanted rice growing areas.
3	Paddy	GNR -9 (Lal-Kada Gold)	1.Red Kernel 2.Bio-fortified variety
4	Paddy	GR – 24 (Navsari Parimal)	1.Long Slender 2.Early maturing 3.Non-Lodging
5	Paddy	GR-18(Devli Kolam)	1.Medium Slender 2.Medium Resistant to Pest & diseases 3.Early maturing & Non-lodging
6	Paddy	GR – 16(Tapi)	1.Early maturing upland rice variety 2.Long bold variety with good grain quality 3. Moderately resistant reaction against leaf blast and insect pest like stem borer and sheath mite. Suitable for upland rice growing areas.
7	Sorghum	GNJ-1	1.High yielding 2.Less incidence of smut, shoot borer and grain mould
8	Soybean	NRC-37	1.Moderate yield 2.Early maturing 3. Moderately Resistant to Pest & disease
9	Sesame	GT-3	1.Moderate yield 2. Moderately Resistant to Helicoverpa
10	Sesame	GT-5	1.High yield than GT-3 2. Moderately to high Resistant to Helicoverpa
10	Paddy	IPDM	Lower infestation of stem borer, leaf folder in paddy field; lower intensity of Bacterial Leaf Blight, blast, grain discoloration and other diseases, increase yield of paddy
11	Sugarcane	IPDM	Lower infestation of borers and sucking pests in sugarcane, less incidence of soil borne diseases, increase yield of sugarcane
12	Banana	IPDM	Less incidence of wilt, nematodes, less infestation of weevil in banana field, increase yield of banana
13	Pointed gourd	IPDM	Less incidence of soil borne and other diseases, less infestation of pests, improve quality and production of pointed gourd fruits
14	Brinjal	IPDM	Lower infestation of fruit & shoot borer and sucking pests in brinjal, decrease use of chemical fertilizers and pesticides; increase quality and yield of brinjal fruits
15	Okra	IPDM	Less infestation of insect pests, decrease use of chemical fertilizers and pesticides; increase in yield and quality of fruits in okra
16	Mango	IPDM	Less infestation of fruitfly and incidence of diseases, increase in yield and quality of mango fruits
17	Brinjal, okra, banana and pointed gourd.	Bio-fertilizers and Novel Organic Liquid Nutrients	With using bio-fertilizers and Novel Organic Liquid Nutrients which increase the yield & quality of fruit, decrease use of chemical fertilizers in brinjal, okra, banana and pointed gourd.
18	Mango and cluster	Novel Organic Liquid	Foliar application of Novel Organic Liquid Nutrients

	bean	Nutrients	reduce flower drop and increase fruit setting ratio in mango and cluster bean.
19	Indian bean	GNIB-22	Indian bean cv. GNIB-22 gave good result in terms of yield and quality as well as price compare to local cultivar.
20	Pointed gourd	GNPG-1	Pointed gourd cv. GNPG-1 gave more production than local variety.
21	Little gourd	GNLG-1	Little gourd cv. GNLG-1 gave More fruit setting than local cultivar and medium size fruit get high market demand than local cultivar.
22	Twin wheel hoe weeder, Rake for collecting garbage/harvesting and Stalk puller	Women drudgery reduction	Farm women like Twin wheel hoe weeder, Rake for collecting garbage/harvesting and Stalk puller because it avoids the bending/squatting posture that is generally adopted in traditional method of weeding/ collecting garbage/harvesting/ uprooting crop stalks
23	Kitchen garden	Nutrition management	Farm women are not applying any pesticides in kitchen garden so they get organic vegetables.

Extension and Training activities under FLD

Sl. No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	**Field days**				
	Paddy-GNR-24	1	10/10/2024	19	Uteva-Mandvi
	Paddy-GNR-18	1	10/10/2024	19	Uteva-Mandvi
	Paddy-GNR-9	1	10/10/2024	15	Uteva-Mandvi
	Soybean-NRC-37	1	10/10/2024	15	Uteva-Mandvi
	Soybean-NRC-37	1	10/10/2024	23	Zarni-Mandvi

2	**Trainings**										
		No.	**Others**			**Number of SC/ST**			**Total number of participants**		
			M	**F**	**Total**	**M**	**F**	**Total**	**M**	**F**	**Total**
	Crop Production	10	0	0	0	328	62	390	328	62	390
	Plant protection	0	0	0	0	0	0	0	0	0	0
	Horticulture	2	0	0	0	22	36	58	22	36	58
	Home Science	7	0	35	35	20	105	125	20	140	160
	Total	**19**	**0**	**35**	**35**	**370**	**203**	**573**	**370**	**238**	**608**

C. Performance of Frontline demonstrations

Frontline demonstrations on oilseed crops

Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										
Soybean (*Kharif*-2024)-*NFSM*	ICM	Improved seed	NRC-37	150	60	16.30	14.20	15.50	13.50	14.81	30750	74400	43650	2.42	29825	64800	34975	2.17
Soybean-NRC-37 (*Kharif-24)*	ICM	Improved seed	NRC-37	12	5	13.60	9.50	11.56	10.00	15 .60	30870	55488	24618	1.8	29925	48000	18075	1.6

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

Frontline demonstration on pulse crops

Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										
Pigeon pea- *(Kharif 2024)*	ICM	Improved seed	GNP-2	12	5	19.00	12.50	13.40	11.50	16.50	33264	101170	67906	3.0	30780	86825	56045	2.8
Pigeon pea- *(Kharif-2024)*	ICM	Improved seed	GT-104	12	5	21.30	15.75	18.89	15.70	20.30	32508	142620	110112	4.4	30780	118535	87755	3.9
Pigeon pea- *(Kharif-2024)*	ICM	Improved seed	GT-105	12	5	22.90	16.80	19.30	15.90	21.40	33048	145715	112667	4.4	31320	120045	88725	3.8

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

FLD on Other crops

Category & Crop	Thematic Area	Name of the technology	No. of Farmers	Area (ha)	Yield (q/ha)				% Change in Yield	Other Parameters		Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					Demo			Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
					High	Low	Average												
Cereals																			
Paddy																			
Paddy Hybrid (GNRH-2) (*Kharif-2024*)	ICM	Improved seed	15	5	67.50	43.80	49.35	41.40	19.20	-	-	36729	113505	76776	3.1	38955	95220	56265	2.4
Paddy (GR-17-Sardar) (*Kharif* - 2024)	ICM	Improved seed	10	5	62.40	48.60	53.68	44.00	22.00	-	-	36782	123464	86682	3.4	36464	101200	64736	2.8
Paddy (GR-9-Lal Kada Gold) (*Kharif* - 2024)	ICM	Improved seed	10	5	50.20	37.50	40.19	34.50	16.50	-	-	37524	96456	58932	2.6	36888	82800	45912	2.2
Paddy (GR-24-Navsari Parimal) (*Kharif* - 2024)	ICM	Improved seed	10	5	57.80	43.20	46.34	40.30	15.00	-	-	35616	111216	75600	3.1	35086	96720	61634	2.8
Paddy (GR-18-Devli Kolam *(Kharif* -	ICM	Improved seed	10	5	57.30	43.80	50.53	42.00	20.30	-	-	35616	121272	85656	3.4	35086	100800	65714	2.9

2024)																			
Paddy (GR-16-Tapi *(Kharif* - 2024)	ICM	Improved seed	10	5	26.80	21.50	24.21	20.80	16.40	-	-	24698	53262	28564	2.2	24698	45760	21062	1.9
Paddy (*Kharif-2024*)	IPDM	Novel Plus, bio pesticide, insecticide & fungicide	10	4	61.30	46.09	51.87	44.17	17.43	-	-	50200	106334	56133.5	2.12	48900	90548.5	41648.5	1.85
Sorghum																			
Sorghum (GNJ-1) *(Kharif* - 2024)	ICM	Improved seed	12	5	26.20	17.90	19.87	16.80	18.30	-	-	22050	67558	45508	3.1	20790	57120	36330	2.7
Vegetables																			
Brinjal	INM	Bio-fertilizers, Novel Organic Liquid Nutrients	10	4	191.01	151.42	161.63	146.69	10.18	-	-	61500	172192	110692	2.79987	65050	145928	80878	2.243
Okra	INM	Bio-fertilizers, Novel Organic Liquid Nutrients	10	4	189.69	163.11	171.26	159.36	7.47	-	-	54100	179823	125723	3.324	56900	167328	110428	2.941
Pointed gourd	INM	Bio-fertilizers, Novel Organic Liquid Nutrients	10	4	191.52	190.42	133.65	101.51	31.66	-	-	126100	173745	47645	1.378	119500	131963	12463	1.104
Cluster bean	INM	Novel Organic	10	2	142.28	120.51	125.74	112.91	11.36	-	-	61200	138314	77114	2.260	69500	124201	54701	1.787

		Liquid Nutrients																
Pointed gourd	ICM	New & high yielding variety	10	4	190.10	169.32	159.81	143.11	11.67	-	-	128000	207753	79753	1.623	120100	186043	65943	1.549
Little gourd	ICM	New & high yielding variety	10	4	221.11	182.31	215.24	182.41	18.00	-	-	61500	172192	110692	2.79987	65050	145928	80878	2.243
Indian bean	ICM	New & high yielding variety	10	4	59.25	41.25	46.51	34.56	34.58	-	-	37500	139530	102030	3.721	33650	103680	70030	3.081
Brinjal (*Rabi-2023*)	IPDM	Pheromone traps, lures, YST, Novel Plus, bio pesticides & insecticides	10	04	247.82	188.69	222.78	200.61	11.05	-	-	113900	534672	420772	4.69	111100	481464	370364	4.33
Okra (*Rabi-2023*/ Summer-2024)	IPDM	Pheromone traps, lures, YST, Novel Plus, bio pesticides & insecticides	10	04	186.96	145.22	165.56	149.65	10.63	-	-	97800	372510	274710	3.81	98500	336713	238213	3.42
Fruit crops																			
Mango	INM	Novel Organic Liquid Nutrients	10	-	81.62	58.38	63.58	56.16	13.21	-	-	51400	127160	75760	2.474	50900	112320	61420	2.207

Banana (*Kharif-2023*)	IPDM	Trichoderma, Novel Plus, Prime &bio pesticide	10	04	812.17	713.91	747.30	698.87	6.93	-	-	142200	965511.6	823312	6.79	140500	902940	762440	6.43
Mango (*Rabi-2023*)	IPDM	Fruit fly traps, lures, Novel Plus, Prime,bio pesticide	10	04	85.22	60.00	68.52	65.13	5.20	-	-	51700	342600	290900	6.63	50400	325650	275250	6.46
Commercial Crops																			
Cotton-G.Cot.Hy-10-Bt. *(Kharif-2024)*	ICM	Improved seed	10	4	25.40	18.40	24.32	20.00	21.60	-	-	51660	172672	121012	3.3	49770	142000	92230	2.9
Sugarcane (*Rabi-2023*)	IPDM	Novel Plus, Prime, bio pesticide, Trichogramma, insecticide	10	04	1312.51	812.51	1010.42	910.42	10.98	-	-	129000	313230.2	184230.2	2.43	125600	282230.2	156630.2	2.25
TSP – ICAR (Mega Seed)																			
Indian bean	ICM	Improved seed	GNIB-22	30	10	55.61	42.15	45.43	38.15	19.08	37500	136290	98790	3.634	33600	114450	80850	3.406	Indian bean

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

Frontline Demonstration on Nutri cereals

Crop	Thematic Area	Technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

FLD on Livestock: Nil

FLD on Fisheries: Nil

FLD on Other enterprises: Nil

FLD on Women Empowerment: Nil

FLD on Farm Implements and Machinery

Name of the implement	Crop	Technology demonstrated	No. of Farm women	Area (ha)	Major Parameter	Field observation (ha/man hour)		% change in major parameter	Labor reduction (man days) (man-h/ha)				Cost reduction (Rs./ha/day)	
									Harvesting		Weeding		Labour**	
						Demo	Check		Demo	Check	Demo	Check	Demo	Check
Twin wheel hoe weeder* (Rabi:2023)	Vege./ Pulses	Women drudgery reduction	20	-	-Field observation (ha/hr) -Labour requirement (Man hours/ha) -Cost of operation	0.018 ha (0.144 ha/day)	0.011 ha (0.088 ha/day)	63.63	-	-	56	91	1861	3045
Rake for collecting garbage/ harvesting** (Rabi:2023)	Dry matter of crops/ harvesting/ garbage	Women drudgery reduction	50	-	-Field observation -Drudgery parameters like physical hazards, muscle stress, fatigue	0.043 ha (0.344ha/day)	0.027 ha (0.216ha/day)	59.25	23	37	-	-	779	1240

Stalk puller*** (Rabi:2023)	Cotton/ Pigeon pea/ concerned crop	Women drudgery reduction	30	-	-Field observation -Drudgery parameters like physical hazards, muscle stress, fatigue	0.033 ha (0.264 ha/day)	0.020 ha (0.16 ha/day)	65.00	30	50	-	-	1005	1675

*Twin wheel hoe weeder is recommended by CIAE, Bhopal
** Rake for collecting garbage/ harvesting is recommended by CSKHPKV, Palampur
***Stalk puller is recommended by National Research Centre for Women in Agriculture Sub centre, CIAE, Bhopal
#Cost of operation is calculated as per university labour wages

FLD on Other Enterprise: Kitchen Gardening

Nutrition garden components	Thematic area	Area (sq mt)	No. of Farmer	No. of Units	Yield (Kg)- supply of vegetables, fruits, etc from KG in the year		% change in yield	Household size (number)		Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					Demonstration	Check*		Demo	Check	Gross Cost	Gross Return /Savings*	Net Return	BCR (R/C)	Gross Cost	Gross Return / Savings*	Net Return	BCR (R/C)
Seasonal vegetables seeds, Novel organic liquid nutrient (Rabi:2023)	Household food security by nutritional kitchen gardening	100	50	50	129	70	84.28	5	7	550	5160	4610	9.38	325	2000	1675	6.15
Seasonal vegetables seeds, Novel organic liquid nutrient (Kharif:2024)	Household food security by nutritional kitchen gardening	100	100	100	117	68	72.05	5	6	600	7020	6420	11.7	350	2200	1850	6.28

***check maybe family adopting different Nutrition garden model/ no adoption of Nutrition garden model**
Savings from produce of Nutrition garden used for home consumption

3.4. Training Programmes (Online programmes if any should be included under On Campus category)

Farmers' Training including sponsored training programmes (on campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management										
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management	1	0	0	0	22	25	47	22	25	47
Soil & water conservation										
Integrated nutrient management										
Production of organic inputs										
Others (pl. specify) Natural farming	2	0	0	0	1	62	63	1	62	63
Total	**3**	**0**	**0**	**0**	**23**	**87**	**110**	**23**	**87**	**110**
II Horticulture										
a) Vegetable Crops										
Production of low value and high value crops										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Others (pl specify) Urban farming	2	37	109	146	0	0	0	37	109	146
Total (a)	**2**	**37**	**109**	**146**	**0**	**0**	**0**	**37**	**109**	**146**
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										
Others (pl specify)										
Total (b)										
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Others (pl specify)										
Total (c)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (d)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (e)										
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (f)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl specify)										
Total (g)										
Grand Total (a to g)	**2**	**37**	**109**	**146**	**0**	**0**	**0**	**37**	**109**	**146**
III Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated Nutrient Management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing										
Others (pl specify)										
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
IV Livestock Production and Management										
Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management										

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Animal Nutrition Management										
Disease Management										
Feed & fodder technology										
Production of quality animal products										
Others (pl specify)										
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	3	0	75	75	0	0	0	0	75	75
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	1	0	25	25	0	0	0	0	25	25
Women empowerment										
Location specific drudgery reduction technologies										
Rural Crafts										
Women and child care										
Others (pl specify)										
Total	**4**	**0**	**100**	**100**	**0**	**0**	**0**	**0**	**100**	**100**
VI Agril. Engineering										
Farm Machinery and its maintenance										
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										
Others (pl specify)										
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
VII Plant Protection										
Integrated Pest Management	1	27	7	34	0	0	0	27	7	34
Integrated Disease Management										
Bio-control of pests and diseases										

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Production of bio control agents and bio pesticides										
Plant protection in medicinal and aromatic crops	1	0	0	0	92	8	100	92	8	100
Others (pl specify)										
Total	**2**	**27**	**7**	**34**	**92**	**8**	**100**	**119**	**15**	**134**
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										
Others (pl specify)										
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
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										
Mushroom Production										
Apiculture										
Others (pl specify)										
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
X CapacityBuilding and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
WTO and IPR issues										
Others (pl specify)										
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
GRAND TOTAL	**11**	**64**	**216**	**280**	**115**	**95**	**210**	**179**	**311**	**490**

Farmers' Training including sponsored training programmes (off campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management										
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/irrigation										
Seed production										
Nursery management	1	0	0	0	19	6	25	19	6	25
Integrated Crop Management	12	0	0	0	369	75	444	369	75	444
Soil & water conservation										
Integrated nutrient management										
Production of organic inputs										
Others (pl specify) Natural farming	8	80	40	120	96	107	203	176	147	323
Total	**21**	**80**	**40**	**120**	**484**	**188**	**672**	**564**	**228**	**792**
II Horticulture										
a) Vegetable Crops										
Production of low value and high value crops	2	0	0	0	22	36	58	22	36	58
Off-season vegetables										
Nursery raising	1	0	0	0	1	55	56	1	55	56
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation	2	2	36	38	38	16	54	40	52	92
Others (pl specify) Urban farming	1	0	0	0	13	41	54	13	41	54
Total (a)	**6**	**2**	**36**	**38**	**74**	**148**	**222**	**76**	**184**	**260**
b) Fruits										
Training and Pruning	1	40	4	44	0	0	0	40	4	44
Layout and Management of Orchards										
Cultivation of Fruit	1	25	9	34	0	0	0	25	9	34
Management of young plants/orchards	1	40	0	40	0	0	0	40	0	40
Rejuvenation of old orchards										

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Export potential fruits										
Micro irrigation systems of orchards	1	2	52	54	0	0	0	2	52	54
Plant propagation techniques	1	0	0	0	17	5	22	17	5	22
Others (pl specify)										
Total (b)	**5**	**107**	**65**	**172**	**17**	**5**	**22**	**124**	**70**	**194**
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl specify)										
Total (c)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (d)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (e)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (f)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl specify)										
Total (g)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Grand Total (a to g)	**11**	**109**	**101**	**210**	**91**	**153**	**244**	**200**	**254**	**454**
III Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated Nutrient Management										
Production and use of organic inputs										
Management of Problematic soils										

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing										
Others (pl specify)										
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
IV Livestock Production and Management										
Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Disease Management										
Feed & fodder technology	1	0	0	0	20	5	25	20	5	25
Production of quality animal products										
Others (pl specify)										
Total	**1**	**0**	**0**	**0**	**20**	**5**	**25**	**20**	**5**	**25**
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	2	0	0	0	0	66	66	0	66	66
Design and development of low/minimum cost diet	2	0	0	0	0	72	72	0	72	72
Designing and development for high nutrient efficiency diet	2	0	0	0	0	66	66	0	66	66
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	6	0	77	77	0	136	136	0	213	213
Women empowerment										
Location specific drudgery reduction technologies	1	0	0	0	0	25	25	0	25	25
Rural Crafts										
Women and child care	1	0	0	0	0	31	31	0	31	31
Others (pl specify)										
Total	**14**	**0**	**77**	**77**	**00**	**396**	**396**	**00**	**473**	**473**
VI Agril. Engineering										
Farm Machinery and its maintenance										
Installation and maintenance of micro irrigation systems										
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of										

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
farm machinery and implements										
Small scale processing and value addition										
Post Harvest Technology										
Others (pl specify)										
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
VII Plant Protection										
Integrated Pest Management	5	34	0	34	81	36	117	115	36	151
Integrated Disease Management	5	63	0	63	56	33	89	119	33	152
Bio-control of pests and diseases	2	43	3	46	28	34	62	71	37	108
Production of bio control agents and bio pesticides										
Others (pl specify)										
Total	**12**	**140**	**3**	**143**	**165**	**103**	**268**	**305**	**106**	**411**
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										
Others (pl specify)										
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
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										
Mushroom Production										
Apiculture										

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Others (pl specify)										
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
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										
Others (pl specify)										
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
GRAND TOTAL	**59**	**329**	**221**	**550**	**760**	**845**	**1605**	**1089**	**1066**	**2155**

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

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management										
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/irrigation										
Seed production										
Nursery management	1	0	0	0	19	6	25	19	6	25
Integrated Crop Management	13	0	0	0	391	100	491	391	100	491
Soil & water conservation										
Integrated nutrient management										
Production of organic inputs										
Others (pl specify) Natural farming	10	80	40	120	97	169	266	177	209	386
Total	**24**	**80**	**40**	**120**	**507**	**275**	**782**	**587**	**315**	**902**
II Horticulture										
a) Vegetable Crops										
Production of low value and high value crops	2	0	0	0	22	36	58	22	36	58
Off-season vegetables										
Nursery raising	1	0	0	0	1	55	56	1	55	56
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation	2	2	36	38	38	16	54	40	52	92
Others (pl specify) Urban	3	37	109	146	13	41	54	50	150	200

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
farming										
Total (a)	**8**	**39**	**145**	**184**	**74**	**148**	**222**	**113**	**293**	**406**
b) Fruits										
Training and Pruning	1	40	4	44	0	0	0	40	4	44
Layout and Management of Orchards										
Cultivation of Fruit	1	25	9	34	0	0	0	25	9	34
Management of young plants/orchards	1	40	0	40	0	0	0	40	0	40
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards	1	2	52	54	0	0	0	2	52	54
Plant propagation techniques	1	0	0	0	17	5	22	17	5	22
Others (pl specify)										
Total (b)	**5**	**107**	**65**	**172**	**17**	**5**	**22**	**124**	**70**	**194**
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl specify)										
Total (c)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (d)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (e)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (f)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl specify)										
Total (g)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Grand Total (a to g)	**13**	**146**	**210**	**356**	**91**	**153**	**244**	**237**	**363**	**600**

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
III Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated Nutrient Management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing										
Others (pl specify)										
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
IV Livestock Production and Management										
Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Disease Management										
Feed & fodder technology	1	0	0	0	20	5	25	20	5	25
Production of quality animal products										
Others (pl specify)										
Total	**1**	**0**	**0**	**0**	**20**	**5**	**25**	**20**	**5**	**25**
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	5	0	75	75	0	66	66	0	141	141
Design and development of low/minimum cost diet	2	0	0	0	0	72	72	0	72	72
Designing and development for high nutrient efficiency diet	2	0	0	0	0	66	66	0	66	66
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition	7	0	102	102	0	136	136	0	238	238
Women empowerment										
Location specific drudgery reduction technologies	1	0	0	0	0	25	25	0	25	25
Rural Crafts										
Women and child care	1	0	0	0	0	31	31	0	31	31
Others (pl specify)										
Total	**18**	**0**	**177**	**177**	**0**	**396**	**396**	**0**	**573**	**573**

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
VI Agril. Engineering										
Farm Machinery and its maintenance										
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										
Others (pl specify)										
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
VII Plant Protection										
Integrated Pest Management	6	61	7	68	81	36	117	142	43	185
Integrated Disease Management	5	63	0	63	56	33	89	119	33	152
Bio-control of pests and diseases	2	43	3	46	28	34	62	71	37	108
Production of bio control agents and bio pesticides										
Plant protection in medicinal and aromatic crops	1	0	0	0	92	8	100	92	8	100
Total	**14**	**167**	**10**	**177**	**257**	**111**	**368**	**424**	**121**	**545**
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										
Others (pl specify)										
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
IX Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
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										
Mushroom Production										
Apiculture										
Others (pl specify)										
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
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										
Others (pl specify)										
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
GRAND TOTAL	**70**	**393**	**437**	**830**	**875**	**940**	**1815**	**1268**	**1377**	**2645**

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

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
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										

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
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**	**0**	**0**

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

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
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										

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Repair and maintenance of farm machinery and implements										
Value addition	5	0	82	82	0	121	121	0	203	203
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										
Sponsored training on natural farming (Plant Protection)	1	19	2	21	7	2	9	26	4	30
TOTAL	**6**	**19**	**84**	**103**	**7**	**123**	**130**	**26**	**207**	**233**

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

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
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										

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition	5	0	82	82	0	121	121	0	203	203
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										
Sponsored training on natural farming (Plant Protection)	1	19	2	21	7	2	9	26	4	30
TOTAL	**6**	**19**	**84**	**103**	**7**	**123**	**130**	**26**	**207**	**233**

Training programmes for Extension Personnel including sponsored training (on campus)

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management	2	65	12	77	4	4	8	69	16	85
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										

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify) Natural farming										
TOTAL	**2**	**65**	**12**	**77**	**4**	**4**	**8**	**69**	**16**	**85**

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

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management										
Integrated Nutrient management	1	8	52	60	0	0	0	8	52	60
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	1	25	0	25	0	0	0	25	0	25
Any other (pl. specify) Natural farming	1	43	17	60	0	0	0	43	17	60
TOTAL	**3**	**76**	**69**	**145**	**0**	**0**	**0**	**76**	**69**	**145**

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

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management	2	65	12	77	4	4	8	69	16	85
Integrated Nutrient management	1	8	52	60	0	0	0	8	52	60
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										

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
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	1	25	0	25	0	0	0	25	0	25
Any other (pl.specify)	1	43	17	60	0	0	0	43	17	60
TOTAL	**5**	**141**	**81**	**222**	**4**	**4**	**8**	**145**	**85**	**230**

Sponsored training programmes

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management										
Increasing production and productivity of crops	**1**	85	10	95	0	0	0	85	10	95
Commercial production of vegetables	**2**	0	0	0	67	37	104	67	37	104
Production and value addition										
Fruit Plants										
Ornamental plants										
Spices crops										
Soil health and fertility management										
Production of Inputs at site										
Methods of protective cultivation										
Others (pl. specify)										
Total	**3**	**85**	**10**	**95**	**67**	**37**	**104**	**152**	**47**	**199**
Post harvest technology and value addition										
Processing and value addition										
Others (pl. specify)										
Total										
Farm machinery										
Farm machinery, tools and implements										
Others (pl. specify)										
Total										
Livestock and fisheries										
Livestock production and management										
Animal Nutrition Management										
Animal Disease Management										
Fisheries Nutrition										
Fisheries Management										
Others (pl. specify)										
Total										
Home Science										
Household nutritional security										
Economic empowerment of women										
Drudgery reduction of women										
Others (pl. specify)										
Total										
Agricultural Extension										
CapacityBuilding and Group Dynamics										

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Others (pl. specify) Crop protection	1	0	0	0	29	45	74	29	45	74
Total	**1**	**0**	**0**	**0**	**29**	**45**	**74**	**29**	**45**	**74**
GRAND TOTAL	**4**	**85**	**10**	**95**	**96**	**82**	**178**	**181**	**92**	**273**

Details of vocational training programmes carried out by KVKs for rural youth (4 or more than 4 days)

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management										
Commercial floriculture										
Commercial fruit production										
Commercial vegetable production										
Integrated crop management										
Organic farming										
Others (pl. specify)										
Total										
Post harvest technology and value addition										
Value addition	1	0	0	0	0	47	47	0	47	47
Others (pl. specify)										
Total										
Livestock and fisheries										
Dairy farming										
Composite fish culture										
Sheep and goat rearing										
Piggery										
Poultry farming										
Others (pl. specify)										
Total										
Income generation activities										
Vermicomposting										
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 (Decorative	1	0	0	0	0	30	30	0	30	30

Area of training	No. of Courses	No. of Participants								
		General/ Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
bamboo crafts articles)										
Total	**2**	**0**	**0**	**0**	**0**	**77**	**77**	**0**	**77**	**77**
Agricultural Extension										
Capacity building and group dynamics										
Others (pl. specify)										
Total										
Grand Total	**2**	**0**	**0**	**0**	**0**	**77**	**77**	**0**	**77**	**77**

3.5. Extension Programmes

Sr. No.	Activities	No. programmes	No. of Beneficiaries (PF/FW/RY)			No. of Extension personnel	Total
			Male	Female	Total	0	0
1	Farmers' Fair/ Day (Krishi mela, Khedut Sammelan)	02	1034	720	1754	67	1821
2	Field Day	6	66	33	99	5	104
3	Khedut Shibir	04	513	201	714	10	724
4	Kishan Gosthi	3	89	31	120	4	124
5	Farmers-Scientist Interaction	01	22	18	40	3	43
6	Film Show	85	1305	1866	3171	54	3225
7	Exhibition	10	11505	9589	21094	651	21745
8	**Advisory services**						
	Scientist visit to farmer's field	71	146	77	223	16	239
	Farmers visit to KVK	509	664	570	1234	1	1235
	Telephone help line	1164	4078	2029	6107	1	6108
	WhatsApp/Social media Advisories (Monthly)	12	5875	3200	9075	1	9076
9	Exposure Tour	01	26	4	30	1	31
10	Guest Lecture	27	1553	1871	3424	55	3479
11	**Celebration of different days**						
	Celebration of National Voters Day-2024(24/01/2024)	1	10	3	13	0	13
	Celebration of International Women's day (07/03/2024)	1	05	48	53	3	56
	Celebration of International Women's day (07/03/2024)	1	28	106	134	14	148
	Celebration of World Bee Day (20/05/2024)	1	40	27	67	3	70
	Celebration of World Environment Day(05/06/2024)	1	51	6	57	6	63
	Celebration of International Yoga day (21/06/2024)	1	30	31	61	0	61
	Celebration of ICAR Foundation Day(16/07/2024)	1	15	6	21	0	21
	Celebration of World Honeybee Day (17/08/2024)	1	18	14	32	1	33
	Celebration of *Parthenium* Awareness Week(16/08/2024)	1	12	10	22	1	23
	Celebration of Van Mahotsav-2024 (18/07/2024)	1	08	02	10	6	16
	Celebration Mahila Kisan Diwas(15/10/2024)	1	0	35	35	1	36

	Celebration World Food Day(16/10/2024)	1	0	49	49	2	51
	Celebration Golden Jubilee of KVKs(24-25/09/2024)	2	0	62	62	1	63
	Celebration golden jubilee of KVKs(27/09/2024)	1	42	62	104	5	109
	Awareness of Natural Farming & Biochar	9	269	70	339	5	344
	Celebration of World Soil Day (17/08/2024)	1	30	5	35	2	37
	Swachata Abhiyan Programme (17-09-2024 to 02-10-2024)	12	31	283	314	12	326
12	Seminar, Webinar, Conference	03	179	169	348	14	362
13	Research paper published	06	-- Published in Journal --			0	0
14	Abstract of Research Paper	16	Compendium of National Seminar, National Conference and National Symposium			0	0
15	Newspaper Coverage	49	-- Published in Local printed Newspaper--			0	0
16	News in Electronic media	03	YouTube videos in news channels *viz.*, Jansakshi News, VMG News and Banas Ratna News			2	3000
17	Popular Article	05	Published in News paper, Magazine & Book			0	0
Other Extension Activities							
18	FLD meeting	8	56	67	123	2	125
19	Farmers meeting	02	28	25	53	4	57
20	Farm women meeting	01	00	30	30	1	31
21	FLD visit	22	62	39	101	3	104
22	Field visit	43	173	99	272	18	290
23	OFT visit	08	17	04	21	2	23
24	Diagnostic visit	59	155	28	183	4	187
25	Extension literature distributed	16	479	495	974	4	978
26	Method Demonstration	106	321	654	975	11	986
27	OFT meeting	02	09	01	10	2	12
28	Student visit to KVK	03	69	62	131	6	137
29	Farm women Shibir	02	06	154	160	5	165
TOTAL		**2286**	**29019**	**22855**	**51874**	**1009**	**55881**

Note- Advisory services includes social media, website, telephonic calls etc.

Details of other extension programmes:

Particulars	**Number**
Electronic Media (CD./DVD)	00
Extension Literature	16
Newspaper coverage	49
Popular articles	05
Radio Talks	00
TV Talks	00
Animal health camps (Number of animals treated)	00
Social Media (No. of platforms Used)	5
Others (pl. specify)	--
Total	**75**

3.6 Online activities during year 2024

S. No.	Activity Type	Mode of implementation (Video conferencing / Audio Conferencing / Facebook Live / YouTube Live/ Zoom/ Google meet/ Webex etc.)	Title of Program	No. of Programmes	No. of Participants/ Views
A	Farmers training				
1	Farmers training	Google meet	Virtual training programme on Urban farming	1	84
	Total			1	84
B	Farmers scientist's interaction programme	0	0	0	0
	Total	0	0	0	0
C	Farmers seminars	0	0	0	0
	Total	0	0	0	0
D	Expert lectures	0	0	0	0
	Total	0	0	0	0
E	Any other (Pl. specify)	0	0	0	0
	Total	0	0	0	0
	Grand Total (A+B+C+D+E)	**1**	**1**	**1**	**84**

3.7. PRODUCTION OF SEED/PLANTING MATERIAL AND BIO-PRODUCTS

Production of seeds by the KVKs

Crop	Name of the crop	Name of the variety	Name of the hybrid	Quantity of seed (q)	Value (Rs)	Number of farmers
Cereals	Paddy	GR- 17 (Sardar)	-	188.00	601600	752
		GR-25(Mahatma)	--	201.25	644000	--
Oilseeds	Soybean	NRC-37	--	25.50	153000	102
Pulses	Green Gram	GM-6	--	7.50	90000	375
Commercial crops	-	-	-	-	-	-
Vegetables	-	-	-	-	-	-
Flower crops	-	-	-	-	-	-
Spices	-	-	-	-	-	-
Fodder crop seeds	-	-	-	-	-	-
Fiber crops	-	-	-	-	-	-
Forest Species	-	-	-	-	-	-
Others	-	-	-	-	-	-
Total						

Production of planting materials by the KVK

Crop	Name of the crop	Name of the variety	Name of the hybrid	Number	Value (Rs.)	Number of farmers
Commercial	-	-	-	-	-	-
Vegetable seedlings	-	-	-	-	-	-
Fruits	-	-	-	-	-	-
Ornamental plants	-	-	-	-	-	-
Medicinal and Aromatic	-	-	-	-	-	-
Plantation	-	-	-	-	-	-
Spices	-	-	-	-	-	-
Tuber	-	-	-	-	-	-
Fodder crop saplings	-	-	-	-	-	-
Forest Species	-	-	-	-	-	-
Others	-	-	-	-	-	-
Total						

Production of Bio-Products

Bio Products	Name of the bio-product	Quantity Kg/Lit	Value (Rs.)	No. of Farmers
Bio Fertilizers	-	-	-	-
Bio-pesticide	-	-	-	-
Bio-fungicide	-	-	-	-
Bio Agents	-	-	-	-
Others	-	-	-	-
Total				

Production of livestock materials

Particulars of Live stock	Name of the animal / bird / aquatics	Name of the breed	Type of Produce	unit (no./ lit/kg)	Quantity	Value (Rs.)	No. of Farmers
Dairy animals	-	-	-	-	-	-	-
Cows	-	-	-	-	-	-	-

Buffaloes	-	-	-	-	-	-	-
Calves	-	-	-	-	-	-	-
Others (Pl. specify)	-	-	-	-	-	-	-
	-	-	-	-	-	-	-
Poultry	-	-	-	-	-	-	-
Broilers	-	-	-	-	-	-	-
Layers	-	-	-	-	-	-	-
Duals (broiler and layer)	-	-	-	-	-	-	-
Japanese Quail	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-
Emu	-	-	-	-	-	-	-
Ducks	-	-	-	-	-	-	-
Others (Pl. specify)	-	-	-	-	-	-	-
	-	-	-	-	-	-	-
Piggery	-	-	-	-	-	-	-
Piglet	-	-	-	-	-	-	-
Others (Pl.specify)	-	-	-	-	-	-	-
Fisheries	-	-	-	-	-	-	-
Indian carp	-	-	-	-	-	-	-
Exotic carp	-	-	-	-	-	-	-
Others (Pl. specify)	-	-	-	-	-	-	-
Total							

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

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

B. Literature developed/published

Item	Citation/ Title	Authors name	Number
Research paper (Give Citation)	Response of novel organic liquid fertilizer with micronutrient application on quality of Banana Cv. Grand Nain.	Gurjar, Tulsi D.; Patil, S. J.; Chaudhari, Darshana B.; Panchal, Bhakti; Pandey, A.K. and Patel, Henaxi	Current Advances in Agricultural Sciences,15: 327-329.
Research paper	Leaf nutrient status and fruit quality of Alphonso mango as influenced by micronutrients.	Gurjar, Tulsi D.; Chaudhari, Darshana; Tandel, Y. N.; Panchal, Bhakti; Pandey, A.K. and Parmar, V. K.	*Current Advances in Agricultural Sciences,*15: 449-451.
Research paper	Effect of plant growth retardants on potted hibiscus.	Patel, Henaxi; Singh, Alka; Panchal, Bhakti; Shah, H. P.; Bhandari, A.J. and Patel, N.B.	*International Journal of Advanced Biochemistry Research,* 8 (12): 930-933.
Research paper	Evaluation of cotton (*Gossypium hirsutum* L.) varieties/genotypes for jassid, *Amrasca biguttula biguttula* (Ishida)resistance under rainfed conditions.	Patel, R. K., Pandya, J. R., Desai, H. R., Patel A. R. and Chaudhari, K. N.	*International Journal of Plant and Soil Science*, 36(3), 23-34. DOI: 10.9734/IJPSS/2024/v36i34395(ISSN: 2320-7035)
Research paper	Effectof different fungicides against the boll rot and foliar disease of cotton under South Gujarat of India.	Sandipan, P. B., Patel, P. S., Patel, R. K. and Patel, M. C.	*Biological Forum- An International Journal*, 16(5), 85-91. (ISSN: 0975-1130)
Research paper	Evaluation of different pH on the growth of *Corynespora cassiicola* of cotton.	Sangani, P., Sandipan, P. B., Patel, R. K., Patel, P. S., Ruwali, P.	*Journal of Plant Development Sciences*, 16(9), 361-367. (ISSN: 0974-6382)
Technical reports	MPR (12), QPR (4), AE MPR (12), SAC report (1), FLD	--	Periodically

	report, TSP report (4), Natural Farming Fortnight report (24), AAP (1), APR (1), Monthly Progress Report (12), AGRESCO (3), ZREAC report (1), Proactive Disclosure, Natural Farming Quarterly report (3)		
News letters	0	0	0
Technical bulletins	0	0	0
Popular article	Vividha prakarna athana.	Bhimani, G. J., and Rathod, J. H.	Krushi Vigyan, June- 2024 pp: 22.
Popular article	Management of Sunburn effect in fruit crop.	Panchal, Bhakti B. (2024).	*Just Agriculture: e- newsletter*, 4(11). p. 105-117.
Popular article	Advances in use of PGRs in Date Palm.	Panchal, Bhakti B. (2024).	*Just Agriculture: e- newsletter*, 4(5). p. 26-36.
Popular article	Heterosis in cucurbits.	Panchal, Bhakti B. (2024).	*Just Agriculture: e- newsletter*, 5(2). p. 121-126.
Popular article	Protected Cultivation.	Panchal, Bhakti B. and Parekh Bhamini V. (2024).	*Just Agriculture: e- newsletter*, 5(3). p. 192-195.
Extension literature	0	0	0
Others (Pl. specify)	0	0	0
TOTAL	**11**	**11**	**11**

C. Details of Electronic Media Produced

S. No.	Type of media (CD / VCD / DVD/ Audio-Cassette)	Title of the programme	Number
0	**0**	**0**	**0**

D. Details of Social Media Platforms Created / Used

S. No.	Type of social media platform	No of events (uploaded video/post/story etc.	Title of social media	Number of Followers/ Subscribers
1	YouTube Channel (no of video uploaded)	1	Bonsai Training & Exhibition Programme	184
2	Facebook page/ Account (no of Post)	0	0	0
3	Mobile Apps	0	0	0
4	WhatsApp groups	16	56	9075
5	Twitter Account	1	3	5
6	Any other (Pl. Specify)	0	0	0

E. Success Stories / Case studies, if any (two or three pages write-up on each case with suitable action photographs. The Success Stories / Case Studies need not be restricted to the reporting period).

A. Success Stories:

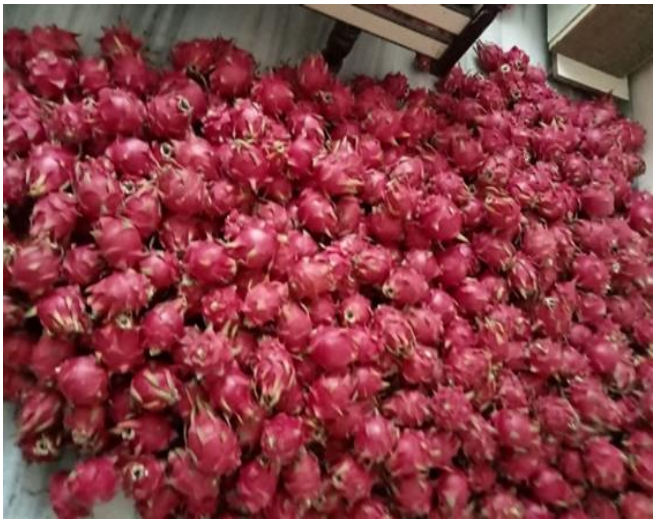
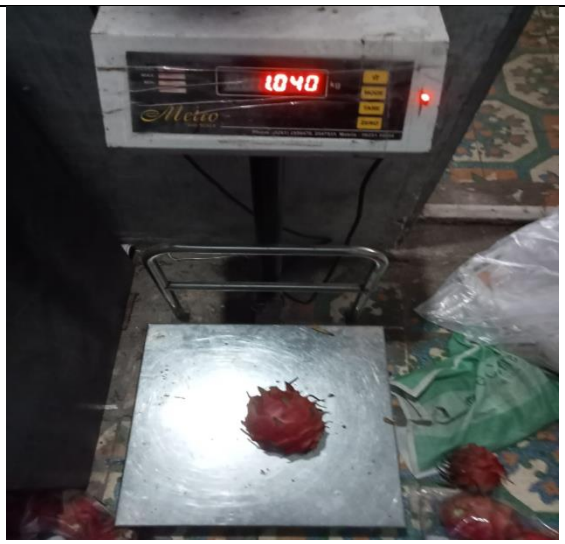
1. Introducing new crop in District-Dragon fruit

1	Name of Farmer	Bharatbhai Odhabhai Godhani
2	Father's Name	Odhabhai Godhani
3	Date of birth	30/01/1969
4	Postal Address	C-55, Sadhna Society, Behind Varachha Police Station, Surat, Gujarat-395006
5	Mobile No.	9428578101
6	Email Id	--

<table>
<tr><td>7</td><td>Educational qualification</td><td>9th Pass</td></tr>
<tr><td>8</td><td>Total land</td><td>8.00 ha</td></tr>
<tr><td>9</td><td>Area under Crop</td><td>(i) Field Crops: 4.32 ha
(ii) Horticultural Crops: 3.68 ha</td></tr>
<tr><td>10</td><td>New technologies developed</td><td>We were cultivating the sugarcane and paddy crops as all farmers do. We wanted to do something new in horticulture there. As we wanted to get more income than sugarcane which no one is doing in this area, we thought of cultivating Kamalam fruit. In order to get a better quality of the Kamalam fruits available in the market, we started cultivation of Kamalam fruit through natural farming which got great success than other crops.</td></tr>
<tr><td>11</td><td>Activities wise income, cost benefit ratio, gross and net income year wise for previous five years.</td><td><u>Crop –</u> Dragon fruit

<table>
<tr><th>Year</th><th>Area (ha)</th><th>Total production (kg)</th><th>Total income (Rs.)</th><th>Total cost (Rs.)</th><th>Net profit (Rs.)</th></tr>
<tr><td>2021-22</td><td>0.83</td><td>12000</td><td>2160000</td><td>720000</td><td>1440000</td></tr>
<tr><td>2022-23</td><td>1.69</td><td>18000</td><td>2880000</td><td>1028000</td><td>1852000</td></tr>
<tr><td>2023-24</td><td>3.68</td><td>24000</td><td>3360000</td><td>1290000</td><td>2070000</td></tr>
</table></td></tr>
<tr><td>12</td><td>What improvement have been effected for productivity, profitability and sustainability enhancement.</td><td>• In the local system, only paddy and sugarcane crops are grown in which 4 to 5 lakhs profit is taken per hectare.
• Thus, there is a 4 times more increase from the introduction of new crops.</td></tr>
<tr><td>13</td><td>Any spread effect on Fellow Farmers</td><td>More than 500 farmers have visited our farm after starting Kamalam fruit cultivation. Five farmers have started Kamalam cultivation by taking saplings from us.</td></tr>
</table>

Photos of Bharatbhai Farm

<table>
<tr>
<td>  </td>
<td> 
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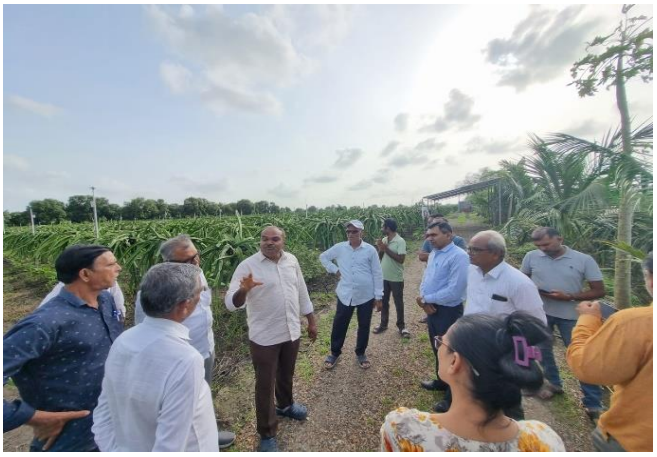
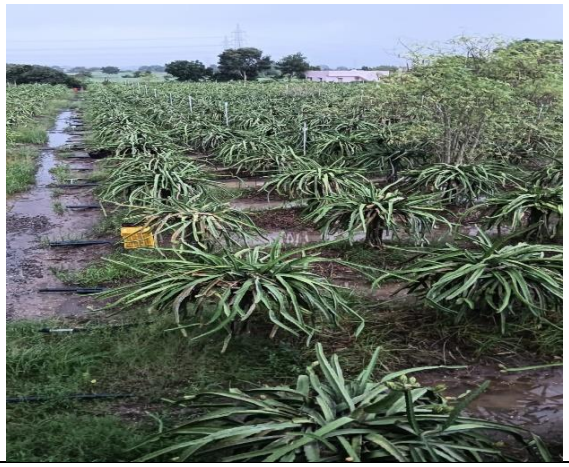
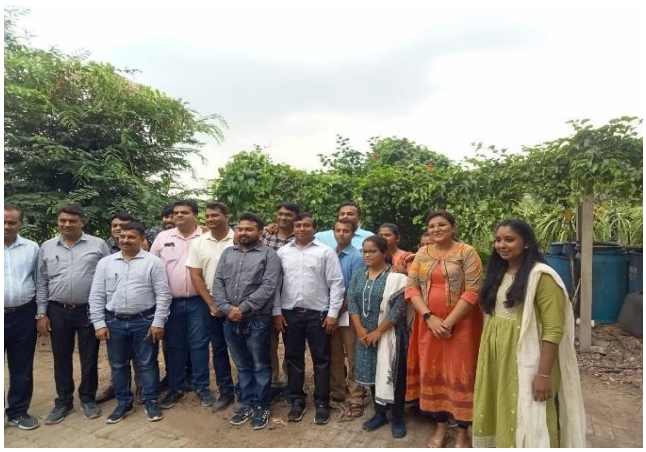
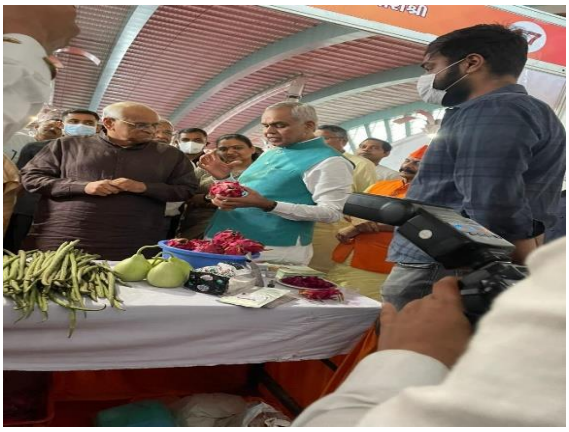





GATE 10




SBI



2. Natural Farming in Horticultural crops

1	Name of Farmer	Manharbhai Ishwarbhai Lad
2	Father's Name	Ishwarbhai Lad
3	Date of birth	09/07/1970
4	Postal Address	Village; Karanj, Block: Olpad, Dist: Surat, Gujarat-394530
5	Mobile No.	99252 42049
6	Email Id	--
7	Educational qualification	9th Pass
8	Total land	0.6880 ha
9	Area under Crop	Horticultural Crops: 0.6880 ha
10	New technologies developed	I have been involved in agriculture for the last 19 years cultivating different horticultural crops like, mango, guava, atemoya, papaya, aonla, mulberry, karambola, jamun, pomegranate, phalsa, etc. In vegetables, greater yam, drumstick, palak, fenugreek, little gourd, pointed gourd, turmeric, mint, etc. By adopting natural farming model for the last seven years I have reduced the cost of cultivation in the jungle model of my farm.
11	Activities wise income, cost benefit ratio, gross and net income year wise for previ- ous five years.	Crop: Horticultural crops

Year	Area (ha)	Total production (kg)	Total income (Rs.)	Total cost (Rs.)	Net profit (Rs.)
2021-22	0.6880	8200	361000	76600	284300
2022-23	0.6880	9800	508500	85000	422500
2023-24	0.6880	8450	492500	59500	433000

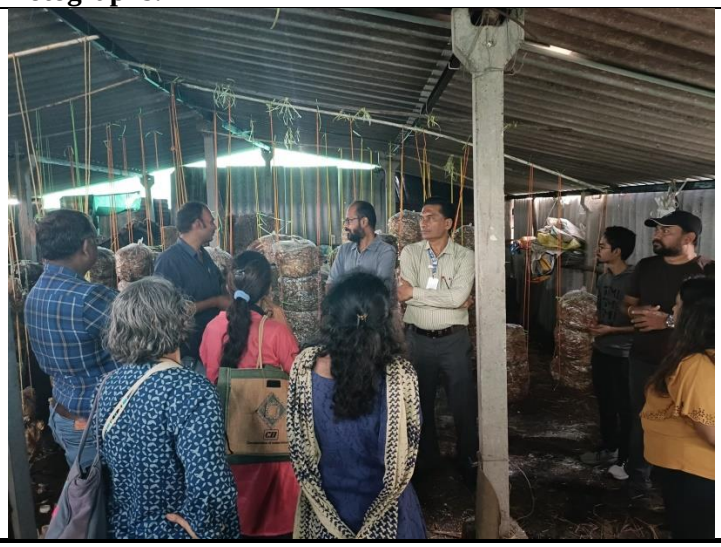
12	What improvement have been effected for productivity, profitability and sustainability/ enhancement.	In my jungle model, more fruit crops are planted due to not require the costs of planting materials, seeds/cuttings/seedling care etc. in the second the year. At present, I adopt natural farming method and use the fertilizers and medicine in my farm so that the cost of farming is negligible.
13	Any spread effect on Fellow Farmers	More than 500 people have visited the farming methods adopted by me. In which after visiting my farm, 50-60 farmers have adopted natural farming.

3. Entrepreneurship development through mushroom cultivation

Name of Farmer/ Entrepreneur	Nainesh Rameshbhai Patel
Address	Vasundhara farm, Village: Bhesan, Taluka: Chorasi, District: Surat, Gujarat
Mobile No.	+91 9408678007
Education	B. Com.
Age	33 years
Total Land	0.50 ha
Crops Cultivated	Paddy, Mushroom cultivation
Situation analysis/Problem statement	Nainesh Patel is born in farmer's family. After completion of study, he joined farming as family occupation. Paddy is the major crop cultivated in the Surat district. He cultivated paddy in his own land as per tradition of village farmers with annual income of around Rs.1,00,000. The productivity of paddy crop is low due to pest and disease incidence and lack of adoption of scientific cultivation practices. He divert to growing of vegetable crops in small field area for income generation, but not so much succeed due to lack of timely adoption of plant protection measures and scientific cultivation practices. He was looking for a new idea related to farming to generate his income.
KVK intervention	He came in contact with a Scientist (Plant Protection), Krishi Vigyan Kendra, Surat in a training program. Thereafter, he regularly visited at office KVK, Surat and obtained technical guidance about scientific cultivation practices of paddy crop. In next season, he obtained higher yield of paddy with lower cost of production, management of insect pest and

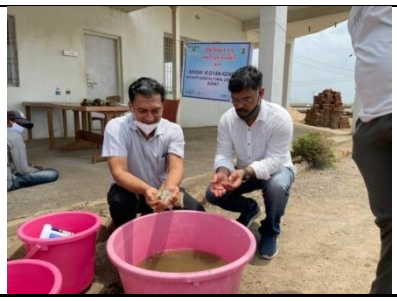
	diseases and gained more profit per acre as compared to other farmers of the village. The KVK Scientist (Plant Protection) advised him to start mushroom cultivation with use of paddy straw as a row material. He started cultivation of oyster mushroom with only 15 bags.
Output	Mr. Nainesh Patel joined a vocational training programme on mushroom cultivation organized by Krishi Vigyan Kendra, Surat. He cultivated paddy crop with better net profit. He utilized paddy straw of his own field- a byproduct of grain paddy, as a row material of mushroom cultivation. Day by day, he increased area/bags of mushroom cultivation and reached to 150 bags. Now a day, he harvested 4-5 kg fresh oyster mushroom on daily basis.
Outcome	• I (Mr. Nainesh Patel) realized that even a small space can generate good income. • In mushroom cultivation as a perishable food, if we could not sell a fresh crop, we can dry it and preserve it easily (no higher cost technology or machinery required) • I sell my fresh oyster mushroom between price ranges of Rs.250-400 per kg. • We can transfer fresh mushroom in powder form. I sell dry powder of oyster mushroom between price ranges of Rs.1200-2000 per kg. • I made different types of ready to use dry soup powder with value addition. I sell instant dry soup of oyster mushroom in Rs.20 per packet.

Photographs:



4. Entrepreneurship development through aquaculture

Name of Farmer/ Entrepreneur	Dr. Manoj Mohanlal Sharma
Address	21, Jivan vihar society, Opposite Navyug College, Rander Road, Adajan, Surat – 395005, Gujarat
Mobile No.	+91 9825412857
Education	M. Sc.(Fisheries science), Ph.D.
Age	55 years
Subject/ Crops	Shrimp farming
Situation analysis/ Problem statement	Gujarat is producing approximate 50,000 tons of shrimp from 7600 ha of salt affected waste lands with an annual turnover of 2500 crores rupees benefiting state and nation. A large area of costal belt are the barren salt affected wastelands which was of no use to the coastal rural people residing near those wastelands as they had to rely on capture fisheries or labour jobs in Urban cities or some small part time jobs. However, these occupations were not providing a stable employment opportunity to every individual living in such coastal areas.
KVK intervention	A technical expertise of Dr. Manoj Sharma in shrimp farming and KVK scientists in field of agriculture provided guidance to farmers or landless people for agriculture and/or aquaculture. A hectare of salt affected wasteland can directly-indirectly generate employment for 40 individuals.
Output	• Dr. Manoj has developed best management practices in shrimp farming which is being followed by many farmers in Surat district and other parts of Gujarat as they can produce their crop with ease. • He has played a key role in the development of the export-oriented shrimp industry

	module in South Gujarat and the farmer cluster approach has made Gujarat one of the most premium shrimp producing state in India exporting 2500 crore worth of shrimps, impressing the international seafood market. • He has developed a multiphase indoor concept which allows farmers to take more than one crop a year, which has increased the profitability of the shrimp farmers in Gujarat. • He has motivated youth to pursue aquaculture as a career and become farmers, as farmers are the backbone of our country. • His work in Gujarat gave employment to more than 10,000 poor tribal Odisha labors and he was honored for it by the Prabasi Odia Parivar for his immense contribution in the livelihood transformation of the poor rural and tribal communities. • His works have made the highly nutritive shrimp food available at their doorsteps and has provided food and financial security to the coastal people of Gujarat. His contributions have resulted into employment opportunities for 10000 labours in Gujarat and have directly and indirectly benefited more than 1.5 lakh people.
Outcome	• The barren salt affected wasteland of coastal region of Surat district and Gujarat converted into productive livelihood generating lands. • Socio-economic upliftment of thousands of coastal fishermen in Gujarat. • Massive reverse migration of occupation seeking coastal rural people from city to their respective coastal villages as a hectare of salt affected wasteland constructed into shrimp farm generates profit of Rs.5 to 6 lakhs per annum which is sufficient for an individual to sustain himself and his family. • The shrimp productivity of farmers increased 5 to 6 tons per hectare compared to the national average productivity of 2 to 3 tons per hectare, honoring the vision of our Indian government in terms of doubling the export, doubling the production and doubling the farmers' income. • Shrimp farming helped to empower many coastal women to get employment in shrimp processing plants and has motivated them to be self-reliant as they can carry out the shrimp farming for their livelihood with ease. Its' also motivated the youth to pursue aquaculture as their career.
Photographs:	  

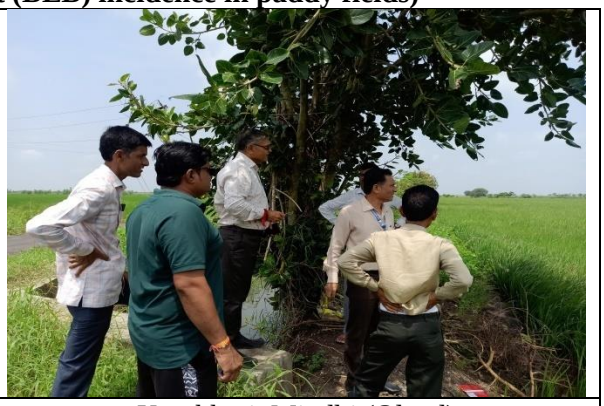
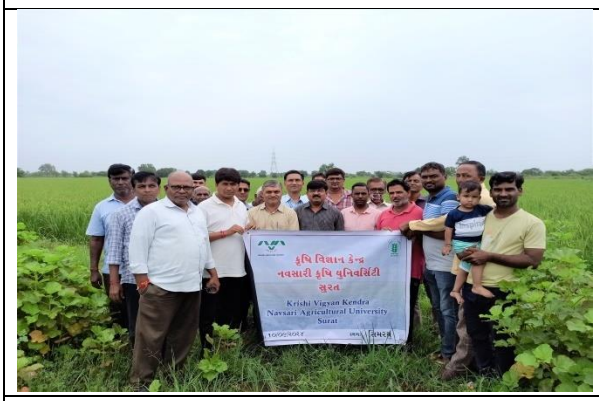
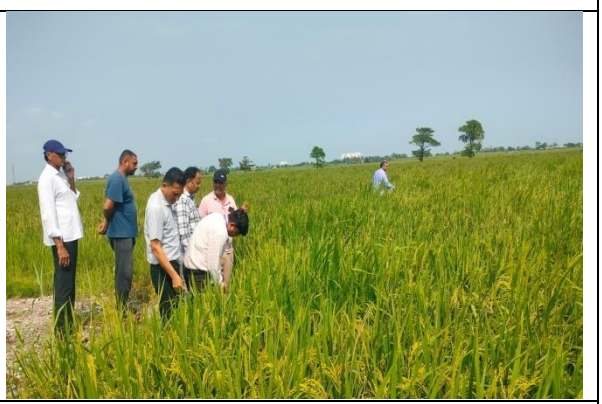
B. Case studies:

1. Bacterial Leaf Blight (BLB) incidence in paddy fields in large area of Surat distirct

Situation analysis/Problem statement	Paddy is a major cereal crop cultivated in the Surat district. It is cultivated in both season *i.e. Kharif* and summer in majority area/villages of Olpad, Chorasi, Kamrej and Chalthan talukas of the district. Insect pest and diseases are the major constrain for low productivity of the crop. Paddy cultivated in *Kharif* season is more vulnerable to insect pest and diseases than summer. In last season of *Kharif* 2024, a higher incidence of bacterial leaf blight (BLB) disease were noticed in the majority fields of paddy growing area of the Surat district.
KVK intervention	Krishi Vigyan Kendra, Surat organized diagnostic visits at villages Sondlakhara, Kumbhari, Naghoi, Mindhi, Olpad, Talad, Sonsak and Ambheta of Olpad taluka Surat district on September 09, 2024. Dr. J. H. Rathod, Senior Scientist & Head and Dr. R. K. Patel, Scientist (Plant Protection), KVK, Surat visited 17 paddy fields in 8 villages; diagnose bacterial leaf blight (BLB) incidence in paddy and guided to farmers for its management. A team of KVK, Surat organized diagnostic visits in collaboration with Regional Rice Research Station, Navsari Agricultural University, Vyara at villages Simarthu, Pardi, Bolav, Vanakla and Saroli of Olpad taluka Surat district

	on September 10, 2024. A team of NAU scientists *viz.*, Dr. J. H. Rathod, Dr. V. P. Patel, Dr. R. K. Patel and Dr. Kedarnath visited 15 paddy fields in 5 villages; diagnose bacterial leaf blight (BLB) incidence in paddy and guided to farmers for its management.
Output	A majority of paddy growing farmers utilized only systemic fungicides for management of bacterial leaf blight (BLB) incidence in paddy. An injudicious and indiscriminate use of pesticides could not provide better result against bacterial leaf blight in paddy. Due to lack of farmers' knowledge and improper guidance of agro-input dealers, the bacterial leaf blight incidence in paddy was not manageable. Krishi Vigyan Kendra, Surat release a press note on immediate basis for management of on bacterial leaf blight disease in paddy in eight different newspapers *viz.*, (1) Gujarat Mitra, (2) Dhabkar, (3) Sandesh and (4) Gujarat Gardian (Narmada & Bharuch), (5) Dharti no Dhabkar, (6) Nyay Darshan, (7) Gujarat Samachar & (8) Gujarat Gardian (Surat & Tapi)
Outcome	Farmers utilized recommended fungicides for management of on bacterial leaf blight disease in paddy after large campaigned through team of KVK scientists. A bacterial leaf blight disease in paddy was under control after application of recommended treatments.

Photographs: (Diagnostic visits for Bacterial Leaf Blight (BLB) incidence in paddy fields)

	
Sondlakhara (Olpad)	Kumbhari, Mindhi (Olpad)
	
Naghoi (Olpad)	Sonsak, Talad, Ambheta (Olpad)
	
Simarthu (Olpad)	Bolav, Pardi (Olpad)
	
Vanakla, Saroli (Olpad)	Sonsak (Olpad)

Press notes

બુધવાર ૧૧ સપ્ટેમ્બર, ૨૦૨૪ — ગુજરાતમિત્ર તથા ગુજરાતદર્પણ, સુરત

ભારે વરસાદ બાદ હવે ડાંગરના ખેડૂતો સુકારાથી ત્રાહિમામ

કૃષિ વિજ્ઞાન કેન્દ્ર સુરતના વૈજ્ઞાનિકોએ તપાસ શરૂ કરી

રોગિષ્ટ પાન કે છોડને ઉખાડી અને બાળીને નાશ કરવો

રોગવાળા ખેતરનું પાણી બાજુના ડાંગરના ખેતરમાં ન જાય તેની કાળજી રાખવા અપીલ

આ રીતે સુકારો, ઝાળ નામનો રોગ ડાંગરના ખેતરમાં ફેલાય છે

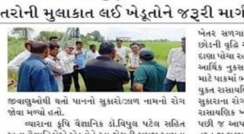
રોગ આગળ વધતો અટકાવવા ખેડૂતો ત્વરિત પગલાં ભરે: જયેશ દેલાડ

(1) "Gujarat Mitra", Date: 11/09/2024

Sandesh

ઓલપાડમાં ડાંગરના ઊભા પાકમાં પાનના સુકારાના રોગથી ખેડૂતો ચિંતામાં મુકાયા

કૃષિ વૈજ્ઞાનિકોએ ઘણા ખેતરોની મુલાકાત લઈ ખેડૂતોને જરૂરી માર્ગદર્શન પૂરું પાડ્યું



(2) "Sandesh", Date: 11/09/2024

ગુજરાત ગાર્ડિયન, નર્મદા, ભરૂચ ૧૧/૦૯/૨૪

ઓલપાડમાં ડાંગરમા સુકારાના રોગથી ખેડૂતો ચિંતિત

નવસારી અને સુરતના કૃષિ વૈજ્ઞાનિકો ડૉ.જનકસિંહ રાઠોડ, ડૉ.રાકેશ કે.પટેલે વિવિધ ગામોમાં ખેતરોની મુલાકાત માર્ગદર્શન આપ્યું

(3) "Gujarat Gardian (Narmada & Bharuch)", Date: 11/09/2024

3 ન્યાયદર્શન દૈનિક - સુરત / NYAY DARSHAN DAILY - SURAT — દક્ષિણ ગુજરાત — ૧૧-સપ્ટેમ્બર-૨૦૨૪ / 11-SEPTEMBER- 2024-WEDNESDAY

ઓલપાડમાં ડાંગર પકવતાં ખેડૂતો પાનના સુકારાના રોગથી ચિંતિત

કૃષિ વૈજ્ઞાનિકોએ ડાંગરના ઘણા ખેતરોની રૂબરૂ મુલાકાત લઈ ખેડૂતોને માર્ગદર્શન પૂરું પાડ્યું

"ખેડૂતો રોગ પર કાબૂ મેળવવાના પ્રયત્નો તાકીદે શરૂ કરે : જયેશ પટેલ"

મુખ્યમંત્રી ભૂપેન્દ્ર પટેલનો શહેરી જનજીવન સુખાકારીનો વધુ એક મહત્વપૂર્ણ નિર્ણય

રાજ્યની મહાનગરપાલિકા વિસ્તારના મતવિસ્તારમાં રોડરસ્તાના કામો માટે ધારાસભ્યદીઠ રૂ. ૨ કરોડની વધારાની ગ્રાન્ટ મંજૂર

(4) "Nyay Darshan", Date: 11/09/2024

ઓલપાડ તાલુકામાં ડાંગરના ઊભા પાકમાં પાનના સુકારાના રોગથી ખેડૂતો ચિંતિત

કૃષિ વૈજ્ઞાનિકોએ ખેતરોની રૂબરૂ મુલાકાત લઈ ખેડૂતોને માર્ગદર્શન આપ્યું

ધબકાર પ્રતિનિધિ, કડોદ, તા. ૧૦

(તસવીર : ચેતન ટેલર)

સુકારાના રોગથી ખેડૂતો ભારે ચિંતિત

(5) "Dhabkar", Date: 11/09/2024

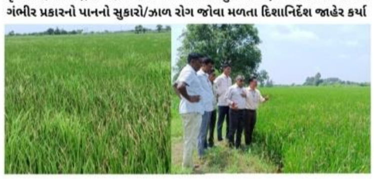
સાપ્તાહિક ગુજરાતી અખબાર

ધરતીનો ધબકાર

DHARTI NO DHABKAR-GUJARATI WEEKLY

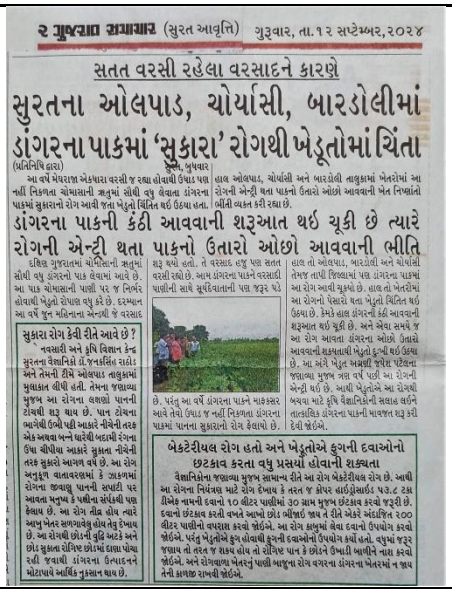
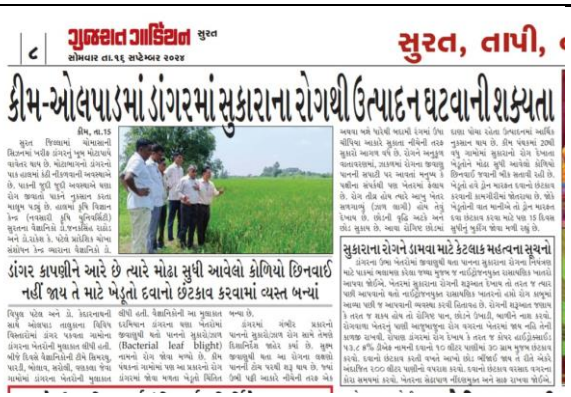
તંત્રી : મહેન્દ્રસિંહ માંગરોલા (Mo : 8128711043) | Editor : Mahendrasinh Mangrola

કૃષિ વિજ્ઞાન કેન્દ્રના વૈજ્ઞાનિકોને ઓલપાડ તાલુકાના ઘણા ખેતરોમાં ડાંગરમાં ગંભીર પ્રકારનો પાનનો સુકારો/ઝાળ રોગ જોવા મળતા દિશાનિર્દેશ જાહેર કર્યા



ડાંગરના પાકમાં જીવાણુથી થતા 'પાનનો સુકારો/ઝાળ' (Bacterial leaf blight) રોગ સામે ખેડૂત મિત્રો આટલી કાળજી રાખે

(6) "Dharti no Dhabkar", Date: 11/09/2024

 ૨ ગુજરાત સમાચાર (સુરત આવૃત્તિ) ગુરૂવાર, તા.૧૨ સપ્ટેમ્બર,૨૦૨૪ સતત વરસી રહેલા વરસાદને કારણે સુરતના ઓલપાડ, ચોર્યાસી, બારડોલીમાં ડાંગરના પાકમાં 'સુકારા' રોગથી ખેડૂતોમાં ચિંતા ડાંગરના પાકની કંઠી આવવાની શરૂઆત થઈ ચૂકી છે ત્યારે રોગની એન્ટ્રી થતા પાકનો ઉતારો ઓછો આવવાની ભીતિ સુકારા રોગ કેવી રીતે આવે છે ? બેક્ટેરીયલ રોગ હતો અને ખેડૂતોએ ફુગની દવાઓનો છંટકાવ કરતા વધુ પ્રસર્યો હોવાની શક્યતા	 ડીમ-ઓલપાડમાં ડાંગરમાં સુકારાના રોગથી ઉત્પાદન ઘટવાની શક્યતા ડાંગર કાપણીને આરે છે ત્યારે મોઢા સુધી આવેલો કોળિયો છિનવાઈ નહીં જાય તે માટે ખેડૂતો દવાનો છંટકાવ કરવામાં વ્યસ્ત બન્યાં સુકારાના રોગને ડામવા માટે કેટલાક મહત્વના સુચનો
(7) "Gujarat Samachar", Date: 12/09/2024	(8) "Gujarat Gardian (Surat & Tapi)", Date: 16/09/2024

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

Technology transfer – OLN-Novel, Novel plus, Novel Prime, Fruit fly trap (Fruits and vegetable), Bio-fertilizers

F. 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)

Sr. No.	Crop/Enterprise	ITK Practiced	Purpose of ITK
1	Caster	Soak seed with sour butter milk overnight to control the catter piller in caster crop and may be used in other crops too.	**Plant Protection**
2	Paddy	Removed of tips in Paddy and other seedlings to enhance drought tolerance and also sustained to water logging/ flowing condition.	**Agronomy**

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

A. Practicing Farmers

a) Group discussion
b) Power point presentation
c) Method demonstration

B. Rural Youth

a) Group discussion
b) Power point presentation
c) Method demonstration

C. In-service personnel

a) Group discussion
b) Power point presentation
c) Method demonstration

5.2. Indicate the methodology for identifying OFTs/FLDs – As per methodology mentioned in table 2.7

5.3 Field activities – As mentioned in Table No. 2.7 and 3.1 B

6. LINKAGES

A. Functional linkage with different organizations

Name of organization	Nature of linkage
ATMA	Training, Exhibitions, Best ATMA Award Participation, Meeting
Line departments (Horticulture & Agriculture)	Training, Seminar, Exhibition and Sibir
NABARD	Trainings, FLD distribution, Exhibition

Ambuja Cement Foundation	Meeting, Special Day Celebration
Forest	Sibir
Care India	Trainings, Special Day Celebration, Sibir
KVSVS	Trainings, Special Day Celebration
ICDS	Training

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

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

Name of the scheme	Date/ Month of initiation	Funding agency(State Govt./Other Agencies)	Amount (Rs.)
--	-	-	-

C. Details of linkage with ATMA

a) Is ATMA implemented in your district Yes

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

Coordination activities between KVK and ATMA

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	No of Farmers attending
01	**Meetings**		4	4	0
02	**Research projects**	0	0	0	0
03	**Training programmes**	11	11	11	392
04	**Demonstrations**	--	--	--	--
05	**Extension Programmes**	8	8	8	
	Kisan Mela	1	1	1	25869
	Technology Week	-	-	-	-
	Exposure visit	-	-	-	-
	Exhibition	3	3	3	158
	Soil health camps	-	-	-	-
	Animal Health Campaigns	-	-	-	-
	Others (Pl. specify)	7	7	2	3896
06	**Publications**				
	Video Films	-	-	-	-
	Books	-	-	-	-
	Book chapter	-	-	-	-
	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
-	-	-	-	-	-

E. Nature of linkage with National Fisheries Development Board

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

F. Details of linkage with RKVY (Skill development/RPL)

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

G. Details of linkage with PKVY (Paramparagat Krishi Vikas Yojana)

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	**CFLD oil seed**	**Demonstration: 60 ha**	**276000**	**276000**	**--**

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:

Sr. No.	Name of the sponsoring agency	Type of activity	Role of KVK	No. of farmers benefited
1	ATMA	Training, Exhibitions, Best ATMA Award Participation	As Guest Lecturer in Training	488
2	Bank of Baroda	Exhibitions	Exhibition stall at Bardoli	2340
3	Forest Department	Trainings, Sibir	As Guest Lecturer in Training	251
4	Baroda Swarojgar Vikas Sansthan	Sibir	As Guest Lecturer in Training	54
5	DRDA, Surat	Training, Exhibition	Guest Lecture	1040

6	Department of Horticulture, Surat	Training, Sibir, Seminar	Guest Lecture, Diagnostic Visit	842
7	Department of Agriculture, Surat	Training, Sibir, Seminar	Guest Lecture, Diagnostic Visit	810
8	ICDS, Mandvi	Training	Guest Lecture	130
9	Community Science Center, Surat	Training, Seminar	Guest Lecture	107
10	Ambuja Cement Foundation	Trainings	As Guest Lecturer in Training	47
11	Mandvi Rice mill Co-operative Society, Mandvi	Trainings, Sibir, FLD	As Guest Lecturer in Training, Input distribution	157
12	Adani Foundation, Surat	Sibir, Training	As Guest Lecturer in Training	122
13	KVSVS, Surat	Training, Sibir, FLD, Field Visit	FLD Distribution, Guest lecture, Diagnostic Visit	221

8. Innovative Farmers Meet

Sl.No.	Particulars	Details
	Have you conducted Farm Innovators meet in your district?	No
	Brief report in this regard	

9. Farmers Field School (FFS)

S. No	Thematic area	Title of the FFS	Budget proposed in Rs.	Expenditure	Brief report
-	-	-	-	-	-

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

Sr.No	Crop	Technology	Feedback
1	Paddy	GNRH -2	1.Medium slender grain rice 2. It is moderately resistant against bacterial leaf blight, leaf blast, grain discoloration and sheath rot. 3. Tolerant to insect pest like BPH, WBPH, leaf folder and stem borer. 4 Suitable for rice growing areas of South Gujarat
2	Paddy	GR -17(Sardar)	1. Early maturing, Long bold grain 2. Moderately resistant against bacterial leaf blight, leaf blast, grain discoloration, sheath rot, WBPH and leaf folder.. 3. Suitable for transplanted rice growing areas.
3	Paddy	GNR -9 (Lal-Kada Gold)	1.Red Kernel 2.Bio-fortified variety
4	Paddy	GR – 24 (Navsari Parimal)	1.Long Slender 2.Early maturing 3.Non-Lodging
5	Paddy	GR-18(Devli Kolam)	1.Medium Slender 2.Medium Resistant to Pest & diseases 3.Early maturing & Non-lodging
6	Paddy	GR – 16(Tapi)	1.Early maturing upland rice variety 2.Long bold variety with good grain quality 3. Moderately resistant reaction against leaf blast and insect pest like stem borer and sheath mite. Suitable for upland rice growing areas.
7	Sorghum	GNJ-1	1.High yielding 2.Less incidence of smut, shoot borer and grain mould
8	Soybean	NRC-37	1.Moderate yield 2.Early maturing

			3. Moderately Resistant to Pest & disease
9	Sesame	GT-3	1.Moderate yield 2. Moderately Resistant to Helicoverpa
10	Sesame	GT-5	1.High yield than GT-3 2. Moderately to high Resistant to Helicoverpa
10	Paddy	IPDM	Lower infestation of stem borer, leaf folder in paddy field; lower intensity of Bacterial Leaf Blight, blast, grain discoloration and other diseases, increase yield of paddy
11	Sugarcane	IPDM	Lower infestation of borers and sucking pests in sugarcane, less incidence of soil borne diseases, increase yield of sugarcane
12	Banana	IPDM	Less incidence of wilt, nematodes, less infestation of weevil in banana field, increase yield of banana
13	Pointed gourd	IPDM	Less incidence of soil borne and other diseases, less infestation of pests, improve quality and production of pointed gourd fruits
14	Brinjal	IPDM	Lower infestation of fruit & shoot borer and sucking pests in brinjal, decrease use of chemical fertilizers and pesticides; increase quality and yield of brinjal fruits
15	Okra	IPDM	Less infestation of insect pests, decrease use of chemical fertilizers and pesticides; increase in yield and quality of fruits in okra
16	Mango	IPDM	Less infestation of fruitfly and incidence of diseases, increase in yield and quality of mango fruits
17	Brinjal, okra, banana and pointed gourd.	Bio-fertilizers and Novel Organic Liquid Nutrients	With using bio-fertilizers and Novel Organic Liquid Nutrients which increase the yield & quality of fruit, decrease use of chemical fertilizers in brinjal, okra, banana and pointed gourd.
18	Mango and cluster bean	Novel Organic Liquid Nutrients	Foliar application of Novel Organic Liquid Nutrients reduce flower drop and increase fruit setting ratio in mango and cluster bean.
19	Indian bean	GNIB-22	Indian bean cv. GNIB-22 gave good result in terms of yield and quality as well as price compare to local cultivar.
20	Pointed gourd	GNPG-1	Pointed gourd cv. GNPG-1 gave more production than local variety.
21	Little gourd	GNLG-1	Little gourd cv. GNLG-1 gave More fruit setting than local cultivar and medium size fruit get high market demand than local cultivar.
22	Twin wheel hoe weeder, Rake for collecting garbage/harvesting and Stalk puller	Women drudgery reduction	Farm women like Twin wheel hoe weeder, Rake for collecting garbage/harvesting and Stalk puller because it avoids the bending/squatting posture that is generally adopted in traditional method of weeding/ collecting garbage/harvesting/ uprooting crop stalks
23	Kitchen garden	Nutrition management	Farm women are not applying any pesticides in kitchen garden so they get organic vegetables.

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

- Huge damage of pig/wild boar in agricultural crops in village of Masma, Mandroi, Asnad, Sarsana, Sandhier, Bharundi, Kareli, Madhar *etc.*
- The problem of pointed gourd wilt and nematodes are increasing in area of Mahuva and Olpad block of Surat district. Effective IPDM module should be developing.
- IDM module for the management of Banana wilt should be developed.
- Compatibility study on use of Novel, Novel plus and Novel prime with other organic or chemical should be done to cut down the cost of cultivation.
- Seed of groundnut should be available earlier.
- Seed of recently released new variety of pulses *viz;* chickpea & summer green gram and oilseeds viz; sesame & groundnut should be available in time.

- Sufficient and timely availability of grant specially in NMOOP

11. Technology Week celebration during 2024: No, If Yes

Period of observing Technology Week: From to
Online / Offline:
Total number of farmers visited :
Total number of agencies involved :
Number of demonstrations visited by the farmers within KVK campus:

Other Details

Types of Activities	No. of Activities	Number of Farmers	Related crop/livestock technology
Gosthies	--	--	--
Lectures organized	--	--	--
Exhibition	--	--	--
Film show	--	--	--
Fair	--	--	--
Farm Visit	--	--	--
Diagnostic Practical's	--	--	--
Supply of Literature (No.)	--	--	--
Supply of Seed (q)	--	--	--
Supply of Planting materials (No.)	--	--	--
Bio Product supply (Kg)	--	--	--
Bio Fertilizers (q)	--	--	--
Supply of fingerlings	--	--	--
Supply of Livestock specimen (No.)	--	--	--
Total number of farmers visited the technology week	--	--	--

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
--	--	--	--

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 interactions	No. of participants
--	--	--	--
Total	--	--	--

D. Animal health camps organized

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

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

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

F. Large scale adoption of resource conservation technologies

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

G. Awareness campaign

State	Meetings		Gosthies		Field days		Farmers fair		Exhibition		Film show	
	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers	No.	No. of farmers
Total	**0**	**0**	**0**	**0**	**0**				**0**			

13. IMPACT

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

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Paddy Var- Sardar	200	60	60940	83110
Paddy Var-Devli Kolam	300	75	60980	81900
Cotton Var- G. Cot Hy. 10 Bt	150	60	78660	105900
Pigeonpea GT-105	275	68	87690	113670
Soybean NRC-37	435	70	13360	23500
NOVEL OLN in Vegetables	410	71	222520	283600
IPDM in Paddy	110	67	38893	47511
IPDM in Sugarcane	105	65	168166	191637
IPDM in Banana	125	75	519135	570197
Fruitfly trap in Mango	210	68	172200	186430
IPDM in Brinjal	90	65	266915	302767
IPDM in Okra	85	70	321930	376038
Mushroom cultivation	49	10	0	16500
Terrace / Kiitchen Gardening	285	82	0	29500
Twin wheel hoe weeder for weeding	65	25	1861	3045
Rake for collecting garbage/ harvesting	165	37	779	1240
Stalk Puller for uprooting crop stalks	90	23	1005	1675
Kitchen garden	270	65	1000	5700
Value addition	250	38	0	10540

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

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

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

14. Kisan Mobile Advisory Services

Month	No. of SMS sent	No. of farmers to which SMS was sent	No. of feedback / query on SMS sent
Jan 2024	2	930	--
Feb 2024	2	721	--
March 2024	2	585	--
April 2024	2	425	--
May 2024	3	933	--
Jun 2024	3	974	--
Jul 2024	3	1002	--
Aug 2024	3	852	--
Sept 2024	3	986	--

Oct 2024	3	521	--
Nov. 2024	3	489	--
Dec. 2024	2	529	--

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Marke-ting	Aware-ness	Other enterprise	Total
	Text only	31						31
	farmers Benefited	8947						**8947**
	Voice only	0						0
	farmers Benefited	0						0
	Voice & Text both	0						0
	farmers Benefited	0						0
	Total Messages	**31**						**31**
	Grant total of farmers Benefited	**8947**						**8947**

15. PERFORMANCE OF INFRASTRUCTURE IN KVK

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

Sl. No.	Demo Unit	Year of establishment	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Produce	Qty.	Cost of inputs	Gross income	
--	--	--	--	--	--	--	--	--	--

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

Name of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Cereals	-	-	-	-	-	-	-	-	-
Pulses	-	-	-	-	-	-	-	-	-
Oilseeds	-	-	-	-	-	-	-	-	-
Fibers	-	-	-	-	-	-	-	-	-
Spices & Plantation crops									
	-	-	-	-	-	-	-	-	-
Floriculture	-	-	-	-	-	-	-	-	-
Fruits	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
Vegetables	-	-	-	-	-	-	-	-	-

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

Sl. No.	Bio Products	Name of the Product	Qty (kg/lit)	Amount (Rs.)		Remarks
				Cost of inputs	Gross income	
1.	Bio-Fertilizers	--	--	--	--	--
2.	Bio-Fungicides	--	--	--	--	--
3.	Bio-pesticides	--	--	--	--	--
4.	Bio-Agents	--	--	--	--	--

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

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
--	--	--	--	--	--	--	--

E. Utilization of hostel facilities

Accommodation available (No. of beds):

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
January 2024	-	-	-
February 2024	-	-	-
March 2024	-	-	-
April 2024	-	-	-
May 2024	-	-	-
June 2024	-	-	-
July 2024	-	-	-
August 2024	-	-	-
September 2024	-	-	-
October 2024	-	-	-
November 2024	-	-	-
December 2024	-	-	-

F. Database management

S. No	Period of Database	Database target	Database created
--	--	--	--

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

Amount sanction (Rs.)	Expenditure (Rs.)	Details of infrastructure created / micro irrigation system etc.	Activities conducted					Quantity of water harvested in '000 litres	Area irrigated / utilization pattern
			No. of Training programmes	No. of Demonstration s	No. of plant materials produced	Visit by farmers (No.)	Visit by officials (No.)		
--	--	--	--	--	--	--	--	--	--

H. Performance of Nutritional Garden at KVK farm

If Nutritional Garden developed at KVK farm/Village Level? Yes/No

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
	Vegetable crops	16	250

	Fruit crops	1	250
	Others if any	--	--

Nutritional Garden developed at Village Level (Area under nutritional garden): Nil

No. of Villages covered	Component of Nutritional Garden	No. of species / plants in nutritional garden	No. of farmers covered
	Vegetable crops		
	Fruit crops		
	Others if any		

H. Details of Skill Development Trainings/RPL organized

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

17. FINANCIAL PERFORMANCE

A. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Branch code	Account Name	Account Number	MICR Number	IFSC Number
With Host Institute	State Bank Of India	SBI, NAU, Campus ,Navsari	003889	Comptroller, NAU, Navsari, Gujarat	10389373215	396002062	SBIN003889
With KVK	State Bank Of India	Prakash Society Surat	009166	NAU Krishi Vigyan Kendra, Athwa Farm Surat	33390210202	395002022	SBIN0009166

B. Utilization of KVK funds during the year 2024-25 (Rs. in lakh) (Till February, 2025)

S. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	**Pay & Allowances**	16100000	14843344	13729118
2	**Traveling allowances**	0	0	207345
3	**Contingencies**			
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)			
B	POL, repair of vehicles, tractor and Equipments			
C	Meals/refreshment for trainees (ceiling upto Rs.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 demonstration in a year)			
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)			

G	Training of extension functionaries			
H	Maintenance of buildings			
I	Establishment of Soil, Plant & Water Testing Laboratory			
J	Library			
TOTAL (A)				
B. Non-Recurring Contingencies		**2000000**	**2191220**	**1580046**
1	**Works**			
2	**Equipments including SWTL & Furniture**			
3	**Vehicle** (Four wheeler/Two wheeler, please specify)			
4	**Library** (Purchase of assets like books & journals)			
TOTAL (B)				
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)				

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

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year
April 2020 to March 2021	737079	198210	715629	469660
April 2021 to March, 2022	469660	1561876	1222598	808938
April 2022 to March 2023	808938	1643010	1009001	1432121
April 2023 to March 2024	1432121	1464750	1995656	901215
April 2024 to March 2025	1557289	1572568	1770675	1358982

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

Name of Staff	Designation	Title of the training programme	Institute where attended	Mode (Online / Offline)	Date
Dr. R. K. Patel	Scientist (Plant Protection)	Meeting under chairmanship of Dr. C. K. Timbadiya, Hon'ble VC, GNFSU, Halol, Gujarat	KVK, Surat	Offline	08/01/2024
Dr. R. K. Patel	Scientist (Plant Protection)	Meeting under chairmanship of DEE, NAU, Navsari	KVK, Surat	Offline	11/01/2024
Dr. R. K. Patel	Scientist (Plant Protection)	"Inauguration of Administrative Building of KVK, Surat" and "Workshop on Natural Farming & Millets"	KVK, Surat	Offline	23/01/2024
Dr. R. K. Patel	Scientist (Plant Protection)	Agriculture exhibition in stalls during Inauguration of KVK, Surat Administrative Building and Workshop	KVK, Surat	Offline	23/01/2024
Prof. G. J. Bhimani,	Scientist (Home Science)	"20th Meeting of Agricultural Research Council- Social Science Sub-Committee"	NAU, Navsari	Offline	13/02/2024
Dr. R. K. Patel	Scientist (Plant Protection)	Attend 2nd AMC Meeting of ATMA Project, Surat	JDA office, Surat	Offline	19/02/2024
Dr. R. K. Patel	Scientist (Plant Protection)	Live telecast programme of Hon'ble Prime Minister on PM Kisan Samman Nidhi (Release of 16th installment of PM-KISAN Scheme)	KVK, Surat	Offline	28/02/2024
Dr. J. H. Rathod, Senior Scientist & Head	All Technical Staff	12th Scientific Advisory Committee (SAC) meeting of KVK, Surat	KVK, Surat	Offline	02/03/2024
Dr. R. K. Patel, Scientist (Plant Protection)					
Shri. S. J. Trivedi, Scientist (Agronomy)					
Prof. G. J. Bhimani, Scientist (Home Science)					
Mr. Y. D. Patel, Training Asst.					
Dr. J. H. Rathod, Senior Scientist &	All Technical Staff	Technological Backstopping Workshop for Technical Staff	NAU, Navsari	Offline	14/03/2024

Head Dr. R. K. Patel, Scientist (Plant Protection) Shri. S. J. Trivedi, Scientist (Agronomy) Prof. G. J. Bhimani, Scientist (Home Science) Mr. Y. D. Patel, Training Asst.		of KVKs			
Dr. R. K. Patel	Scientist (Plant Protection)	"20th Meeting of Agricultural Research Council- Plant Protection Sub-Committee"	NAU, Navsari	Offline	15-16/03/2024
Dr. R. K. Patel	Scientist (Plant Protection)	Perform duties as "Presiding Officer" in Parliament General Election-2024 & attend meeting/trainings	Surat & Bardoli	Offline	28/03/2024, 30/04/2024, 03/05/2024 & 06-07/05/2024
Dr. R. K. Patel	Scientist (Plant Protection)	Attend 5th District Level Monitoring Committee (DM-C) Meeting on Central Sector Scheme "Formation and Promotion of Farmer Producer Organizations (FPOs)"	Jilla Seva Sadan, Surat	Offline	30/03/2024
Dr. R. K. Patel	Scientist (Plant Protection)	Awareness programme on Krishi Jagran, Millionaire Farmers of India (MFOI) awards and Samridh Kisan Utsav	KVK, Surat	Offline	11/04/2024
Dr. R. K. Patel	Scientist (Plant Protection)	"International Agriculture Certificate Course-Cum-Training Programme on Prime Minister & Ministry of Agriculture & Farmers' Welfare Sponsored Agriculture Scheme & Indian Agriculture Vision-2050"	Jointly organized by GNFSU, Anand, Gujarat; Hindustan Agricultural Research Welfare Society and others	Online	01 to 30/04/2024 (One Month)
Prof. G. J. Bhimani,	Scientist (Home Science)				
Dr. R. K. Patel	Scientist (Plant Protection)	Attend meeting/training for duties of Observer in the examination (Advertisement No.212/202324)	Gujarat State Subordinate Selection Board (GSSSB), Gandhinagar	Online	04/05/2024
Dr. J. H. Rathod, Senior Scientist & Head Dr. R. K. Patel, Scientist (Plant Protection) Shri. S. J. Trivedi, Scientist (Agronomy)	All Technical Staff	Attend Pre Annual Action Plan Workshop/Meeting of KVKs under NAU jurisdiction	NAU, Navsari	Offline	09/05/2024

Prof. G. J. Bhimani, Scientist (Home Science) Mr. Y. D. Patel, Training Asst.					
Dr. R. K. Patel	Scientist (Plant Protection)	Attend district level committee meeting of rodent control programme under A.G.R.-2 scheme	JDA office, Surat	Offline	27/05/2024
Dr. R. K. Patel	Scientist (Plant Protection)	Attend 1st AMC Meeting of ATMA Project, Surat	JDA office, Surat	Offline	27/05/2024
Dr. R. K. Patel	Scientist (Plant Protection)	Seminar on mango cultivation and lecture delivered on "IPDM in Mango"	KVK, Surat	Offline	11/06/2024
Dr. R. K. Patel	All Technical Staff	Exhibition of different mango varieties under mango festival-seminar	KVK, Surat	Offline	11/06/2024
Dr. R. K. Patel	Scientist (Plant Protection)	Brain storming session of plant protection on the topic “Transformation of Agricultural Research in Plant Protection”	NAU, Navsari	Offline	02/07/2024
Dr. R. K. Patel	Scientist (Plant Protection)	Monthly Review Meeting of KVKs under NAU jurisdiction"	NAU, Navsari	Offline	05/07/2024
Prof. G. J. Bhimani,	Scientist (Home Science)	Fourth National Seminar of the Society of Krishi Vigyan	KVK, Surat (ISKV)	Online	05-06/07/2024
	All Technical Staff	Sahaj Yoga awareness programme	KVK, Surat	Offline	30/07/2024
Dr. R. K. Patel	Scientist (Plant Protection)	Natural Farming Training Workshop	Gandhinagar, Gujarat	Offline	07/08/2024
Dr. J. H. Rathod, Senior Scientist & Head Dr. R. K. Patel, Scientist (Plant Protection) Shri. S. J. Trivedi, Scientist (Agronomy) Prof. G. J. Bhimani, Scientist (Home Science)	All Technical Staff	Live telecast of Hon'ble Prime Minister programme on the occasion of release of 109 climate resilient and bio fortified crop varieties developed by ICAR	KVK, Surat	Online	11/08/2024
Dr. R. K. Patel	Scientist (Plant Protection)	Launching programme of National Pest Surveillance System (NPSS)	KVK, Surat	Online	15/08/2024
Dr. J. H. Rathod, Senior Scientist & Head Dr. R. K. Patel, Scientist (Plant Protection) Shri. S. J. Trivedi, Scientist (Agronomy) Prof. G. J. Bhimani,6+456+5545 Scientist (Home Science)	+56	6556	Sathvav (Mandvi)	Offline	27/09/2024
Dr. R. K. Patel	Scientist (Plant Protection)	Celebration of "PM Kisan Utsav Diwas"	KVK, Surat	Offline	05/10/2024

Prof. Bhakti B. Panchal	Scientist-Horticulture	10th international conference on Recent Advances in Agriculture, Engineering, Applied & Life Science for Environmental Sustainability (RAAEALSES-2024)	Uttaranchal University, Dehradun, Uttarakhand, India	Offline	23-25/10/ 2024
Dr. R. K. Patel	Scientist (Plant Protection)	Orientation programme of Rabi Krushi Mahotsav-2024	NAU, Navsari	Offline	04/12/2024
Dr. R. K. Patel	Scientist (Plant Protection)	Rabi Krushi Mahotsav-2024	Olpad	Offline	06-07/12/2024
Dr. R. K. Patel	Scientist (Plant Protection)	Agriculture exhibition in the stall of KVK, Surat under "Rabi Krushi Mahotsav-2024"	Olpad	Offline	06-07/12/2024
Dr. R. K. Patel	Scientist (Plant Protection)	7th Meeting of Post Graduate Research Approval Group (PG-RAG) of Crop Protection	NAU, Navsari	Offline	17/12/2024
Dr. J. H. Rathod, Senior Scientist & Head Dr. R. K. Patel, Scientist (Plant Protection) Shri. S. J. Trivedi, Scientist (Agronomy) Prof. G. J. Bhimani, Scientist (Home Science) Mr. Y. D. Patel, Training Asst.	All Technical Staff	Participated and perform duties in the "Mega Krishi Mela and Inauguration of Agrotextile Centre"	NAU, Navsari	Offline	21 to 23/12/2024
Dr. J. H. Rathod, Senior Scientist & Head Dr. R. K. Patel, Scientist (Plant Protection) Shri. S. J. Trivedi, Scientist (Agronomy) Prof. G. J. Bhimani, Scientist (Home Science) Mr. Y. D. Patel, Training Asst.	All Technical Staff	Agriculture exhibition in the stall of KVKs under "Mega Krishi Mela and Inauguration of Agrotextile Centre"	NAU, Navsari	Offline	21 to 23/12/2024
Prof. G. J. Bhimani,	Scientist (Home Science)	SEEG National Seminar-2024	NAU, Navsari	Offline	27-28/12/24

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

Name of the village	**Total No. of families surveyed**	**Key interventions implemented**	**No. of farmers covered in each intervention**	**Change in income (Rs/unit)**	
				Before (base year)	**After (current year)**
Vadia	125	Crops + Horticulture + Animal Husbandry	23	48000	59800
		Crops + Horticulture	21	42000	52200

		Any other model (Crop + AH)	20	32800	44100
Parvat	160	Crops + Horticulture + Animal Husbandry	25	45000	51600
		Crops + Horticulture	21	32000	44000
		Any other model Crops + Animal Husbandry	24	28000	33200

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

S. No.	Name of the programme	No. of villages adopted	Key activities performed	No. of activities carried out	No. of families covered
-	-	-	-	-	-

20. Details of Progress of ARYA Project

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

21. Details of Swachhta Action Plan (SAP)

S. No.	*Types of major Activity conducted- Swachhta Pakhwada, Cleaning, Awareness Workshop, Microbial based Agricultural Waste Management by Vermicomposting etc.*	No. of Programmes conducted	No. of Participants
1	Celebration of *Swachhata* Campaign during Sept. to Octo.,2024	12	314
2	Vermicompost demonstration reg. Microbial-based AgriculturalWaste Management using vermicomposting under SAP	2	53
	Total	14	367

Sr. No.	Name of KVK	Date	Name of Activities	No of VIPs	No. of Participants		
					M	F	T
1	Surat	11/09/2024	Lecture delivered on '*Swachhata* awareness' at *Kani village*	0	0	47	47
2		12/09/2024	Lecture delivered on farm waste for vermicompost preparation at *Goddha village*	0	0	36	36
3		24/09/2024	Lecture delivered on farm waste for FYM preparation at *Vadiya village*	0	0	30	30
4		25/09/2024	Taking *Swachhata* pledge at *Vadiya village*	0	0	32	32
5		27/09/2024	*'Swachhata* awareness' progamme at *Sathavav village*	0	43	62	105
6		01/10/2024	Cleaning of KVK farm by *Shramyogies*	0	4	7	11
7		02/10/2024	*Swachhata Shramdan:* Cleaning of KVK campus by *Shramyogies*	0	4	04	08
8		15/10/2024	*Mahila shibir* on '*Swachhata* awareness' and taking *Swachhata* pledge at *Bhesudla village*	0	0	38	38
9		16/10/2024	Awareness programme on 'Importance of sanitation and hygiene' and taking *Swachhata* pledge at *Bhesudla village*	0	2	40	42
10		17/10/2024	Lecture delivered on farm waste for vermicompost preparation at *Balethi village*	0	2	39	41
11		18/10/2024	Lecture delivered on farm waste for FYM preparation at *Balethi village*	0	0	36	36

Sr. No.	Name of KVK	Date	Name of Activities	No of VIPs	No. of Participants		
					M	F	T
			Total	**0**	**55**	**371**	**426**

22. Books published 2024-25

Title of the Book	Authors	ISBN No	Publisher	Pages No	Description/review of the book (one paragraph)
-	-	-	-	-	-

23. Footfall in KVKs

State	Name of KVK	No. of Footfalls			
		Farmers	Officials	VIPs	Total
Gujarat	Surat	1235	109	8	1352

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

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	Total participants
Farmers & farm women	70	1268	1377	2645
Rural youths	6	26	207	233
Extension functionaries	5	145	85	230
Sponsored Training	4	181	92	273
Vocational Training	2	0	77	77
Total	**87**	**1620**	**1838**	**3458**

2. Frontline demonstrations

Crops/Enterprise	No. of Farmers	Area(ha)	Units/Animals
Oilseeds	162	65	162
Pulses	36	15	36
Cereals	87	39	87
Vegetables	120	42	120
Other crops-Kitchen garden	150	1.5	150
Hybrid crops	0	0	0
Total	**555**	**162.5**	**555**
Livestock & Fisheries	0	0	0
Other enterprises-Women drudgery reduction	100	--	100
Total	**100**	**0**	**100**
Grand Total	**655**	**162.5**	**655**

3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
Technology Assessed			
Crops	4	4	30
Livestock	0	0	0
Various enterprises	0	0	0
Total	**4**	**4**	**30**
Technology Refined			
Crops	0	0	0
Livestock	0	0	0
Various enterprises	0	0	0
Total	0	0	0
Grand Total	**4**	**4**	**30**

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	1935	49786
Other extension activities	272	3095
Total	**2207**	**52881**

5. Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Marketing	Aware-ness	Other enterprise	Total
Surat	Text only	31						31
	Voice only	0						0
	Voice & Text both	0						0
	Total Messages	**31**						**31**
	Total farmers Benefitted	**8947**						**8947**

6. Seed & Planting Material Production

	Quintal/Number	Value (Rs.)
Seed (q)	422.25	2298600
Planting material (No.)	0	0
Bio-Products (kg)	0	0
Livestock Production (No.)	0	0
Fishery production (No.)	0	0

7. Soil, water & plant Analysis

Samples	No. of Beneficiaries	Value (Rs.)
Soil	0	0
Water	0	0
Plant	0	0
Total		

8. HRD and Publications

Sr. No.	Category	Number
1	Abstract	16
2	Workshops	3
3	Conferences	1
4	Meetings	14
5	Trainings for KVK officials	0
6	Visits of KVK officials	2
7	Book published	0
8	Training Manual	0
9	Book chapters	6
10	Booklet	0
11	Leaflets/ Folder/ Pamphlet	0
12	Research papers	6
13	Technical Bulletin	0
14	Popular article	5
15	Lead papers	0
16	Seminar papers	0
17	Extension folder	0
18	Proceedings	1
19	Award & recognition	4
20	On-going research projects	4
21	Other	0