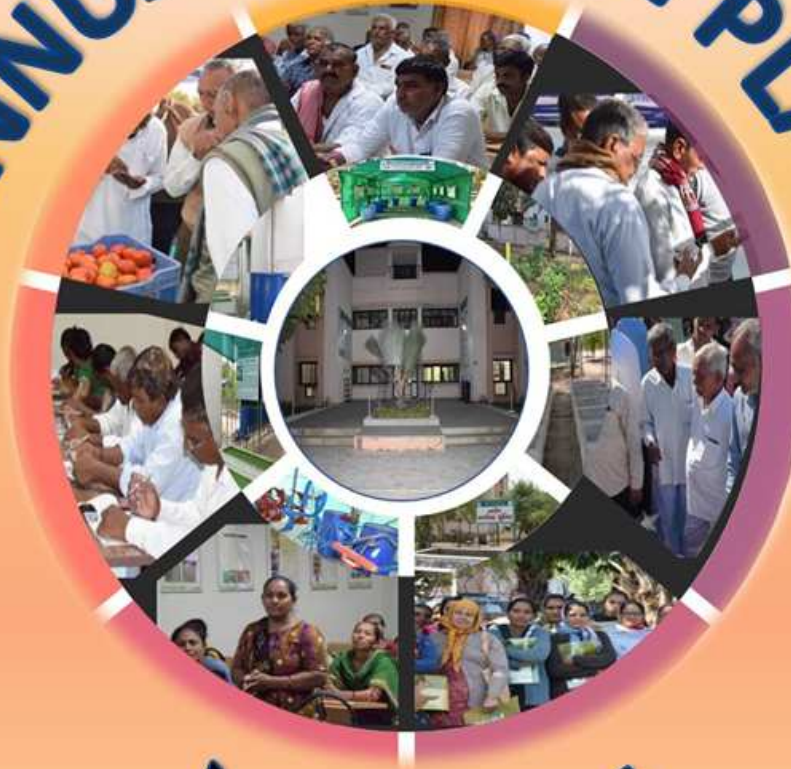




# ANNUAL ACTION PLAN



Year - 2024

**GANPAT UNIVERSITY**  
**KRISHI VIGYAN KENDRA**

**GANPAT VIDYANAGAR-384012**

**TA & DIST - MEHSANA, GUJARAT**

**MOBILE - 7778033471, WEB: KVKMEHSANA.ORG**

**EMAIL - KVKMEHSANA@GANPATUNIVERSITY.AC.IN , KVKMEHSANA@GMAIL.COM,**

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ICAR-ATARI, Pune

DETAILS OF ACTION PLAN OF KVKs DURING 2024  
(1<sup>st</sup> January 2024 to 31<sup>st</sup> December 2024)

1. GENERAL INFORMATION ABOUT THE KVK

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

Address with PIN code	Telephone		E mail	Website address & No. of visitors (hits)
<b>Krishi Vigyan Kendra</b> Ganpat University Mehsana-Gozaria Highway, Ganpat Vidyanagar-384012, Mehsana, Gujarat.	Office	FAX	kvkmehsana@ ganpatuniversity.ac.in	www.kvkmehsana.org 9263
	777803347 1	-		

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

Address	Telephone		E mail	Website address
	Office	FAX		
Mehsana District Education Foundation, Ganpat University Mehsana-Gozaria Highway, Ganpat Vidyanagar -384012, Mehsana, Gujarat	(02762) 286924	(02762) 286080	info@ganpatuniversity.ac.i n, dg@ganpatuniversity.ac.in	www.ganpatuniversity.a c.in

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

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. R A Patel	07778033471	9427692805	rapatel_2003@rediffmail.com

1.4. Year of sanction & type of host organization: 2005, NGO

### 1.5. Staff Position (as on 31<sup>st</sup> December 2023)

Sl. No.	Sanctioned post	Name of the incumbent	Discipline	If Permanent, Please indicate		Date of joining	If Temporary, pl. indicate the consolidated amount paid (Rs./month)
				Current Pay Band	Level		
1	Senior Scientist and Head	Dr.R.A.Patel	Plant Protection	152300	13A	14-12-2018	-
2	Subject Matter Specialist	Dr.S.M.Soni	Animal Husbandry	93800	11	23-01-2006	-
3	Subject Matter Specialist	Shri.B.K.Patel	Crop Production	99500	11	17-02-2006	-
4	Subject Matter Specialist	Shri.M.R.Patel	Extension Education	78500	10	09-04-2012	-
5	Subject Matter Specialist	Mrs.BabitaRam niwas	Home Science	71100	10	07-07-2015	-
6	Subject Matter Specialist	Shri.R.A. Kachhadia	Agricultural Engineering	71100	10	07-07-2015	-
7	Subject Matter Specialist	Mrs.R.G.Barad	Horticulture	56100	10	04-10-2023	-
8	Programme Assistant	Ku.R.R.Patel	Home Science	58600	6	29-08-2009	-
9	Computer Programmer	Shr.A.D.Patel		64100	7	29-05-2006	-
10	Farm Manager	Vacant	-	-	-	-	-
11	Accountant/Sup erintendent	Shri.J.M.Patel		58600	6	01-09-2009	-
12	Stenographer	Shri.G.C.Rathod		44100	5	01-06-2006	-
13	Driver 1	Shri.K.G.Patel		36400	4	25-09-2006	-
14	Driver 2	Shri.H.J.Patel	-	21700	3	26-12-2023	-
15	Supporting staff 1	Shri.M.H.Patel		32000	2	18-05-2006	-
16	Supporting staff 2	Shri.S.M.Patel		32000	2	18-05-2006	-

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

S. No.	Item	Area (ha)
1	Under Buildings	0.85
2.	Under Demonstration Units	1.00
3.	Under Crops	5.00
4.	Horticulture and agroforestry	12.27
5.	Pond	1.00
6.	Others if any	-
	<b>Total</b>	<b>20.12</b>

**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
1.	Administrative Building	ICAR	31/03/2008	550	4017138			
2.	Farmers Hostel	ICAR	17/04/2008	305.00	5657018			
3.	Staff Quarters (6)	ICAR	17/04/2008	397.50	4719570			
4.	Demonstration Units Vermicompost Unit	ICAR	31/03/2008	80	319000			
5	Fencing	-						
6	Rain Water harvesting system	-						
7	Threshing floor	ICAR	01/03/2007	225	122270			
8	Farm godown	ICAR	31/03/2008	60	410000			
9	ICT Lab.	-	-	-	-			
10	Implement Shed	ICAR	31/01/2012	80	300000			
11	Technology Information Unit	ICAR	31/03/2017	-	496176			
12	Azolla Unit	Revolving fund	31/03/2016	30	30,000			
13	Automatic jivamrut unit (Biofertilizer unit )	Revolving fund	31/01/2018	50	1,50,000			
14	Micro Irrigation system	Revolving fund	31/01/2018	-	1,30,000			

15	NADEP compost	ICAR	31/03/2019	40	22500			
16	Hydroponics Unit	Revolving fund	31/03/2019		5000			
17	Green House unit	Revolving fund	31/03/2019		50000			
18	Kitchen Garden	Revolving fund	31/03/2019		13985			

#### B. Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Mahindra Bolero	05/10/2005	5,00,000=00	249184	Very poor
Messy tractor with trolley	23/06/2004	3,50,000=00	14405 hr	Very poor
Motor cycle	13/10/2011	50,000=00	19736	Good

#### C. Equipment & AV aids

Name of the equipment / Implements	Year of purchase	Cost (Rs.)	Present status
-	-	-	-

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

SAC meetings	Date
Scientific Advisory Committee - Meeting	13/02/2024

## 2. DETAILS OF DISTRICT

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

S. No	Farming system/enterprise
1	Groundnut-Wheat -Pearl millet/Sorghum
2	Cotton-Potato-Pearl millet
3	Castor
4	Fennel
5	Pulses/Sesamum –Cumin -Pearl millet
6	Pulses-Mustard-Pearl millet/Sorghum
7	Pulses-Fennel
8	Cotton-Potato/Wheat

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

#### a. Agro-climatic Zone

Sl. No.	Agro-climatic Zone	Characteristics
1	IV (North Gujarat)	Semi arid and subtropical

#### b. Agro ecological situations

S. No.	Agro ecological situation	Characteristics
1	Alluvial sandy soils with medium rain fall	Sandy and loamy sand soil
2	Alluvial sandy soils with low rain fall	Sandy loam soil
3	Alluvial sandy loam soils with medium rain fall	Sandy loam soil
4	Medium black ill-drained soils with medium rainfall	Sandy, Clay loam and clay soil

### 2.3. Soil Types

S. No	Soil type	Characteristics	Area in ha
1	Medium black	Medium water holding capacity Medium permeability	64500
2	Sandy loam	Retain more water and nutrient than sandy soil and black soil	259700
3	Sandy	Low water holding capacity High permeability	28900
4	Saline / salt affected	Salt accumulat on soil surface, Water logging condition, Crack formation during summer season, It contain excess neutral soluble salts chiefly chlorides and sulphate of Na, Mg and Ca	81900
		<b>Total</b>	435000

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

(Area: “00” ha, Prod. : “00” MT, Yield : kg/ha)

SR. No.	Crops	2018-19			2019-20			2020-21			2021-22		
		AREA	PROD.	YIELD	AREA	PROD.	YIELD	AREA	PROD.	YIELD	AREA	PROD.	YIELD
1	Rice Irrigated	30.10	73.71	2448.68	40.30	78.53	1948.53	55.01	120.51	2190.67	51.79	118.56	2289.33
	Rice summer	0.80	2.08	2600.00	1.70	5.01	2949.67	1.73	5.19	2999.01	1.89	5.53	2923.99
2	Bajara Kharif	22.90	33.99	1484.15	30.15	51.50	1708.25	35.16	41.16	1170.68	34.02	60.98	1792.50
	Bajara summer	95.80	307.46	3209.40	104.25	338.58	3247.79	103.16	273.29	2649.19	90.16	276.41	3065.80
3	Maize kharif	0.28	0.50	1770.09	1.97	2.95	1497.34	3.63	5.52	1520.85	3.10	6.04	1949.53
	Maize rabi	0.00	0.00	0.00	0.80	1.82	2276.00	0.65	1.48	2273.01	2.05	5.19	2529.81
	Maize summer	0.00	0.00	0.00	0.35	0.73	2078.00	0.00	0.00	0.00	0.00	0.00	0.00
4	Moong kharif	22.89	8.13	355.00	19.76	7.66	387.60	21.41	8.82	412.04	27.27	10.34	379.00
	Moong Summer	3.35	3.96	1181.00	2.73	2.85	1044.95	2.05	2.35	1147.78	1.76	2.33	1324.79
5	Math kharif	3.42	0.28	82.00	3.35	1.55	461.82	6.18	3.22	521.46	5.49	2.42	440.62
6	Udad kharif	68.92	46.66	677.00	71.92	32.98	458.52	109.75	64.91	591.45	190.20	76.70	403.25
	Udad summer	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	900.00	0.00	0.00	0.00
7	Tur kharif	0.86	1.04	1208.87	0.20	0.20	990.54	0.92	1.09	1185.81	1.29	1.50	1159.84
8	Groundnut kharif				139.79	390.09	2790.51	241.93	783.58	3238.86	217.03	661.20	3046.59
	Groundnut summer	11.16	22.87	2049.00	20.49	50.12	2446.30	18.68	38.11	2040.00	12.77	28.29	2215.00
9	Castor	871.84	1929.37	2212.99	977.76	2336.69	2389.84	813.95	1960.38	2408.48	828.58	2049.85	2473.93
10	Sesamum kharif	15.18	6.36	418.95	16.58	7.21	434.77	17.60	4.00	227.00	18.41	6.09	330.56
	Summer	3.14	1.51	480.00	5.36	2.95	550.00	3.50	1.75	500.00	7.13	3.85	540.00
11	Soyabean	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.34	1357.46	0.32	0.52	1630.69
12	Cotton irrigated	346.73	1450.35	711.10	382.06	1225.85	545.45	356.02	1372.85	655.54	322.46	1208.21	636.97
13	Tobacco kharif	0.70	1.29	1849.31	0.50	0.98	1965.67	0.08	0.16	2054.18	0.00	0.00	0.00
	Tobacorabi	127.00	215.90	1700.00	162.00	562.25	3470.65	179.10	608.36	3396.78	180.62	618.50	3424.29
14	Guar	111.57	78.10	700.00	138.80	99.39	716.06	137.05	123.84	903.61	122.50	99.32	810.81
15	Wheat irrigated	588.43	1988.33	3379.05	686.29	2379.13	3466.65	717.51	2432.16	3389.73	681.27	2243.28	3292.80
16	Gram	0.00	0.00	0.00	0.80	1.82	2276.00	0.65	1.48	2273.01	11.35	21.65	1907.62
17	Mustard	139.45	239.65	1718.56	126.78	245.00	1932.47	153.34	299.77	1954.93	219.35	468.37	2135.26

Source :www.agri.gujarat.gov.in



**Area, production and productivity of Horticultural crops ( 2022-23)**

Crop	Area (ha)	Production (MT)	Productivity (Mt/ha)
Mango	960	4992	5.20
Chiku	1045	9352	8.95
Citrus	13450	188300	14.00
Ber	1785	17850	10.00
Guava	940	9400	10.00
Pomegranate	900	10800	12.00
Date palm	16	80	5.00
Papaya	650	31265	48.10
Custard apple	75	578	7.71
Aonla	1165	9320	8.00
Potato	10572	317000	29.98
Onion	263	5523	21.00
Brinjal	3200	52200	16.31
Cabbage	2250	39915	17.74
Okra	2250	31500	14.00
Tomato	6300	196434	31.18
Cauliflower	2050	41000	20.00
Clusterbean	3600	38880	10.80
Cowpea	1000	10000	10.00
Cucurbits	2005	31300	15.61
Cumin	164	150	0.91
Fennel	8241	18130	2.20
Dry Chilli	1250	2375	1.90
Fenugreek	611	2283	2.10
Ajwain	5377	5915	1.10
Dilseed	1023	1228	1.20
Garlic	121	715	5.91
Coriander	77	108	1.40
Flowers	190	1742	9.17
Isabgul	27	22	0.81

*Source: Dept. of Horticulture, Mehsana, Gujarat*

## 2.5. Weather data (2023)

Month	Rainfall (mm)	Temperature <sup>0</sup> C	
		Minimum	Maximum
January-2023	2.00	13	28
February-2023	0.00	16	34
March-2023	14.3	22	38
April-2023	11.4	23	39
May-2023	3.6	27	41
June-2023	227.15	28	37
July-2023	402.15	27	33
August-2023	49.55	26	32
September-2023	159.24	26	33
October-2023	1.77	24	34
November-2023	10.7	21	32
December-2023	0.1	17	29

Source :Worldweatheronline.com/mehsana

## 2.6. Production and productivity of livestock, Poultry, Fisheries etc in the district (2016-17)

Category	Population	Production	Productivity
<b>Cattle</b>			
<i>Crossbred</i>	3,24,000		9.51 kg
<i>Indigenous</i>			4.50 kg
<b>Buffalo</b>	4,88,000		5.27 kg
<b>Sheep</b>	11,000	12,740 kg (wool)	1.39 kg (wool)
<i>Crossbred</i>			
<i>Indigenous</i>			
<b>Goats</b>	1,12,000		0.50 kg
<b>Pigs</b>			
<i>Crossbred</i>			
<i>Indigenous</i>			
<b>Horse</b>	976		
<b>Donkey</b>	170		
<b>Poultry</b>	1,57,000		
<b>Camel</b>	3410		
Hens		1,20,00,000 no. of eggs	
<i>Desi</i>	17,000		117
<i>Improved</i>	1,41,000		288
Ducks			
Turkey and others			
Fish (Reservoir)			

\* Bulletin of Animal Husbandry and Dairying Statistics, 2021-22

## 2.7. Details of Operational area / Villages

Sr. No .	Taluka	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Visnagar	Visnagar	Amarapura, Ghagret, Kuvasana, Saduthala, Sunsi, Denap, Kansarakui	Castor, Cotton, Tobacco, Wheat, Pearl millet , Sorghum, Mustard, Lucerne, Fennel, Cumin, Chilli, Potato, Pomegranate, Acid lime, Ber, Guava, Watermelon, Brinjal, Paddy, Sesamum, Clusterbean, Tomato, Sapota, Aonla, Green gram, mango, Drumstick , groundnut , ajwain, oil seed crops, horticulture crops, pulses crops,	Less land holding No use of high yielding and resistant varieties No use of micronutrients Acute shortage of irrigation water Unawareness about pest identification and disease diagnosis Shortage of organic manures Poor quality of manures Imbalance chemical fertilizers application Poor physical characteristic of soils Low availability of green fodder Crop damaged by wild animals Low market price of crop produced Unhealthy raising of vegetables seedling Low productivity of livestock Not follow post harvest management Found health weakness in Girls and women Improper Orchard management High cost of cultivation Labour scarcity High cost of animal feeds Unawareness about animal feed management Found storage loss in	Integrated Crop Management Integrated Nutrient Management Integrated Pest Management Integrated Disease Management Micro Irrigation System Disease Management in dairy animal Feed Management in dairy animals Dairy Management Breeding management in dairy animals Soil fertility management Nursery Management Fodder Production Production of Organics Inputs Production and Management technology of horticultural crops Value Addition Low Cost High Nutrient Diet Storage loss Minimization Technology Women and Child Care Household Food Security by kitchen garden Farm Mechanization Group Dynamics Entrepreneurship Development Local specific Drudgery Reduction Technology Organic farming Seed production Repair and maintain of farm machineries and implements
2	Mehsana	Mehsana	Bhasariya, Deloli, Divanpura, Kadvasan, Kherva, Kukas, Rampura, Virampura, Virta, Hinglaspura, Mevad, Jagudan, Bhakadia, Palavasana, Dediya, Piludara, Buttapaldi, Davada, Kharsada, Dhadhusan, Mohanpura, Boriavi			
3	Kadi	Kadi	Vadu, Anandpura, Kaiyal, Mathasur			
4	Vijapur	Vijapur	Anandpura, Bamanva, Deriya, Kharod, Mahadevpura, Rampur kot, Ransipura, Sankapura, Vajapur			
5	Satlasana	Satlasana	Umari, Vaghar, Vasda			

6	Bechraji	Bechraji	Gambhu, Kanoda, Asjol, Bariyaf, Venpura, Adiwada	Mothbean , Fodder crops, Poultry , livestock, farm implement s, home science, organic farming, women empower ment, soil health, capacity building, kitchen garden, cattle	grain Poor socio economic conditions Lack of skill Unawareness about balance diet in BPL families Indiscriminate use of pesticides Less shelf life of fruits and vegetables Anaemia in adolescent girls and farm women Lack of knowledge about secondary agriculture Use of improved farm implements are not affordable Heavy infestation of nematodes in fruits and vegetable crops Low productivity of major crops Problematic soil Disease infestation due to heavy irrigation High mortality rate in calf Indiscriminate use of fungicides Unawareness about seed treatment deficiency of micro nutrients Low fodder yield Improper housing Unawareness about vaccination and deworming Low profitability High cost of fuel Less use of ICT tools Lack of knowledge about market price of product Unawareness about nutri-rich crops	Varietal evaluation Production of small tools and implements Production of feed and fodder Management of problematic soil Mobilization of social capital Leadership development Vermicompost Use of bio fertilizer Post harvest technology Soil and water testing Soil and water conservation Minimization of nutrient loss in processing Designing and development of low / minimum cost diet WTO and IPR issue Use of plastics in farming practices Group dynamics
7	Vadnagar	Vadnagar	Kesimpa, Sundhiya			
8	Kheralu	Kheralu	Dedasan, Fatehpura, Chotia, Fatehpura, Malharpura			
9	Unjha	Unjha	Amudh, Lakshmipura (Aithor), Ranchhodpura, Tundav, Karli, Unjha			
10	Jotana	Jotana	Santhal, Martoli			

## 2.8. Priority thrust areas:

Crop/Enterprise	Thrust area
Oilseed crop - Groundnut Cotton, Castor, Sesamum, Mustard	Integrated Crop Management Integrated Nutrient Management Integrated Disease Management Integrated Pest Management Productivity enhancement in field crops Weed management Micro-irrigation system Varietal evaluation
Pulse crop - Greengram, Blackgram, chickpea	Integrated Crop Management Integrated Nutrient Management Integrated Disease Management Seed Production Integrated Pest Management Weed management
Fodder Bajra and Sorghum	Integrated Crop Management Integrated Nutrient Management Varietal evaluation
Potato, Chilli and Tomato	Integrated Disease Management Integrated Pest Management Integrated Crop Management Integrated Nutrient Management Value Addition Nursery Raising Production of low volume and high value crops Cultivation of fruits Micro-irrigation system
Wheat	Integrated Crop Management Integrated Nutrient Management Integrated Pest Management Varietal evaluation
Spice crops - Fennel, Fenugreek, Ajwain, Cumin	Integrated Nutrient Management Integrated Disease Management Integrated Pest Management Micro Irrigation System Processing and Value Addition Production and Management Technology Post Harvest Technology Production of small tools and implements
Acid Lime, Drumstick, Watermelon and Guava	Production and Management Technology Micro Nutrient Application Integrated Disease Management Integrated Pest Management Value Addition Micro Irrigation System Rejuvenation of old orchard Integrated farming system Soil and water conservation Use of plastic in farming practices Post Harvest Technology
Kitchen Garden	House hold Food Security by kitchen gardening and nutritional gardening
Farm Implements	Local Specific Drudgery Reduction Technology

	Farm Mechanization Production of small tools and implements Repair and maintenance of farm machinery and implements Installation and maintenance of MIS Post-harvest technology
Cattle	Dairy Management Feed Management Disease Management Production of livestock feed and fodder Dairying Management in farm animals
Soil Health	Production of Organic Inputs Soil Fertility Management Management of problematic soil Soil and water testing Soil and water conservation
Women Empowerment & Home Science	Income Generation Activities for empowerment of rural women Storage loss minimization techniques Women and child care Value Addition Design and development of low/minimum cost diet Location specific drudgery reduction technologies Design and development for high nutrient efficiency diet
Capacity Building	Group Dynamics Entrepreneurial development of farmers/youths Mobilization of social capital Leadership development Formation and management of SHGs WTO and IPR issue
Natural Farming	Vermi Compost production Production of bio-control agents and bio-pesticides Organic manure production Bio-fertilizer production Production of organic inputs Resource conservation technologies PrakrutikKheti
Millets crops	Integrated Crop Management Integrated Nutrient Management Integrated Disease Management Integrated Pest Management Value addition

### 3. TECHNICAL PROGRAMMES

#### 3.1. A. Details of targeted mandatory activities by KVK

OFT		FLD	
(1)		(2)	
Number of OFTs	Number of Farmers	Area (ha)	Number of Farmers
6	60	87.4	538
Training		Extension Activities	
(3)		(4)	
Number of Courses	Number of Participants	Number of activities	Number of participants
89	2060	132	3455

Seed Production (Qtl.)	Planting material (Nos.)	Fish seed prod. (Nos)	Soil Samples
(5)	(6)	(7)	(8)
38	24000	0	250

### 3.1. B. Operational areas details proposed during 2024

Sr.No.	Major crops & enterprises being practiced in cluster villages	Prioritized problems in these crops/ enterprise	Extent of area (Ha/No.) affected by the problem in the district	Names of Cluster Villages identified for intervention	Intervention (OFT, FLD, Training, extension activity etc.)*
1	Blackgram	False sowing method Injudicious use of fertilizers No use of bio-fertilizers as well as micronutrients	2500 ha	Mehsana district	OFT, FLD, Training and extension activity
2	Chickpea	Lack of knowledge about pests and diseases identification and management False method and	450 ha	Mehsana district	FLD, Training and extension activity
3	Greengram	inadequate dose of weedicides and pesticides use High cost of cultivation No use of high yielding and resistance variety Poor socio-economic condition Lack of skill	1000 ha	Mehsana district	Training and extension activity
4	Castor	Don't use recommended agronomical practices No use of high yielding and resistance variety	72000 ha	Mehsana district	FLD, Training and extension activity
5	Mustard	Injudicious use of fertilizers No use of bio-fertilizers and micronutrients as well as bio pesticides.	8000 ha	Mehsana district	OFT, FLD, Training and extension activity
6	Groundnut	Unawareness about plant protection measures High cost of cultivation Poor socio-economic condition	7000 ha	Mehsana district	FLD, Training and extension activity
7	Sesamum	Lack of skill, Improper sowing method	500 ha	Mehsana district	Training and extension activity
8	Wheat	Use old variety Unawareness about termite management False method of seed treatment Injudicious use of fertilizer Improper sowing method	25000 ha	Mehsana district	FLD, Extension activity, Training



9	Chilli	Low yield Unawareness about bio-pesticides Use local variety	600 ha	Mehsana district	Extension activity, Training
10	Fennel	Low yield use old variety No use of bio-pesticides Unawareness about pest	3500 ha	Mehsana district	FLD, Extension activity, Training
11	Cumin	High incidence of blight False method and inadequate dose of pesticides	150 ha	Mehsana district	OFT, FLD, Extension activity, Training
12	Cotton	Low yield Indiscriminate use of pesticides Unawareness about pest and disease management False sowing method High incidence of pink ball worm Use local variety	15000 ha	Mehsana district	FLD, Extension activity, Training
13	Watermelon	Low yield, low market price, high evaporation rate, deep ground water tabel, poor quality of water	70 ha	Mehsana district	FLD, Training, Extension activity
14	Fruits crops	Low yield Unawareness about pest and disease management Improper orchard management Heavy infestation of nematode Not follow postharvest management Lack of skill High cost of cultivation Deficiency of micro-nutrient Low market price High evaporation rate of soil moisture Deep ground water table Poor quality of water	15000 ha	Mehsana district	Training, OFT, Extension activity
15	Spice crops	Low yield Unawareness about pest and disease management Heavy infestation of nematode Not follow postharvest management Lack of skill High cost of cultivation Deficiency of micro-	7000 ha	Mehsana district	Training, extension activities

		nutrient Low market price Use local variety			
16	Millet crops	Low production Low market price No Awareness about nutr-rich crops	11000 ha	Mehsana district	Training, FLD, OFT, Extension activity
17	Natural farming	Poor soil health Low production	20000 ha	Mehsana district	Training, FLD, Extension activity
18	Vegetable Crops	Low yield Unawareness about pest and disease management Heavy infestation of nematode Not follow postharvest management Lack of skill High cost of cultivation Deficiency of micro- nutrient Low market price	10000 ha	Mehsana district	Training, extension activities
19	Fodder crops	Low fodder production High cost of animal feed High cost of cultivation Use local variety	20000 ha	Mehsana district	FLD, OFT Training and extension activity
20	Livestock (Bypass protein)	Low milk production in lactating buffalo	1 lakh no.	Mehsana district	FLD, Training and extension activity
21	Livestock (Fenbendazole)	High incidence of ectoparasitic infestation	1 lakh no.	Mehsana district	FLD, Training and extension activity
22	Livestock (Chelated Mineral Mixture)	Low milk production in lactating buffalo	1 lakh no.	Mehsana district	FLD, Training and extension activity
23	Livestock (Probiotic)	Low milk production in lactating buffalo	1 lakh no.	Mehsana district	FLD, Training and extension activity
24	Livestock	Low productivity of livestock Poor feed and fodder management Repeat breeding High cost of animal feed Unawareness about vaccination and deworming High incidence of ectoparasitic infestation	1 lakh no.	Mehsana district	OFT, Training, Extension activity
25	Wheel hoe	Poor adoption of farm mechanization	-	Mehsana	FLD, Training and extension

		Labour scarcity		district	activity
26	Revolving milking stool and stand	High drudgery More time require	-	Mehsana district	FLD, Training and extension activity
27	Secutter	High drudgery More time require	-	Mehsana district	FLD, Training and extension activity
28	Dibbler	High drudgery Poor germination	-	Mehsana district	FLD, Training and extension activity
29	Fodder harvester	High drudgery More time require	-	Mehsana district	FLD, Training and extension activity
30	Kitchen garden	Poor house hold food security	-	Mehsana district	FLD, Training and extension activity
31	Home Science	Low market price of crop produce Lack of skill Less self-life of fruits and vegetables Unawareness about balance diet Poor socio-economic condition Unawareness about Nutri rich crop	-	Mehsana district	Training, OFT, FLD, Extension activity
32	Farm Mechanization	Poor adoption of farm mechanization Labour scarcity Poor Socio-economic condition Low land holding capacity Poor adoption of MIS	-	Mehsana district	Training, FLD, OFT, Method demonstration, Extension activity

\* Support with problem-cause and interventions diagram

### 3.2. Technologies to be assessed

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Spices	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation		1	1				1			3
Seed / Plant production										
Weed Management										
Integrated Crop Management										
Integrated Nutrient Management										
Integrated Farming System										
Mushroom cultivation										
Drudgery reduction										
Farm machineries	1									1
Value addition	1									1
Integrated Pest Management										
Integrated Disease Management										
Resource conservation technology										
Small Scale income generating enterprises										
Post-harvest technology										
<b>TOTAL</b>	<b>2</b>	<b>1</b>	<b>1</b>				<b>1</b>			<b>5</b>

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

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Wormi culture	Fisheries	TOTAL
Evaluation of Breeds								
Nutrition Management								
Disease Management								
Value Addition								
Production and Management								
Feed and Fodder	1							1
Small Scale income generating enterprises								
<b>TOTAL</b>	<b>1</b>							<b>1</b>

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

S. No	Crop/enterprise	Prioritized problem	Title of intervention	Technology options	Source of Technology	Name of critical input	Qty per trial	Cost per trial	No. of trial	Total cost for the intervention (Rs.)	Parameters to be studied	Team members
1	Cumin	Low yield of cumin	Assessment of new release GC-5 variety	Local cultivar	Farmer practice	Local cultivar	–	–	10	10000	Yield, BCR	Mr.R.A. Kachhadia
				Recommendation GC-4 (2004)	Seed Spices Research Station, Jagudan, SDAU, S.K. Nagar	Seed GC-4 variety	1.5 kg	500				
				Recommendation-GC-5 (2019)	Seed Spices Research Station, Jagudan, SDAU, S.K. Nagar	Seed GC-5 variety	1.5 kg	500				
2	Blackgram	Low yield of Blackgram	Assessment of new release GU-4 variety	Local cultivar - GU-1	SDAU, S.K. Nagar	Seed GU-1 variety	–	–	10	15000	Yield, Test, weight BCR	Mr. B. K. Patel
				Recommendation-GU-2 (2018)	JAU, Junagadh	Seed GU-2 variety	2 kg	500				
				Recommendation-GU-4 (2021)	AAU, Anand	Seed GU-4 variety	2 kg	500				
3	Mustard	Low yield of mustard	Assessment of variety GM-6 (Banas Sona)	Local cultivar	Farmer practice	Local	–	–	10	2000	Yield, Test, weight, BCR	Mr. B. K. Patel
				Recommendation - GDM-4	SDAU, S.K. Nagar	Seed GDM-4 variety	3 kg	100				
				Recommendation-GM-6	SDAU, S.K. Nagar	Seed GM-6 variety	3 kg	100				

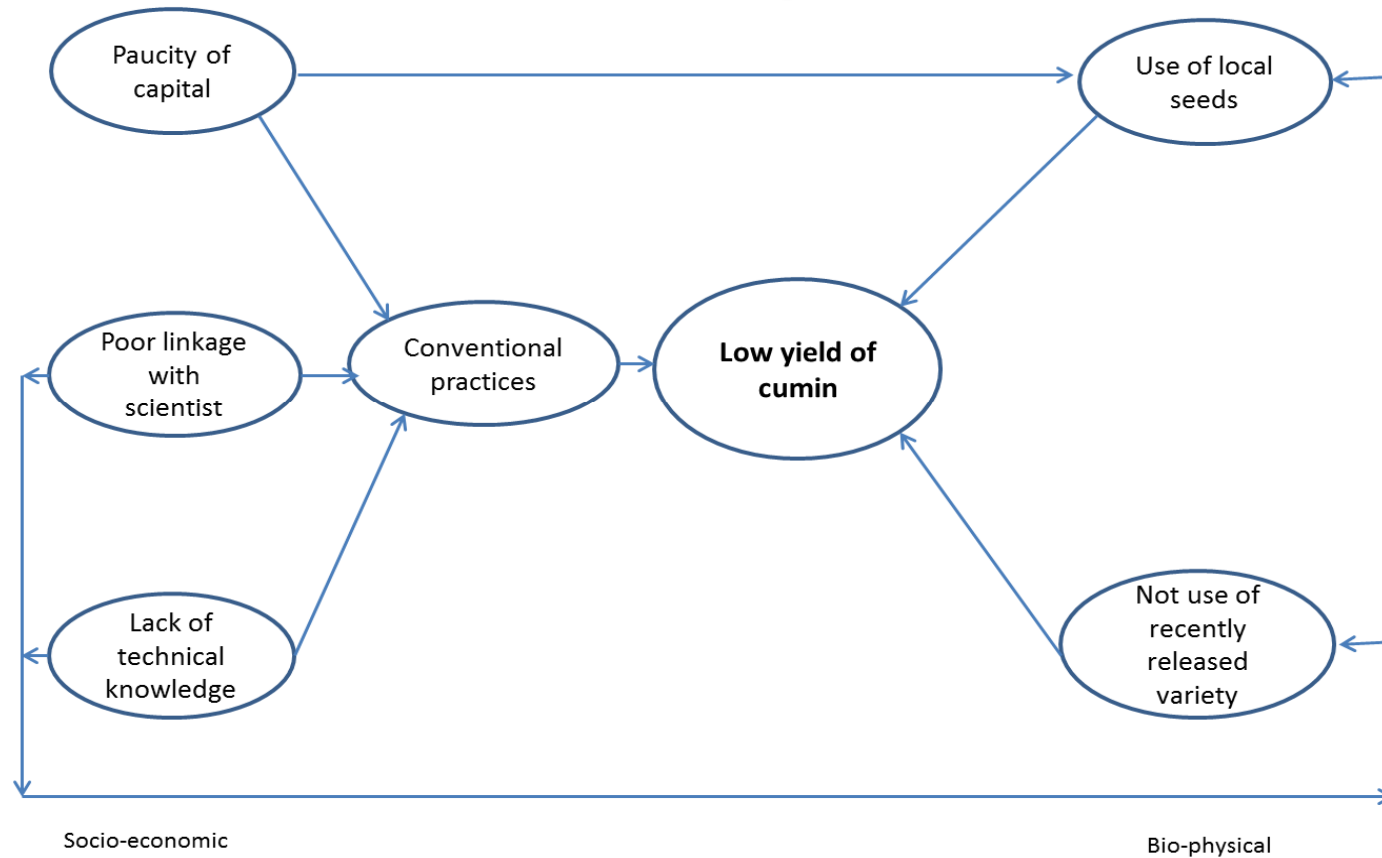
4	Fodder Sorghum	Low yield of fodder sorghum	Assessment of new release banasachari variety	Local cultivar	Farmer practice	Local cultivar	—	—	10	14000	Fodder yield, BCR	Dr. S.MSoni
				Recommendation CSV 46 F (2020)	Navsari Agriculture University, Navsari	Seed of CSV 46 F	10 kg	700				
				Recommendation- Banas Chari (2021-22)	SDAU, S.K. Nagar	Seed Banaschari variety	10 kg	700				
5	Bajara biscuit	Bajara flour is not used in making biscuit	Assessment of different preparation method of bajara biscuit	No use of bajara flour in biscuit	Farmer practice	-	-	-	10	5000	Durability, taste	Mrs. Babita Ram niwas
				Bajara flour + Ghee + Sugar + Milk Powder + Soda + Ammonium bicarbonate + milk / water	AAU, Anand	Bajara flour + Ghee + Sugar + Milk Powder + Soda + Ammonium bicarbonate + milk / water	1 kg	200				
				Bajara flour + wheat flour + milk + baking powder + vanilla essence + sugar + butter	ICAR	Bajara flour + wheat flour + milk + backing	1 kg	200				

						powder + vanila essence + sugar + butter						
6	Fodder Harvester	Back pain and discomfort at the time of fodder harvesting	Assessment of hand operated fodder harvester in fodder crop	Sickle	Farmer practices	Sickle	1 no.	-	10	15000	Labour saving	Mr.R.A. Kachhadia
				Fodder harvester	CAET, Dediyapada, NAU (2021)	Fodder harvester	1 no.	1500				

### OFT -1 : Assessment of new release GC-5 variety

**OFT : Low yield of cumin**

### Problem cause diagram

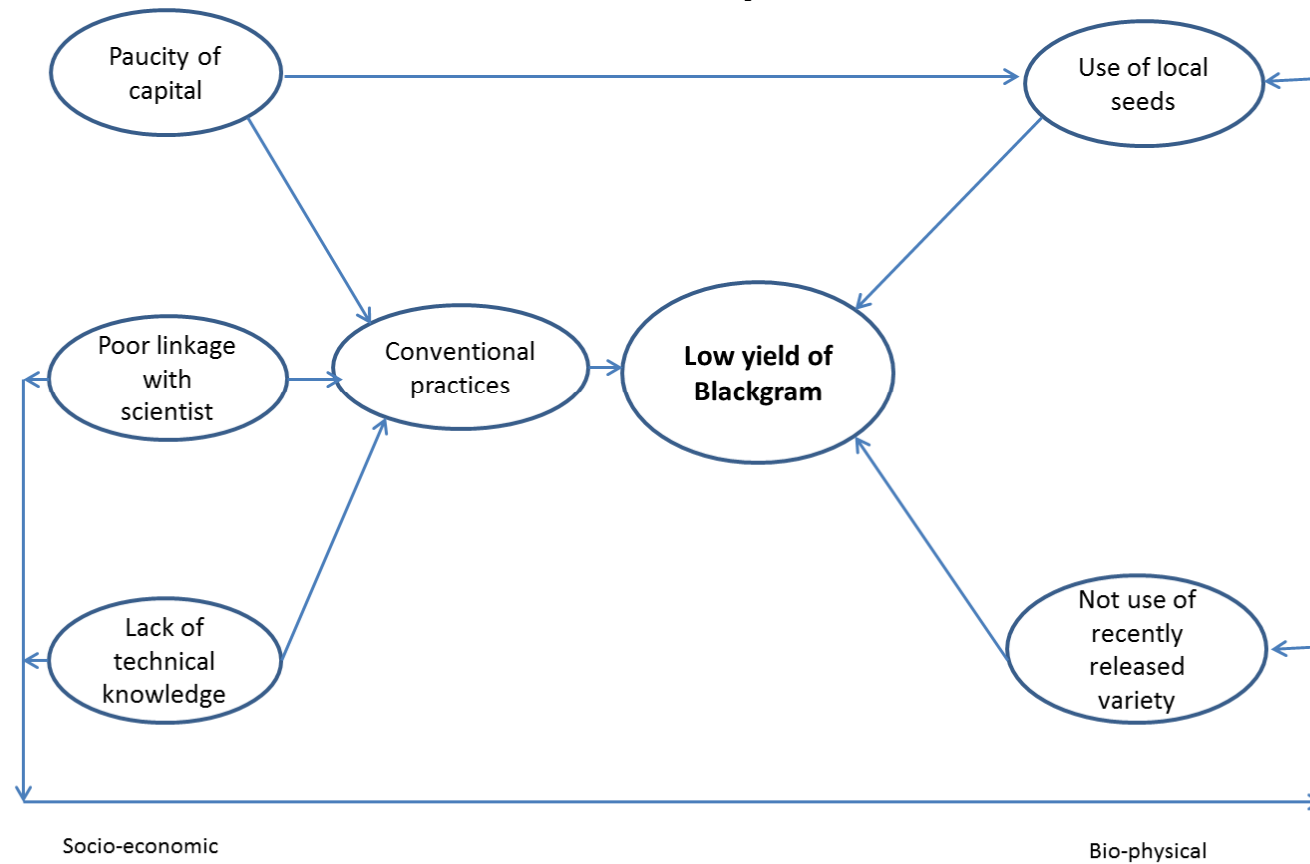




## OFT -2 :Assessment of new release blackgram GU-4 variety

### OFT : Low yield of Blackgram

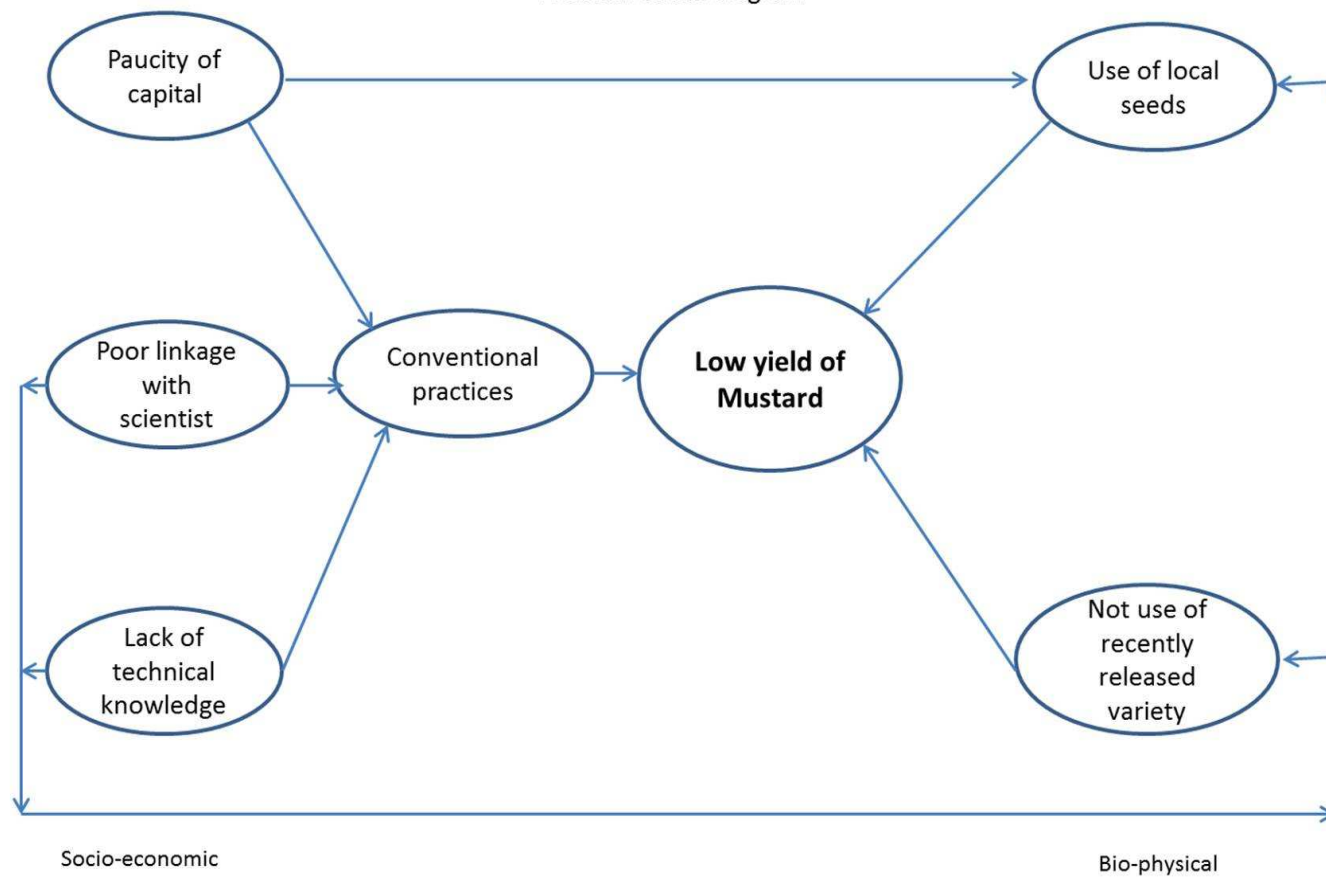
Problem cause diagram



**OFT -3 : Assessment of variety GM-6 (Banas Sona)**

**OFT : Low Yield of Mustard**

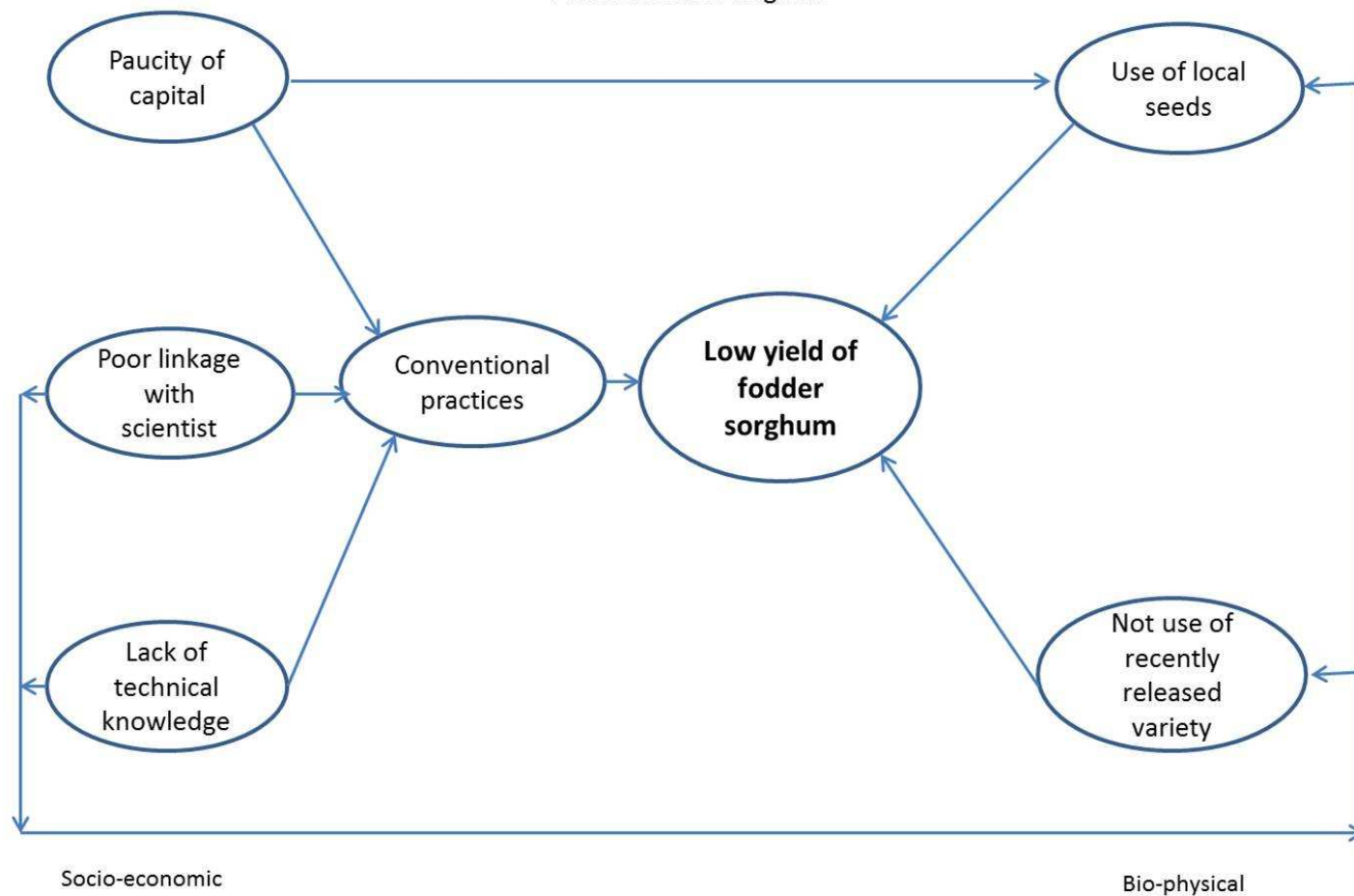
Problem cause diagram



#### OFT 4 - Assessment of new release banasa chari variety

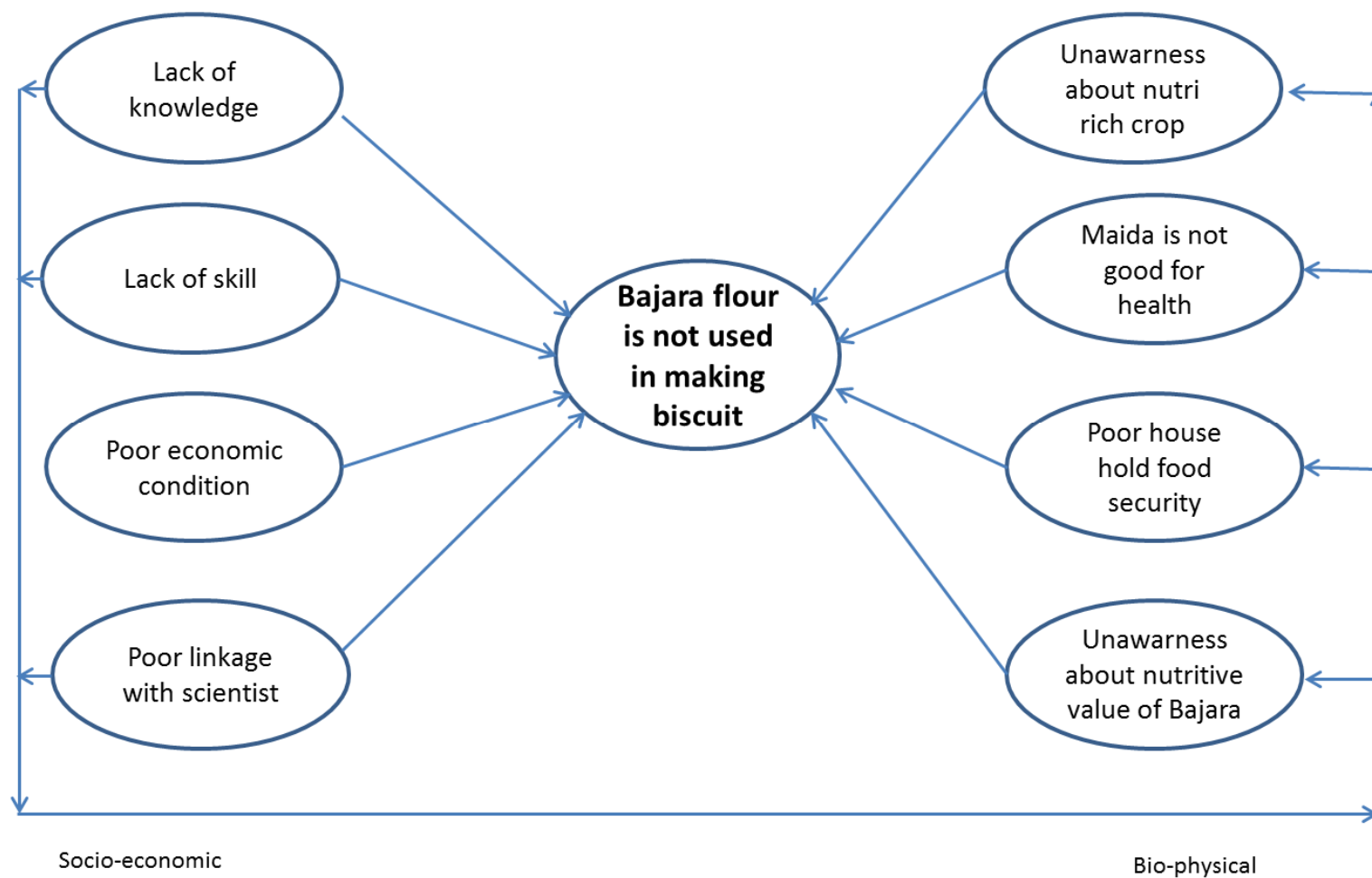
##### OFT : Low yield of fodder sorghum

Problem cause diagram

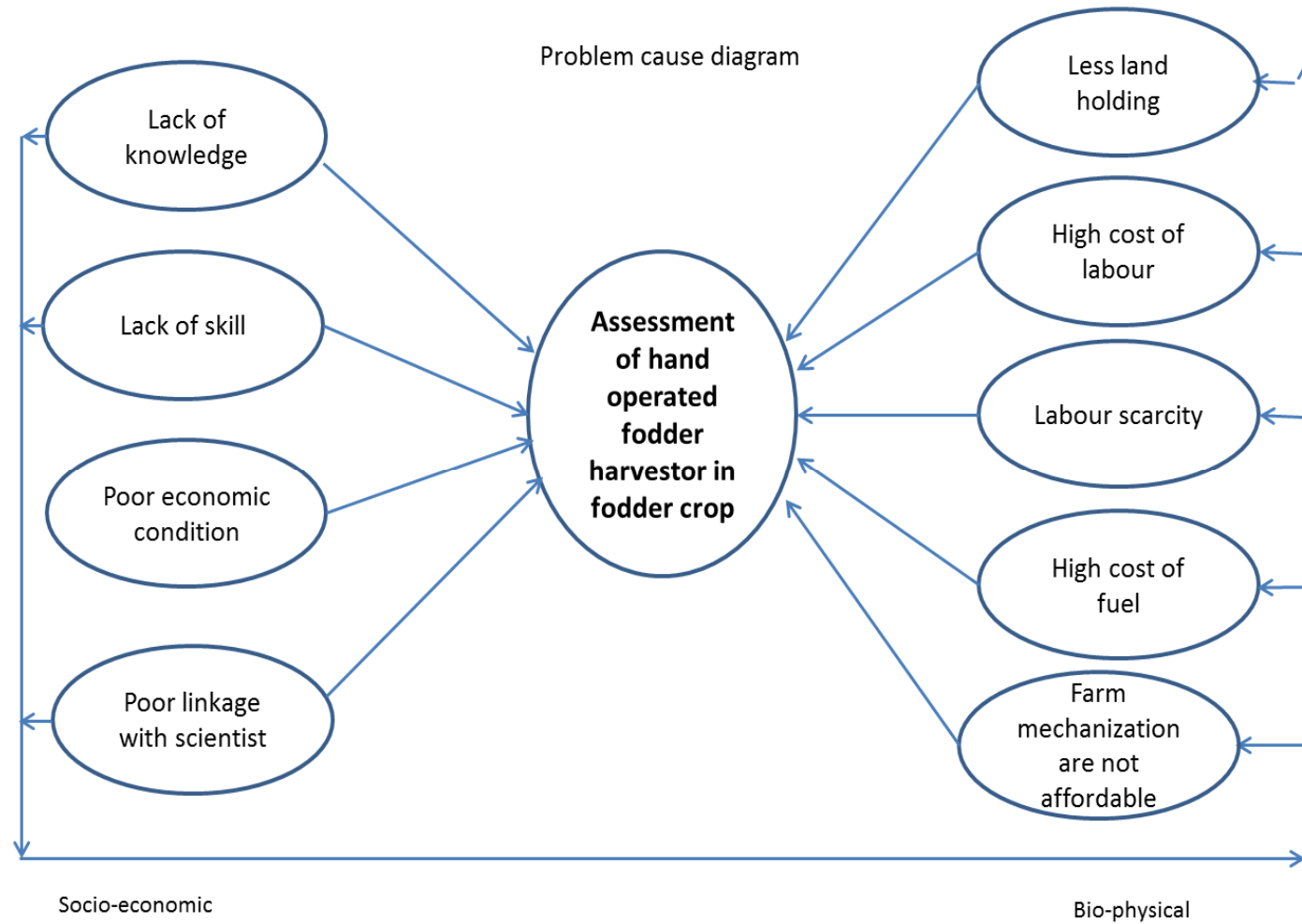


**OFT -5 Assessment of different preparation method of bajara biscuit**

Problem cause diagram



# OFT -6: Assessment of hand operated fodder harvester in fodder crop



### 3.3 Frontline Demonstrations

#### A. Details of FLDs to be organized -

Sl. No.	Crop	Variety	Thematic area	Technology for demonstration	Critical inputs with cost(Rs)		Season and year	Area (ha)	No. of farmers/ demon.	Parameters identified
	CFLD – OILSEED									
1	Groundnut	GJG-24	ICM	ICM	Sulphur, metarhizium, Trichoderma, PSB culture, Rhizobium culture, Beauveriabassiana,SNPV, HNPV, Neem Oil,	1,20,000	Kharif-2024	10	25	Yield, BCR
2	Castor	GCH-8	ICM	ICM	Seed of GCH-8, Sulphur, PSB culture, Azotobactor culture, Quinalphos, Beauveria bassiana, Neem Oil, Trichoderma,	50,000	Kharif-2024	10	25	Yield, BCR
3	Mustard	GDM-6	ICM	ICM	Seed of GDM-4, Sulphur, PSB culture, Azotobactor culture, Pendimethalin, Beauveria bassiana, Neem Oil, Yellow Sticky Trap	60,000	Rabi-2024	10	25	Yield, BCR
	CFLD – Pulses									
4	Blackgram	GU-2	ICM	ICM	Seed GU-2, Sulphur, Rhizobium culture, PSB culture, Beauveriabassiana, Neem Oil, Pendimethalin,	90,000	Kharif-2024	10	25	Yield, BCR
5	Chickpea	GJG-5	ICM	ICM	Seed GJG-5, HNPV, Pheromone traps, SNPV, PSB, Rhizobium, Beauveria bassiana, Neem Oil	90,000	Rabi-2024	10	25	Yield, BCR
	Other FLD									

6	Wheat	GW-513	ICM	Varietal evaluation	Seed	32,000	Rabi-2024	10	25	Yield, BCR
7	Cotton	-	IPM	IPM	Pheromone traps, Neem oil, <i>Beauveria bassiana</i>	30,000	Kharif-2024	10	25	Pest incidence, Yield, BCR
8	Fennel	-	IPM	IPM	Neem oil, <i>Beauveria bassiana</i>	15,000	Kharif-2024	10	25	Pest incidence, Yield, BCR
9	Pearlmillet	GHB 1129	ICM	ICM	Seeds, Zinc sulphate	12,000	Kharif-2024	5	12	Pest incidence, Yield, BCR
	Organic Farming FLD									
10	Natural Farming	Jivamrut	Natural Farming	Jivamrut, Nimastra	Plastic Drum, Jaggery, Pulse flour	24,000	Summer-2024	2.4	6	-
					<b>Total</b>	<b>5,23,000</b>		<b>87.4</b>	<b>218</b>	

## Sponsored Demonstration

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

### B. Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	20	-	600
2	Farmers Training	20	-	500
3	Media coverage			
4	Training for extension functionaries			

### C. Details of FLD on Enterprises

#### a. Farm Implements

Name of the implement	Crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators
Secutter	Castor	Rabi-2023	30	-	Secutter, Cost : 3,600/-	Labour saving
Wheelhoe	Cumin	Rabi-2023	10	-	Wheelhoe Cost : 30,000/-	Labour saving
Dibbler	Cotton	Kharif -2023	15	-	Dibbler Cost : 4500/-	Labour Saving, Germination (%)
Dibbler	Castor	Kharif -2023	15	-	Dibbler Cost : 4500/-	Labour Saving, Germination (%)
Silver black plastic mulch	Watermelon	Summer-2023	10	-	Silver black plastic mulch Cost : 20,000/-	Yield,BCR
<b>Total</b>			<b>80</b>	-	<b>62,600/-</b>	-



**b. Livestock Enterprises**

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators
Fenbendazole	Mehsani buffalo	30	30	Fenbendazole, Cost : 3,500/-	Milk production , BCR
Chelated Mineral Mixture	Kankrej cow	30	30	Chelated Mineral Mixture Cost : 7,500/-	Milk production , BCR
Probiotic	Mehsani buffalo	30	30	Probiotic Cost : 9,000/-	Milk production , BCR
Bypass protein	Kankrej cow	30	30	Bypass protein Cost : 17,000/-	Milk production , BCR
<b>Total</b>		<b>120</b>	<b>120</b>	<b>37,000/-</b>	

**c. FLD on Other enterprises**

Enterprise	Name of the technology demonstrated	No. of Farmer	No. of units	Critical inputs	Performance parameters / indicators
Kitchen garden	Seeds and seedlings	100	100	Seeds and seedlings Cost : 12000/-	Yield, Saving (Rs/year)
Aonla Candy	Method of Aonla Candy	20	20	Aonla, Sugar, Citric acid Cost : 3000/-	Quality of candy (Taste, colour, durability)
<b>Total</b>		<b>120</b>	<b>120</b>	<b>15000/-</b>	

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

#### A. ON Campus

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>								
<b>I Crop Production</b>								
Weed Management								
Resource Conservation Technologies	1	17	0	17	3	0	3	20
Cropping Systems								
Crop Diversification								
Integrated Farming								
Water management								
Seed production								
Nursery management								
Integrated Crop Management	5	85	0	85	15	0	15	100
Fodder production								
Production of organic inputs								
<b>II Horticulture</b>								
<b>a) Vegetable Crops</b>								
Production of low volume and high value crops								
Off-season vegetables								
Nursery raising								
Exotic vegetables like Broccoli								
Export potential vegetables								
Grading and standardization								
Protective cultivation (Green Houses, Shade Net etc.)								
<b>b) Fruits</b>								
Training and Pruning								
Layout and Management of Orchards								
Cultivation of Fruit								
Management of young plants/orchards								
Rejuvenation of old orchards	1	17	0	17	3	0	3	20
Export potential fruits								
Micro irrigation systems								

of orchards								
Plant propagation techniques								
<b>c) Ornamental Plants</b>								
Nursery Management								
Management of potted plants								
Export potential of ornamental plants								
Propagation techniques of Ornamental Plants								
<b>d) Plantation crops</b>								
Production and Management technology								
Processing and value addition								
<b>e) Tuber crops</b>								
Production and Management technology								
Processing and value addition								
<b>f) Spices</b>								
Production and Management technology	1	17	0	17	3	0	3	20
Processing and value addition								
<b>g) Medicinal and Aromatic Plants</b>								
Nursery management								
Production and management technology								
Post harvest technology and value addition								
<b>III Soil Health and Fertility Management</b>								
Soil fertility management								
Soil and Water Conservation								
Integrated Nutrient Management	1	17	0	17	3	0	3	20
Production and use of organic inputs								
Management of Problematic soils								
Micro nutrient deficiency in crops								
Nutrient Use Efficiency								
Soil and Water Testing								
<b>IV. Livestock Production and Management</b>								
Dairy Management								

Poultry Management								
Piggery Management								
Rabbit Management/goat								
Disease Management	1	0	18	18	0	2	2	20
Feed Management	4	0	80	80	0	10	10	90
Production of quality animal products								
<b>V. Home Science/Women empowerment</b>								
Household food security by kitchen gardening and nutrition gardening								
Design and development of low/minimum cost diet								
Designing and development for high nutrient efficiency diet	1	0	15	15	0	5	5	20
Minimization of nutrient loss in processing								
Gender mainstreaming through SHGs								
Storage loss minimization techniques								
Value addition	2	0	30	30	0	10	10	40
Income generation activities for empowerment of rural Women								
Location specific drudgery reduction technologies								
Rural Crafts								
Women and child care								
<b>VI. Agril. Engineering</b>								
Installation and maintenance of micro irrigation systems	2	36	0	36	4	0	4	40
Use of Plastics in farming practices								
Production of small tools and implements	1	18	0	18	2	0	2	20
Repair and maintenance of farm machinery and implements	1	18	0	18	2	0	2	20
Small scale processing and value addition								
Post Harvest Technology	1	18	0	18	2	0	2	20
<b>VII. Plant Protection</b>								
Integrated Pest Management	1	17	0	17	3	0	3	20

Integrated Disease Management								
Bio-control of pests and diseases								
Production of bio control agents and bio pesticides								
<b>VIII. Fisheries</b>								
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								
<b>IX Production of Inputs at site</b>								
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								
<b>X Capacity Building and Group Dynamics</b>								
Leadership development								
Group dynamics	1	18	0	18	2	0	2	20

Formation and Management of SHGs	1	18	0	18	2	0	2	20
Mobilization of social capital	2	36	0	36	4	0	4	40
Entrepreneurial development of farmers/youths	1	18	0	18	2	0	2	20
WTO and IPR issues	1	18	0	18	2	0	2	20
<b>XI Agro-forestry</b>								
Production technologies								
Nursery management								
Integrated Farming Systems								
<b>XII Others (Pl. Specify)</b>								
<b>TOTAL</b>	<b>29</b>	<b>368</b>	<b>143</b>	<b>511</b>	<b>52</b>	<b>27</b>	<b>79</b>	<b>590</b>
<b>(B) RURAL YOUTH</b>								
Mushroom Production								
Bee-keeping								
Integrated farming								
Seed production								
Production of organic inputs	1	17	0	17	3	0	3	20
Integrated Farming (Medicinal)								
Planting material production								
Vermi-culture								
Sericulture								
Protected cultivation of vegetable crops								
Commercial fruit production								
Repair and maintenance of farm machinery and implements								
Nursery Management of Horticulture crops								
Training and pruning of orchards								
Value addition	2	0	30	30	0	10	10	40
Production of quality animal products								
Dairying	1	18	0	18	2	0	2	20
Sheep and goat rearing								
Quail farming								
Piggery								
Rabbit farming								
Poultry production								
Ornamental fisheries								

Para vets								
Para extension workers								
Composite fish culture								
Freshwater prawn culture								
Shrimp farming								
Pearl culture								
Cold water fisheries								
Fish harvest and processing technology								
Fry and fingerling rearing								
Small scale processing								
Post Harvest Technology								
Tailoring and Stitching								
Rural Crafts								
<b>TOTAL</b>	<b>4</b>	<b>35</b>	<b>30</b>	<b>65</b>	<b>5</b>	<b>10</b>	<b>15</b>	<b>80</b>
<b>(C) Extension Personnel</b>								
Productivity enhancement in field crops								
Integrated Pest Management								
Integrated Nutrient management								
Rejuvenation of old orchards								
Protected cultivation technology								
Formation and Management of SHGs								
Group Dynamics and farmers organization								
Information networking among farmers								
Capacity building for ICT application								
Care and maintenance of farm machinery and implements								
WTO and IPR issues								
Management in farm animals								
Livestock feed and fodder production	1	4	14	18	0	2	2	20
Household food security								
Women and Child care	1	0	15	15	0	5	5	20
Low cost and nutrient efficient diet designing								
Production and use of organic inputs								
Gender mainstreaming through SHGs								

Any other - Integrated Crop Management	1	22	0	22	3	0	3	25
<b>Total</b>	<b>3</b>	<b>26</b>	<b>29</b>	<b>55</b>	<b>3</b>	<b>7</b>	<b>10</b>	<b>65</b>
<b>G. TOTAL</b>	<b>36</b>	<b>429</b>	<b>202</b>	<b>631</b>	<b>60</b>	<b>44</b>	<b>104</b>	<b>735</b>

## B. OFF Campus

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I Crop Production								
Weed Management	1	22	0	22	3	0	3	25
Resource Conservation Technologies	1	22	0	22	3	0	3	25
Cropping Systems								
Crop Diversification								
Integrated Farming								
Water management								
Seed production								
Nursery management								
Integrated Crop Management	1	22	0	22	3	0	3	25
Fodder production								
Production of organic inputs	1	22	0	22	3	0	3	25
II Horticulture								
a) Vegetable Crops								
Production of low volume and high value crops	3	66	0	66	9	0	9	75
Off-season vegetables	1	22	0	22	3	0	3	25
Nursery raising								
Exotic vegetables like Broccoli								
Export potential vegetables								
Grading and standardization								
Protective cultivation (Green Houses, Shade Net etc.)								
b) Fruits								
Training and Pruning	2	44	0	44	6	0	6	50
Layout and Management of Orchards								
Cultivation of Fruit	1	22	0	22	3	0	3	25
Management of young plants/orchards	2	44	0	44	6	0	6	50



Rejuvenation of old orchards								
Export potential fruits								
Micro irrigation systems of orchards								
Plant propagation techniques								
<b>c) Ornamental Plants</b>								
Nursery Management								
Management of potted plants								
Export potential of ornamental plants								
Propagation techniques of Ornamental Plants								
<b>d) Plantation crops</b>								
Production and Management technology								
Processing and value addition								
<b>e) Tuber crops</b>								
Production and Management technology								
Processing and value addition								
<b>f) Spices</b>								
Production and Management technology								
Processing and value addition	1	22	0	22	3	0	3	25
<b>g) Medicinal and Aromatic Plants</b>								
Nursery management								
Production and management technology								
Post harvest technology and value addition								
<b>III Soil Health and Fertility Management</b>								
Soil fertility management	1	22	0	22	3	0	3	25
Soil and Water Conservation	1	22	0	22	3	0	3	25
Integrated Nutrient Management	1	22	0	22	3	0	3	25
Production and use of organic inputs								
Management of Problematic soils	1	22	0	22	3	0	3	25
Micro nutrient deficiency in crops								
Nutrient Use Efficiency								

Soil and Water Testing	1	22	0	22	3	0	3	25
<b>IV Livestock Production and Management</b>								
Dairy Management	2	0	44	44	0	6	6	50
Poultry Management								
Piggery Management								
Rabbit Management /goat								
Disease Management	3	0	66	66	0	9	9	75
Feed management	3	0	66	66	0	9	9	75
Production of quality animal products								
<b>V Home Science/Women empowerment</b>								
Household food security by kitchen gardening and nutrition gardening	1	0	22	22	0	3	3	25
Design and development of low/minimum cost diet								
Designing and development for high nutrient efficiency diet	2	0	44	44	0	6	6	50
Minimization of nutrient loss in processing	1	0	22	22	0	3	3	25
Gender mainstreaming through SHGs								
Storage loss minimization techniques	1	0	22	22	0	3	3	25
Value addition	2	0	44	44	0	6	6	50
Income generation activities for empowerment of rural Women								
Location specific drudgery reduction technologies								
Rural Crafts								
Women and child care	2	0	44	44	0	6	6	50
<b>VI Agril. Engineering</b>								
Installation and maintenance of micro irrigation systems	4	88	0	88	12	0	12	100
Use of Plastics in farming practices	1	22	0	22	3	0	3	25
Production of small tools and implements	1	22	0	22	3	0	3	25
Repair and maintenance of farm machinery and implements	1	22	0	22	3	0	3	25
Small scale processing and value addition								
Post Harvest Technology	1	22	0	22	3	0	3	25

<b>VII Plant Protection</b>								
Integrated Pest Management								
Integrated Disease Management	2	44	0	44	6	0	6	50
Bio-control of pests and diseases								
Production of bio control agents and bio pesticides								
<b>VIII Fisheries</b>								
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								
<b>IX Production of Inputs at site</b>								
Seed Production								
Planting material production (Horti.)								
Bio-agents production								
Bio-pesticides production								
Bio-fertilizer production								
Vermi-compost production (Horti.)								
Organic manures production (A.S.)								
Production of fry and fingerlings								
Production of Bee-colonies and wax sheets								
Small tools and implements								
Production of livestock feed and fodder								
Production of Fish feed								
<b>X Capacity Building and Group Dynamics</b>								

Leadership development	4	66	22	88	9	3	12	100
Group dynamics	2	44	0	44	6	0	6	50
Formation and Management of SHGs(HS)	1	22	0	22	3	0	3	25
Mobilization of social capital								
Entrepreneurial development of farmers/youths (Agro.)								
WTO and IPR issues								
<b>XI Agro-forestry</b>								
Production technologies								
Nursery management								
Integrated Farming Systems (Agro)								
<b>XII Others (Pl. Specify)</b>								
<b>TOTAL</b>	<b>53</b>	<b>770</b>	<b>396</b>	<b>1166</b>	<b>105</b>	<b>54</b>	<b>159</b>	<b>1325</b>

**C. Consolidated table (ON and OFF Campus)**

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		M	F	T	M	F	T	
(A) Farmers & Farm Women								
I Crop Production								
Weed Management	1	22	0	22	3	0	3	25
Resource Conservation Technologies	2	39	0	39	6	0	6	45
Cropping Systems								
Crop Diversification								
Integrated Farming								
Water management								
Seed production								
Nursery management								
Integrated Crop Management	6	107	0	107	18	0	18	125
Fodder production								
Production of organic inputs	1	22	0	22	3	0	3	25
II Horticulture								
a) Vegetable Crops								
Production of low volume and high value crops	3	66	0	66	9	0	9	75
Off-season vegetables	1	22	0	22	3	0	3	25

Nursery raising								
Exotic vegetables like Broccoli								
Export potential vegetables								
Grading and standardization								
Protective cultivation (Green Houses, Shade Net etc.)								
<b>b) Fruits</b>								
Training and Pruning	2	44	0	44	6	0	6	50
Layout and Management of Orchards								
Cultivation of Fruit	1	22	0	22	3	0	3	25
Management of young plants/orchards	2	44	0	44	6	0	6	50
Rejuvenation of old orchards	1	17	0	17	3	0	3	20
Export potential fruits								
Micro irrigation systems of orchards								
Plant propagation techniques								
<b>c) Ornamental Plants</b>								
Nursery Management								
Management of potted plants								
Export potential of ornamental plants								
Propagation techniques of Ornamental Plants								
<b>d) Plantation crops</b>								
Production and Management technology								
Processing and value addition								
<b>e) Tuber crops</b>								
Production and Management technology								
Processing and value addition								
<b>f) Spices</b>								
Production and Management technology	1	17	0	17	3	0	3	20
Processing and value addition	1	22	0	22	3	0	3	25
<b>g) Medicinal and Aromatic Plants</b>								
Nursery management								
Production and management technology								
Post harvest technology and value addition								

<b>III Soil Health and Fertility Management</b>								
Soil fertility management	1	22	0	22	3	0	3	25
Soil and Water Conservation	1	22	0	22	3	0	3	25
Integrated Nutrient Management	2	39	0	39	6	0	6	45
Production and use of organic inputs								
Management of Problematic soils	1	22	0	22	3	0	3	25
Micro nutrient deficiency in crops								
Nutrient Use Efficiency								
Soil and Water Testing	1	22	0	22	3	0	3	25
<b>IV Livestock Production and Management</b>								
Dairy Management	2	0	44	44	0	6	6	50
Poultry Management								
Piggery Management								
Rabbit Management/goat								
Disease Management	4	0	84	84	0	11	11	95
Feed management	7	0	146	146	0	19	19	165
Production of quality animal products								
<b>V Home Science/Women empowerment</b>								
Household food security by kitchen gardening and nutrition gardening	1	0	22	22	0	3	3	25
Design and development of low/minimum cost diet								
Designing and development for high nutrient efficiency diet	3	0	59	59	0	11	11	70
Minimization of nutrient loss in processing	1	0	22	22	0	3	3	25
Gender mainstreaming through SHGs								
Storage loss minimization techniques	1	0	22	22	0	3	3	25
Value addition	4	0	74	74	0	16	16	90
Income generation activities for empowerment of rural Women								
Location specific drudgery reduction technologies								
Rural Crafts								
Women and child care	2	0	44	44	0	6	6	50
<b>VI Agril. Engineering</b>								
Installation and maintenance of micro irrigation systems	6	124	0	124	16	0	16	140

Use of Plastics in farming practices	1	22	0	22	3	0	3	25
Production of small tools and implements	2	40	0	40	5	0	5	45
Repair and maintenance of farm machinery and implements	2	40	0	40	5	0	5	45
Small scale processing and value addition								
Post Harvest Technology	2	40	0	40	5	0	5	45
<b>VII Plant Protection</b>								
Integrated Pest Management	1	17	0	17	3	0	3	20
Integrated Disease Management	2	44	0	44	6	0	6	50
Bio-control of pests and diseases								
Production of bio control agents and bio pesticides								
<b>VIII Fisheries</b>								
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								
<b>IX Production of Inputs at site</b>								
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								
<b>X Capacity Building and Group Dynamics</b>								
Leadership development	4	66	22	88	9	3	12	100
Group dynamics	3	62	0	62	8	0	8	70
Formation and Management of SHGs	2	40	0	40	5	0	5	45
Mobilization of social capital	2	36	0	36	4	0	4	40
Entrepreneurial development of farmers/youths	1	18	0	18	2	0	2	20
WTO and IPR issues	1	18	0	18	2	0	2	20
<b>XI Agro-forestry</b>								
Production technologies								
Nursery management								
Integrated Farming Systems								
Sponsored training								
<b>TOTAL</b>	<b>82</b>	<b>1138</b>	<b>539</b>	<b>1677</b>	<b>157</b>	<b>81</b>	<b>238</b>	<b>1915</b>
<b>(B) RURAL YOUTH</b>								
Mushroom Production								
Bee-keeping								
Integrated farming								
Seed production								
Production of organic inputs	1	17	0	17	3	0	3	20
Integrated Farming								
Planting material production								
Vermi-culture								
Sericulture								
Protected cultivation of vegetable crops								
Commercial fruit production								
Repair and maintenance of farm machinery and implements								
Nursery Management of Horticulture crops								
Training and pruning of orchards								
Value addition	2	0	30	30	0	10	10	40
Production of quality animal products								



Dairying	1	18	0	18	2	0	2	20
Sheep and goat rearing								
Quail farming								
Piggery								
Rabbit farming								
Poultry production								
Ornamental fisheries								
Para vets								
Para extension workers								
Composite fish culture								
Freshwater prawn culture								
Shrimp farming								
Pearl culture								
Cold water fisheries								
Fish harvest and processing technology								
Fry and fingerling rearing								
Small scale processing								
Post Harvest Technology								
Tailoring and Stitching								
Rural Crafts								
<b>TOTAL</b>	<b>4</b>	<b>35</b>	<b>30</b>	<b>65</b>	<b>5</b>	<b>10</b>	<b>15</b>	<b>80</b>
<b>(C) Extension Personnel</b>								
Productivity enhancement in field crops								
Integrated Pest Management								
Integrated Nutrient management								
Rejuvenation of old orchards								
Protected cultivation technology								
Formation and Management of SHGs								
Group Dynamics and farmers organization								
Information networking among farmers								
Capacity building for ICT application								
Care and maintenance of farm machinery and implements								
WTO and IPR issues								

Management in farm animals								
Livestock feed and fodder production	1	4	14	18	0	2	2	20
Household food security								
Women and Child care	1	0	15	15	0	5	5	20
Low cost and nutrient efficient diet designing								
Production and use of organic inputs								
Gender mainstreaming through SHGs								
Any other (Integrated Crop Management)	1	22	0	22	3	0	3	25
<b>Total</b>	3	26	29	55	3	7	10	65
<b>G. TOTAL</b>	<b>89</b>	<b>1199</b>	<b>598</b>	<b>1797</b>	<b>165</b>	<b>98</b>	<b>263</b>	<b>2060</b>

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

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

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		M	F	T	M	F	T	M	F	T
Field Day	20	450	150	600	10	10	20	460	160	620
Kisan Mela										
Kisan Ghosthi	3	200	100	300	0	0	0	200	100	300
Exhibition	1	100	100	200	0	0	0	100	100	200
Film Show	5	100	50	150	0	0	0	100	50	150
Farmers Seminar / Workshop	2	180	180	360	20	20	40	200	200	400
Group meetings	1	15	10	25	0	0	0	15	10	25
Lectures delivered as resource persons	30	300	300	600	10	10	20	310	310	620
Newspaper coverage	5									
SMS sent to farmers	8									
Popular articles	2									
Extension Literature	5									
<b>Advisory Services</b>										
Scientific visit to farmers field/ Diagnostic visits	10	20	10	30	5	5	10	15	25	40
Farmers visit to KVK	20	400	250	650	10	10	20	410	260	670
Ex-trainees Sammelan	2	40	20	60	0	0	0	40	20	60
Soil health Camp	1	25	25	500	0	0	0	25	25	50
FPO Meeting	2	50	50	100	0	0	0	50	50	100
Mahila Mandals Conveners meetings	1	0	25	25	0	0	0	0	25	25
CELEBRATION of important days (specify)	4	100	50	150	0	0	0	100	50	150
FLD / OFT Field Visit	10	25	20	45	0	0	0	25	20	45
<b>Total</b>	<b>132</b>	<b>2005</b>	<b>1340</b>	<b>3795</b>	<b>55</b>	<b>55</b>	<b>110</b>	<b>2050</b>	<b>1405</b>	<b>3455</b>

### 3.6. Target for Production and supply of Technological products

#### SEED MATERIALS

Sl. No.	Crop	Variety	Quantity (qtl.)
Cereals	Wheat	GW-451	10
	Wheat	GW-496	10
	Wheat	GW-499	6
	Wheat	GW-513	6
Oilseeds	Mustard	GDM-4	3
Pulses			
	Blackgram	GU-2	1
	Blackgram	GU-4	1
	Green gram	GM-6	1
		<b>Total</b>	<b>38</b>

#### PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
Spices			
	Fennel	GF-12	20,000
	Chilli, Tamato, Brinjal	-	2,000
Vegetables			
	Drumstick	PKM-1, ODC-3	2,000
Forest species			
		<b>Total</b>	<b>24,000</b>

#### Bio-products

Sl. No.	Product Name	Species	Quantity	
			Kg	ltr
Bio pesticides/bio product				
1	Vermi compost	Jay gopal ( <i>Perionyxcelensis</i> )	3000	
2	Jivamrut			500
3	Earthworm	<i>Perionyx celensis</i>	150	
Others				
1	Moringa Leaves Powder		5	
2	Aonla Juice			1000
3	Azolla	<i>Azolla pinata</i>	30	

## LIVESTOCK

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

### 4.Literature to be Developed/Published

#### A. KVK News Letter

Date of start : 01/01/2010

Number of copies to be published : 500 (Vol.20, Jan-Dec 2024)

#### B. Literature developed/published

S.No.	Topic	Number
1	Research paper each scientist	1
2	Technical reports	1
3	News letters	1
4	Training manual all discipline	1
5	Popular article	2
6	Extension literature	5
	<b>Total</b>	<b>11</b>

#### C. Details of Electronic Media to be produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette) and video clippings	Title of the programme	Number
1	-	-	-

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

- a. Brief introduction
- b. Interventions
- c. Output
- d. Outcomes
- e. Impact
  - i) Social economic
  - ii) Bio-Physical
- f. Good Action Photographs

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

#### **A. Practicing Farmers**

- a) PRA
- b) Problem identified from Matrix
- c) Field level observations
- d) Farmer group discussions

#### **B. Rural Youth**

- a) PRA
- b) Problem identified from Matrix
- c) Field level observations
- d) Farmer group discussions

#### **C. In-service personnel**

- a) Written test
- b) Demanded from agriculture department

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

#### **For OFT:**

PRA

Problem identified from Matrix and gap analysis

Field level observations

Farmer group discussions

Others if any

#### **For FLD:**

New variety/technology

Poor yield at farmers level

Existing cropping system

Others if any

### **5.3. Field activities**

- i. Name of villages identified/adopted with block name (2024) :  
Saduthala (Visnagar)
- ii. No. of farm families selected per village : 25
- iii. No. of survey/PRA conducted : 1
- iv. No. of technologies taken to the adopted villages : 25-30
- v. Name of the technologies found suitable by the farmers of the adopted villages:
- vi. Impact (production, income, employment, area/technological– horizontal/vertical)
- vii. Constraints if any in the continued application of these improved technologies

## 6. LINKAGES

### 6.1. Functional linkage with different organizations

Sr.No	Name of Organization	Nature of Linkage
1	DSC, Visnagar	Joint implement
2	SardarkrushinagarDantiwada Agricultural University , Sardarkrushinagar	Technical backstopping
3	Anand Agricultural University , Anand	Technical support
4	Department of Agriculture, Mehsana	Joint implementation
5	Dept. of Horticulture, Mehsana	Joint implementation
6	NABARD, Mehsana	Joint implementation for farmers clubs and Strengthening of SHGs
7	ATMA, Mehsana	Joint implementation
8	Dena Bank, Mehsana	Member of SAC, For S.H.G. formation
9	G.S.F.C., G.N.F.C. and IFFCO	Joint implementation, FLD Inputs
10	Main Seed Spices Research Station, SDAU, Jagudan	Technical support
11	DRDA	Participating in meeting
12	Farmer Training Centre, Mehsana	Joint Implementation
13	Deputy Director (A.H),Mehsana	Member of SAC, Various Govt. Scheme
14	Wheat Research Station,SDAU, Vijapur	FLD
15	Gujarat State Seed Corporation Ltd, Mehsana	Seed production, Input FLD
16	Self Employed Women Association (SEWA), Nandasan, Mehsana	Joint Implementation
17	Baroda RSETI, Mehsana	Joint Implementation , Vocational trainings, Member of LAC
18	National Centre for Integrated Pest Management, New Delhi	Joint implementation
19	Junagadh Agricultural University, Junagadh	Technical backstopping
20	National Institute of Plant Health Management, Hyderabad	Technical support
21	Navsari Agricultural University, Navsari	Technical backstopping
22	Dept. of Forest, Mehsana	Technical support
23	ICDS, Mehsana	Technical support
24	Reliance Foundation, Ahmedabad	ICT technology support

## 6.2. Details of linkage with ATMA

a) Is ATMA implemented in your district Yes

S. No.	Programme	Nature of linkage
1	Training	Technical expertise, method demonstration.
2	Interface meeting	Technical expertise by KVK staff
3	Diagnostic visit	Joint visit of ATMA villages Diagnostic visit on farmers field
4	Kisan gosthi	Technical lectures by KVK staff
5	Lecture delivered in ATMA programme	Technical expertise by KVK staff

## 6.3. Give details of programmes under National Horticultural Mission

S. No.	Programme	Nature of linkage
1	-	-

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

S. No.	Programme	Nature of linkage
1	-	-

## 6.5. Additional Activities Planned including sponsored projects

(ProCRA / Pro SOIL/NARI /DAESI/ DAMU/DFI, etc.)/ schemes during 2022, if involved.

S.No.	Name of the agency / scheme	Name of activity	Technical programme with quantification	Financial outlay (Rs.)	Names of the team members involved
1	NARI	On campus training	Awareness of women regarding Nutrition, Value addition, Local produced cereals, vegetables and fruits, their importance for healthy life Conservation of nutrients while handling and cooking of food		Smt. Babita Ramnivas Dr.S.M. Soni Shri B.K. Patel
		Off campus training	Importance of nutri garden and how to manage nutri garden, Nutritional food requirement and their importance for women and children		
		Awareness Programme / Meeting/ Kisangosthi	Awareness programme will be organized at village and school level regarding use of nutri sensitive agricultural technology and innovation.		
		Demonstration	Demonstration of nutritional		



			garden at KVK Nutri gardening - Includes nutritionally rich crop varieties and other technologies and its proper layout will be prepared and demonstrated at village as well as school. Value addition and fortification of cereals, pulse, fruits and vegetables through method FLD - Kitchen gardening, 50 FLDs will be implemented		
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#### 6.5.1. Details of activities planned in DFI villages

Name of DFI village selected	Total No. of families in the village	Interventions planned during 2022	No. of families to be covered under the intervention	Present annual income of the family (Rs /annum)	Expected annual income of the family after intervention (Rs/ annum)
-	-	-	-	-	-

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

S. No.	Name of the village	Activities planned	No. of families to be covered
1	Venpura	On campus training, Off campus training, Awareness Programme / Meeting/ Kisangosthi, Demonstration	51

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

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

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

S. No.	Name of Job Role	Duration (No. of hours)	No. of participants
1	Small Organic cultivator	210	25
2	Harvest and post harvest machine technician	210	25

**6.6. Activities planned in respect of FPOs / FPCs**

1. No. of FPOs / FPCs to be formed: 9

2. No. of existing FPOs / FPCs to be facilitated: 7

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

S. No	Name of the FPO / FPC	Year of Implementation	No. of members	Major activities of FPO / FPC	Type of support to be provided by KVK
1	Krushidhan Producer Company, Ahmedabad	2016	1477	Training and capacity building, Distribution of agriculture inputs, Support in purchase and selling, Production of organic inputs	Training and Technical support
2	Panchgam Agro Producer Company, Savala, Visnagar	2021	510		
3	Kahoda Farmers Producer company, Kahoda, Unjha	2021	520		
4	Mehsana Agroforestry Farmers Producer Company Ltd., At : Udalpur, Visnagar	2021	100		
5	Kadi Taluka farmers Producer Ltd ,Kadi	2021	410		
6	Vijapur Taluka farmers Producer Ltd ,Vijapur	2021	800		
7	Visnagar Taluka farmers Producer Ltd ,Visnagar	2021	110		
8	VUBS PRODUCER Visnagar	2022	307		
9	Rupen Farmers Producer Company	2023	275		

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

S. No.	Name of the department / Agency	Type of convergence	Area (ha) / No. of farmers to be benefited
1	Department of Agriculture	Training and technical backstopping	1000
2	Department of Horticulture	Training and technical backstopping	300

**8. Innovator Farmer's Meet 2022**

Sl.No.	Particulars	Details	Expected No. of participants
1	Innovator farmers meet	August	30

**9. Utilization of hostel facilities**

S. No.	Month	No. of days to be utilized
1	-	-
	<b>Total</b>	

**10. Details of online activities planned (If any)**

S. No.	Type of activities	No. of programmes	Mode of implementation (Video conferencing / Audio Conferencing / Facebook Live / YouTube Live, etc)	No. of participants to be covered
1	Farmers trainings	-	-	-
2	Farmers scientist's interaction programme	-	-	-
3	Farmers seminars	-	-	-
4	Expert lectures	-	-	-
5	Mobile conference	-	-	-

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

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

## Training list

Sr.No	Discipline	Title	Thematic Are	Cliental	On / Off	Duration ( Days)	Number of participants			Number of SC/ST			Total
							M	F	T	M	F	T	
	January, 2024												
1	Extension Education	Use and importance of ITK in farming community	Mobilisation of social capital	PF	On	1	18	0	18	2	0	2	20
2	Home Science	Preparation and preservation of aonla products	Value addition	FW	On	1	0	15	15	0	5	5	20
3	Livestock production	Azolla production technology for dairy animals	Feed management	FW	On	3	0	22	22	0	3	3	25
4	Agriculture Engineering	Post Harvest Technology of spice seed	Post harvest technology	PF	Off	1	22	0	22	3	0	3	25
5	Crop production	Production techniques of Jivamrut	Production and use of organic inputs	PF	Off	2	22	0	22	3	0	3	25
6	Home Science	Preparation and preservation of tomato product	Value addition	FW	Off	2	0	22	22	0	3	3	25
	February, 2024												
7	Agriculture Engineering	Mulching technology in watermelon crop	Use of plastic in farming practices	PF	Off	1	22	0	22	3	0	3	25

8	Crop production	Scientific cultivation of summer sesamum and bajara	Integrated Crop Management	PF	Off	1	22	0	22	3	0	3	25
9	Extension Education	Importance and formation of FPOs	Formation and management of SHGs	PF	OFF	1	22	0	22	3	0	3	25
10	Home Science	Healthcare and balance diet for farm women	Women and child care	FW	Off	2	0	22	22	0	3	3	25
11	Livestock production	Foot and mouth disease management in dairy animals	Disease management	FW	Off	1	0	22	22	0	3	3	25
	March, 2024												
12	Agriculture Engineering	Post Harvest Technology of spice seed	Post harvest technology	PF	On	1	18	0	18	2	0	2	20
13	Agriculture Engineering	Use of different type of MIS in agriculture	Installation and maintenance of micro-irrigation system	PF	On	1	18	0	18	2	0	2	20
14	Livestock production	Round the year green fodder prodution technology	Feed management	PF	On	3	0	22	22	0	3	3	25
15	Agriculture Engineering	Various type of MIS in agriculture	Installation and maintenance of micro-irrigation system	PF	Off	1	22	0	22	3	0	3	25
16	Extension Education	Awareness about Government scheme for farmers	Group Dynamics	PF	OFF	1	22	0	22	3	0	3	25

	April, 2024												
17	Agriculture Engineering	Various improved tractor drawn farm implements use for agriculture operation	Repair and maintenance of farm machinery and implements	PF	On	1	18	0	18	2	0	2	20
18	Extension Education	Formation and management of SHGs/Farmers club	Formation and management of SHGs	PF	ON	1	18	0	18	2	0	2	20
19	Extension Education	Importance of Contract farming	Group Dynamics	PF	OFF	1	22	0	22	3	0	3	25
20	Home Science	Safe food grains storage technologies	Storage loss minimization techniques	FW	Off	1	0	22	22	0	3	3	25
21	Livestock production	Production Technology of fodder sorghum	Feed management	FW	Off	1	0	22	22	0	3	3	25
	May,2024												
22	Extension Education	Government programs for employment and income generation	Entrepreneurial development of farmers/youth	PF	ON	1	18	0	18	2	0	2	20
23	Home Science	Preparation method of squash, jam and pickle from mango	Value addition	FW	On	1	0	15	15	0	5	5	20
24	Livestock production	Use and importance of probiotic in animal feed	Feed management	FW	On	1	0	18	18	0	2	2	20
25	Agriculture Engineering	Farm Implements used in cotton cultivation	Repair and maintenance of farm machinery and implements	PF	Off	1	22	0	22	3	0	3	25

26	Agriculture Engineering	Soil and Water Conservation technology	Soil and Water Conservation	PF	Off	1	22	0	22	3	0	3	25
27	Crop production	Reclamation of problematic soils- Green Manuring	Management of problematic soil	PF	Off	1	22	0	22	3	0	3	25
28	Crop production	Soil sampling method and its importance	Soil and water testing	PF	Off	1	22	0	22	3	0	3	25
29	Horticulture	Natural farming of fruit crops	Cultivation of fruits	PF	Off	1	22	0	22	3	0	3	25
30	Horticulture	Micronutrient application in lime	Management of young plant	PF	Off	1	22	0	22	3	0	3	25
31	Livestock production	Importance of vaccination and deworming in dairy animals	Disease management	FW	Off	1	0	22	22	0	3	3	25
	June, 2024												
32	Crop production	Prakrutik kheti	Integrated Crop Management	EF	On	3	22	0	22	3	0	3	25
33	Crop production	Improved cultivation practices of blackgram	Integrated Crop Management	PF	On	2	17	0	17	3	0	3	20
34	Crop production	Scientific cultivation of groundnut	Integrated Crop Management	PF	On	2	17	0	17	3	0	3	20
35	Home Science	Value addition in groundnut	Value addition	RY	On	5	0	15	15	0	5	5	20
36	Livestock production	Ectoparasitic management in dairy animals	Disease management	FW	On	1	0	18	18	0	2	2	20
37	Plant Protection	IPM in Cotton	Integrated Pest Management	PF	On	1	17	0	17	3	0	3	20

38	Agriculture Engineering	Drip irrigation in cotton crop	Installation and maintenance of micro-irrigation system	PF	Off	1	22	0	22	3	0	3	25
39	Crop production	Importance of green manuring in Prakrutik Kheti	Soil fertility management	PF	Off	2	22	0	22	3	0	3	25
40	Extension Education	Role of women in agriculture	Leadership development	FW	OFF	1	0	22	22	0	3	3	25
41	Home Science	Food management for pregnant and adult girls	Women and child care	FW	Off	2	0	22	22	0	3	3	25
	July, 2024												
42	Crop production	Nutrient management in Prakrutik Kheti	Integrated Nutrient Management	PF	On	2	17	0	17	3	0	3	20
43	Extension Education	Awareness towards human and soil health	WTO And IPR issue	PF	ON	1	18	0	18	2	0	2	20
44	Crop production	Integrated nutrient management in Bt.cotton	INM	PF	Off	1	22	0	22	3	0	3	25
45	Home Science	Importance and techniques of kitchen gardening	Household food security by kitchen gardening and nutrition gardening	FW	Off	1	0	22	22	0	3	3	25
46	Horticulture	Integrated nutrient management in chilli	Production of low volume and high value crops	PF	Off	1	22	0	22	3	0	3	25
47	Horticulture	Scientific cultivation in tomato	Production of low volume and high value crops	PF	Off	1	22	0	22	3	0	3	25



48	Horticulture	Care and management of newly established orchard	Management of young plant	PF	Off	1	22	0	22	3	0	3	25
49	Livestock production	Prevention of mastitis disease in dairy animals	Disease management	FW	Off	1	0	22	22	0	3	3	25
	August, 2024												
50	Crop production	Improved production technology of castor	Integrated Crop Management	PF	On	2	17	0	17	3	0	3	20
51	Agriculture Engineering	Rain water recharge through well	Resource Conservation Technologies	PF	Off	1	22	0	22	3	0	3	25
52	Agriculture Engineering	Use of improved hand operated farm implements in castor crop	Production of small tools and implements	PF	Off	1	22	0	22	3	0	3	25
53	Extension Education	Need and importance of Agri entrepreneurship	Leadership development	PF	OFF	1	22	0	22	3	0	3	25
54	Home Science	Conservation of nutrients while handling and cooking of food	Minimization of nutrient loss in processing	FW	Off	2	0	22	22	0	3	3	25
55	Livestock production	Azolla production technology for dairy animals	Feed management	FW	Off	1	0	22	22	0	3	3	25
56	Plant Protection	IPM and IDM in castor	Integrated Disease Management	PF	off	1	22	0	22	3	0	3	25
	September, 2024												

57	Extension Education	Income generation via mobilizing farm people	Mobilisation of social capital	PF	ON	1	18	0	18	2	0	2	20
58	Home Science	Nutrition awareness programme for anganvadi workers	Women and child care	EF	On	1	0	15	15	0	5	5	20
59	Livestock production	Feed and fodder management for dairy animals	Livestock feed and fodder production	EF	On	1	4	14	18	0	2	2	20
60	Home Science	Nutriton value of millet and its value addition	Design and development for high nutrient efficiency diet	FW	Off	2	0	22	22	0	3	3	25
61	Horticulture	Natural farming of vegetables	Off season vegetables	PF	Off	1	22	0	22	3	0	3	25
62	Livestock production	Clean milk production in dairy animals	Dairy management	FW	Off	1	0	22	22	0	3	3	25
	October, 2024												
63	Crop production	Improved production technology of mustard	Integrated Crop Management	PF	On	2	17	0	17	3	0	3	20
64	Crop production	Prakrutik kheti	Resource conservation technologies	PF	On	3	17	0	17	3	0	3	20
65	Livestock production	Use and importance of chelated mineral mixture in dairy animal	Feed management	FW	On	1	0	18	18	0	2	2	20
66	Plant Protection	Preparation of bio-pesticides	Production of organic inputs	RY	On	2	17	0	17	3	0	3	20
67	Horticulture	Natural farming in ajwain	Production and management	PF	On	1	17	0	17	3	0	3	20

			technology										
68	Horticulture	Rejuvenation of old lime orchard	Rejuvenation of old orchard	PF	On	1	17	0	17	3	0	3	20
69	Agriculture Engineering	Irrigation management in cotton crop	Installation and maintenance of micro-irrigation system	PF	Off	1	22	0	22	3	0	3	25
70	Crop production	Weed management in wheat crop	Weed management	FW	Off	2	22	0	22	3	0	3	25
71	Extension Education	Efficient marketing channels for enhancing the income of farm produce	Leadership development	PF	OFF	1	22	0	22	3	0	3	25
72	Home Science	Preparation method of bajara biscuits through different technology	Design and development for high nutrient efficiency diet	FW	Off	2	0	22	22	0	3	3	25
73	Horticulture	Use of improved pruning technique in fruit crop	Training and pruning	PF	Off	1	22	0	22	3	0	3	25
	November, 2024												
74	Agriculture Engineering	Efficient use of water through MIS	Installation and maintenance of micro-irrigation system	PF	On	1	18	0	18	2	0	2	20
75	Crop production	Scientific cultivation of wheat	Integrated Crop Management	PF	On	1	17	0	17	3	0	3	20
76	Extension Education	Role of FPOs in doubling farmer	Group Dynamics	PF	ON	1	18	0	18	2	0	2	20

		income											
77	Home Science	Value addition in aonla	Value addition	RY	On	5	0	15	15	0	5	5	20
78	Livestock production	Dairy farmer enterprise	Dairying	RY	On	6	18	0	18	2	0	2	20
79	Agriculture Engineering	Irrigation management in castor crop	Installation and maintenance of micro-irrigation system	PF	Off	1	22	0	22	3	0	3	25
80	Home Science	Preparation and preservation of aonla candy	Value addition	FW	Off	1	0	22	22	0	3	3	25
81	Horticulture	Scientific cultivation of drumstik	Production of low volume and high value crops	FW	Off	1	22	0	22	3	0	3	25
82	Horticulture	Value addition in fennel and cumin	Processing and value addition	FW	Off	1	22	0	22	3	0	3	25
83	Horticulture	Regulation of bahar treatment in lime orchard	Training and pruning	PF	Off	1	22	0	22	3	0	3	25
84	Livestock production	Balance feeding technology for dairy animals	Feed management	FW	Off	1	0	22	22	0	3	3	25
	December, 2024												
85	Agriculture Engineering	Harvesting Technique of castor spike through improved small farm tools	Production of small tools and implements	FW	On	1	18	0	18	2	0	2	20

86	Home Science	Use and importance of drumstick pods and leaves in our daily diet	Designing and develop for high nutrient efficiency diet	FW	On	1	0	15	15	0	5	5	20
87	Extension Education	Role of ICT in doubling the income of farmers	Leadership development	PF	OFF	1	22	0	22	3	0	3	25
88	Livestock production	Care and management of calf	Dairy management	FW	Off	1	0	22	22	0	3	3	25
89	Plant Protection	Pests and disease management in natural farming	Integrated Disease Management	PF	Off	1	22	0	22	3	0	3	25

**ii) Vocational training programme for Rural youth**

Crop / Enterprise	Identified Thrust area	Training title	Month	Duration in days	No. of Participants			Number of SC/ST			Total
					M	F	T	M	F	T	
Plant Protection	Production of organic inputs	Preparation of bio-pesticides	October, 2024	4	22	0	22	3	0	3	25
Livestock	Dairy management	Dairy farmer enterprise	November, 2024	6	18	0	18	2	0	2	20
Home science	Value addition	Value addition in farsan making	June, 2024	5	0	15	15	0	5	5	20
Home science	Value addition	Value addition in aonla	November, 2024	4	0	15	15	0	5	5	20
			<b>Total ( 4 )</b>		<b>40</b>	<b>30</b>	<b>70</b>	<b>5</b>	<b>10</b>	<b>15</b>	<b>85</b>

**iii) Training programme for extension functionaries**

Date	Clientele	Title of the training programme	Duration in days	No. of Participants			Number of SC/ST			Total
				M	F	T	M	F	T	
June, 2024	EF	Prakrutik kheti	3	22	0	22	3	0	3	25
September, 2024	EF	Nutrition awareness programme for Anganwadi workers	1	0	15	15	0	5	5	20
September, 2024	EF	Feed and fodder management for dairy animals	1	4	14	18	0	2	2	20
		<b>Total ( 4)</b>		<b>26</b>	<b>29</b>	<b>55</b>	<b>3</b>	<b>7</b>	<b>10</b>	<b>65</b>

**iv) Sponsored programme**

Disciplin e	Sponsoring agency	Cliente le	Title of the training programme	No. of course	No. of participant s			Number of SC/ST			G. Total
					M	F	T	M	F	T	
a) Sponsored training programme											
Agril. Engg.	ATMA	PF	Efficient use of water through MIS	1	17	0	17	3	0	3	20
			Total (4)	1	17	0	17	3	0	3	20
b) Sponsored research programme											
			Total								
c) Any special programmes											
			Total								

## Annexure - II

### Budget - Details of budget utilization (April,2022to March, 2023)

S. No.	Particulars	Sanctioned	Released	Expenditure
A	Recurring Contingencies			
1	Pay & Allowances	203.50	203.50	199.70
2	Traveling allowances	1.27	1.27	1.27
3	Contingencies			
3.1	Res.& Operational Expenses	3.02	3.02	3.02
3.2	Adm. Expenses	3.07	3.07	3.07
	Total Recurring	7.36	7.36	7.36
B	Non-Recurring Contingencies			
1	Works	0.00	0.00	0.00
2	Equipment including SWTL& Furniture	0.00	0.00	0.00
3	Vehicle (Four wheeler/Two wheeler, please specify)	0.00	0.00	0.00
4	Library	0.00	0.00	0.00
	Total Non-Recurring	0.00	0.00	0.00
C	Revolving fund	0.00	0.00	0.00
	Grand total (A+B+C)	210.86	210.86	207.06

### Financial status of Cluster FLDs (2022-23) up to March-2023

Scheme	Budget Sanctioned (Rs.)	Opening Balance	Budget Release (Rs)	Budget Utilized (Rs.)	Balance (Rs.)
CFLD-Oilseeds	4.60	-0.35	1.87	2.84	-1.32
CFLD-Pulses	1.80	-0.53	0.34	1.42	-1.61
Natural farming- Farmers outreach farming	2.66	0.00	2.66	2.66	0
Skill Development Programme	2.87	0.06	2.81	2.87	0
SAP	0.24	0.00	0.24	0.24	0
Kisan Bhagidari Prtahmikata Hamari	0.98	0.00	0.98	0.98	0



**Revolving Fund(Rs. in lakhs)**

Year	Opening Balance	Income	Expenditure	Closing Balance
2019-20	23.65	8.35	5.84	26.16
2020-21	26.16	12.12	6.77	31.51
2021-22	31.51	10.42	3.00	38.93
2022-23	38.93	12.56	7.42	44.07
2023-24( Up to Dec-2023	44.07	15.75	2.05	57.77

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

S. No.	Particulars	BE 2024-25 proposed (Rs. in Lakhs)
A	Recurring Contingencies	
1	Pay & Allowances	215.00
2	Traveling allowances	1.50
3	Contingencies	
3.1	Res.&Operational Expenses	10.00
3.2	Adm.Expenses	10.00
	TOTAL Recurring Contingencies	236.50
B	Non-Recurring Contingencies	
1	Works / CCTV	110.00
2	Equipment's including SWTL & Furniture	36.00
3	Vehicle (Four wheeler/Two wheeler, please specify)	9.00
4	Library (Purchase of assets like books & journals)	
	TOTAL Non-Recurring Contingencies	155.00
C	Revolving fund	
	Grand total	391.50