

## ANNUAL ACTION PLAN

(2022-23)

### 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
	Office	FAX		
Krishi Vigyan Kendra, AMBHETI Ta. Kaparada Di. Valsad Via. Vapi Gujarat Pin. 396 191	--	--	<a href="mailto:kvkvalsad@gmail.com">kvkvalsad@gmail.com</a>	<a href="http://www.kvkvalsad.org">www.kvkvalsad.org</a>

#### 1.2. Name and address of host organization with phone, fax and e-mail (Not of KVK)

Address with PIN code	Telephone		E mail	Website address
	Office	FAX		
Gujarat Vidyapith Ashram road AHMEDABAD Pin. 380 014	(1) 079 2754 5044 (2) 079 2754 1148	079 2754 25 47	registrar @ gujaratvidyapith.org	<a href="http://www.gujaratvidyapith.org">www.gujaratvidyapith.org</a>

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

Name	Telephone / Contact		
	Office	Mobile	Email
Dr. R.F.Thakor	--	94271 29451	<a href="mailto:rthakor1965@yahoo.co.in">rthakor1965@yahoo.co.in</a>

#### 1.4. Year of sanction & type of host organization::Sanction letter F. No. 5 (108) / 90 - KVK 28<sup>th</sup> March 1991.

Year of Establishment : 21<sup>th</sup> Sept. 1992

Type of host organization – Others (DU)

1.5. Staff Position (as on 31<sup>st</sup> December, 2022)

Sl. No.	Sanctioned post	Name of the incumbent	Mobile No.	Discipline	If Permanent, Please indicate		Date of joining	If Temporary, pl. indicate the consolidated amount paid (Rs./month)
					Current Pay Band	Current Grade Pay		
1.	Senior Scientist and Head	Dr. R.F.Thakor	9427129451	Ext . Edu.	37400-67000	10000	19/05/01	
2.	Subject Matter Specialist	Sh. K.A.Patel	9426889148	Pl. Prot.	15600-39100	7600	28/02/94	
3.	Subject Matter Specialist	Sh. A.R.Patel	9428381449	Ext . Edu.	15600-39100	7600	23/01/96	
4.	Subject Matter Specialist	Sh. L.T.Kapur	8980619497	Soil Science	15600-39100	7600	16/12/06	
5.	Subject Matter Specialist	Sh. M.M.Gajjar	9909761181	Agronomy	15600-39100	6600	17/09/13	
6.	Subject Matter Specialist	--		Horti.	--		--	
7.	Subject Matter Specialist	Smt. P.R.Ahir	9429450875	Home Sci.	9300-34800	5400	01/05/01	
8.	Programme Assistant	Sh. B.M.Patel	9427141759	Ani .Sci.	9300-34800	5400	02/12/02	
9.	Computer Programmer	Sh. P.J.Joshi	9426816616	Agri. Engg.	9300-34800	4600	23/12/02	
10.	Farm Manager	Sh. P.R.Patel	9687636758	Farm manager	9300-34800	5400	01/05/01	
11.	Acc./Superintendent	Sh. C.D.Patel	9727928272	O.S	9300-34800	4200	27/09/13	
12.	Stenographer	Sh.V.B.Patel	9429118438	Accountant	5200-20200	2800	01/11/99	
13.	Driver 1	Sh. R.D.Rohit	9726925033	Driver	5200-20200	2800	16/06/08	
14.	Driver 2	Sh. H.G.Valand	7990870661	Driver	5200-20200	2400	01/08/09	
15.	Supporting staff 1	Sh. A.R.Patel	9537558272	Attendant	5200-20200	1900	01/11/99	
16.	Supporting staff 2	--		Farm Attendant	5200-20200	--	--	

1.6. Total land with KVK (in ha): : 20 ha

S. No.	Item	Area (ha)
1	Under Buildings	2.0 ha.
2	Under Demonstration Units	1.0 ha
3	Under Crops	9.0 ha
4	Horticulture	6.0 ha
5	Pond	--
6	Others if any	2.0 ha.

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 /GVP	1998	720 Sq.mt	2874422	--	--	--
2.	Farmers Hostel	ICAR		138 Sq.mt		--	--	--
3.	Staff Quarter	ICAR	1999	154 Sq.mt	1585055	--	--	--
4.	Demonstration Units -- Dairy Demo. Unit	ICAR , TSP ,Valsad	2006	100 Sq.mt	204312	--	--	--
5	Fencing	--		--		--	--	--
6	Bore well	ICAR	2012	300 ft	497095	--	--	--
7	Threshing floor	ICAR	2006	100 Sq.mt	123818	--	--	--
8	Farm godown	ICAR	2010	100 Sq.mt	373168	--	--	--
9	Implement shed	ICAR	2011	140 Sq.mt	300000	--	--	--
10	Soil-water testing lab.	ICAR	2007	--	612387	--	--	--
11	Plant Health Clinic	ICAR	2012	--	999953	--	--	--

## B. Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor	2019	6,50,000	215 hrs.	Working condition.
Tractor Trolley	2019	1,50,000	--	Working condition.
Jeep (Bolero)	2010	477058	239824	Working condition.
Power tiller	2010	1,55,500	--	Working condition.
Motor Cycle	2011	49995	22655	Working condition.

## C. Equipments & AV aids

Name of the equipment / Implements	Year of purchase	Cost (Rs.)	Present status
Computer -3	2007, 2010, 2019	1,02,270 +50,000	Working condition.
Camera -2	1997 & 2007	2675 + 15250	Working condition.
Lap Top -2	2007 & 2012	51,750	Working condition.
P A S system	2009	28057	Working condition.
Handicam	2009	12990	Working condition.
Generator set	2009	37972	Working condition.
Laptop –Lenevo	2012, 2019	36368 +35000	Working condition.
LED –Sony TV	2015	52000	Working condition.

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

Sl.No.	Particulars	Proposed date of meeting
1	Scientific Advisory Committee – Meeting 1	Feb-2022
2	Scientific Advisory Committee – Meeting 2	--

### 2. DETAILS OF JURISDICTION AREA UNDER KVK (No. of blocks) : 06

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

S. No	Farming system/enterprise	Names of talukas covered
1	Agriculture farming systems	Valsad, Dharampur, Pardi, Vapi, Kaparada, Umargam
2	Agri - Horti farming systems	Valsad, Dharampur, Pardi, Vapi, Kaparada, Umargam
3	Agri – Horti -Dairy farming systems	Valsad, Dharampur, Pardi, Vapi, Kaparada, Umargam
4	Agri - Silviculture farming systems	Valsad, Dharampur, Pardi, Vapi, Kaparada, Umargam

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

### a. Soil type

Sl. No.	Agro-climatic Zone	Characteristics
1	South Gujarat Heavy Rainfall Zone -I	Annual Average rainfall 2000-2200 mm Black to medium black soil. Sticky and Heavy soil. Stip slopes cause heavy runoff of rain water resulting into soil erosion.

### b. Topography

S. No.	Agro ecological situation	Characteristics
1	Agro-ecological situation – I & II	- Costal belt - Western part - Medium black to black soil - Hilly ,Shallow ,Undulating land – Eastern part

## 2.3. Soil Types

S. No	Soil type	Characteristics	Area in ha
1	Shallow soil	- Poor fertility & water holding capacity.	--
2	Medium black to black soil	- Sticky and Heavy in nature.	--
3	Hilly ,Shallow ,Undulating land	- Non fertile and mostly non agril land	--
			2,94,412 ha.

## 2.4. Area, Production and Productivity of major crops cultivated in the district (Ref. Year 2020-21)

S. No	Crop	Area (ha)	Production (MT.)	Productivity (Qt./ha)
1	Food grains			
	Paddy (irrigated)	21184	699072	33.00
	Paddy (Unirrigated)	51572	133055	25.80
	Total Paddy	72756	202962	27.89
	Ragi (Finger millet)	4304	4304	10.00
	Jowar	59	0.068	11.56
	Pigeon Pea	7800	5300	6.87
	Urid	6400	4100	6.41
	Mung	400	213	5.32

	Val	2808	2017	7.18
	Gram	2000	1960	9.78
	Groundnut	300	114	3.75
	Niger	3588	15966	4.40
	Sugarcane	7280	54072	742.75
	Total Field crops	108054	22849	
2	Fruit crops			
	Mango	26250	15750	60.00
	Chiku	3345	32513	97.20
	Banana	770	4.274	562.00
	Papaya	145	6254	431.30
	Cashewnut	5590	1811	32.40
	Coconut	2930	2930	100.00
	Total	39030	28694	
3	Vegetables			
	Brinjal	1625	2600	160.00
	Okra	1620	1620	100.00
	Tomato	1405	2950	210.00
	Cucurbits	2831	6228	220.00
	Total	7475	13398	170.00
4	Spices & condiments			..
	Chilly	01	114	114.00

Authentic Source (State / Central Govt):: State Govt. District Agriculture Department.

#### 2.5. Weather data (2021)

Month	Rainfall (mm)	Rainy days	Temperature C		Relative Humidity (%)	
			Maximum	Minimum	Maximum	Minimum
January	--	--	30.4	10.0	81.5	47.9
February	--	--	33.9	12.2	77	34
March	--	--	37.4	15.1	83	45.3
April	--	--	39	20.7	95.6	25.9

May	142	--	36.6	24.2	97.4	44.6
June	364.43	17	33.8	25.1	99.2	64.9
July	883.33	23	32.5	25.7	99.9	71.6
August	681.55	22	31.7	24.7	100	75.13
September	390.39	25	30.8	24.72	100	81.1
October	39.326	6	35.09	21.4	100	50.6
November	7	--	35.02	19.3	99.9	42.1
December	76.5	-	15.4	31.05	100	47.6
Total	2584.53	93	--			

2.6. Production and productivity of livestock, Poultry, Fisheries etc. in the district (Ref. Year 2021-22)

Category	Population (No.)	Production (Per unit)	Productivity (Per unit)
Cattle	247601	69.93	--
Crossbred	38869	26.31	6.137
Indigenous	208732	43.62	1.884
Buffalo	96487	35.45	3.014
Sheep	3433	--	--
Goats	105094	--	--
Poultry	773599	--	--

Source : CDAP-Valsad

2.7. Details of Operational area / Villages

Name of Taluka	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
Kaparada	Kakadkopar, Ambheti, Arnai, Amdha, Khutali, Dhodhadkuva, Ozar, Panas, Ozarada ,Karjun, nandgam, Niloshi	Paddy , Fingermillet, Pulses, Mango, Cashewnut Vegetables , Micro irrigation & Dairy.	Low productivity in all crops. Non availability of improved seeds. Shortage of labour. Heavy infestation of weeds. Water scarcity. Poor milk production	ICM ,INM, IPM, IWM Feed & fodder mgt. Integrated livestock mgt.

Dharampur	Sadadvera, Nanivahiyal, Samarsingi, Panva, Hanmatmal, Mamabhacha	Paddy , Mango, Pulses, Cashewnut Vegetables & Dairy .	Low productivity in all crops. Non availability of improved seeds.Heavy infestation of weeds. Water scarcityPoor milk production	ICM ,INM, IPM, IWM Feed & fodder mgt. Integrated livestock mgt.
Pardi-Vapi	Asma, Chival, Ambach, Pati, Samarpada Kherlav, Lakhmapore, Nevri, Panchlai	Paddy , Sugarcane, Pulses, Vegetables , Mango & Dairy.	Low productivity in all crops. Non availability of improved seeds.Shortage of labour. Heavy infestation of weeds. Poor milk production	ICM ,INM, IPM, IWM Feed & fodder mgt. Integrated livestock mgt.
Umargam	Saronda, Borigam Maroli	Paddy ,Mango, Sugarcane & Vegetable.	Low productivity in all crops. Non availability of improved seeds.Shortage of labour. Water scarcity Soil salinity	ICM ,INM, IPM, IWM
Valsad	Ozar, Juzva, Ronvel	Paddy ,Mango, Sugarcane, Pulses & Vegetable.	Low productivity in all crops. Non availability of improved seeds. Heavy infestation of weeds. Shortage of labour.Soil salinity, Poor milk production	ICM ,INM, IPM, IWM Feed & fodder mgt. Integrated livestock mgt.

## 2.8 Priority thrust areas

Crop/Enterprise	Thrust area
Paddy	Varietal evaluation ,ICM, IWM, INM, IPM
Fingermillet	Varietal evaluation ,ICM, IWM, INM, IPM
Sweetpotato	Varietal evaluation ,ICM, IWM, INM, IPM
Greengram, Chickpea, Indianbean, Pigeonpea	Varietal evaluation ,ICM, IWM, INM, IPM
Cucurbits	Varietal evaluation, Integrated Pest & Disease Management, INM.
Sugarcane	Varietal evaluation ,ICM, IWM, INM, IPM
Brinjal, Chilli	Varietal evaluation ,ICM, IWM, INM, IPM
Fodder crops	Varietal evaluation ICM, IWM, INM, IPM
Livestock	Feed & fodder mgt., Integrated livestock mgt.
Income generation	Vocational training



### 3. TECHNICAL PROGRAMME

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

OFT		FLD	
(1)		(2)	
Number of OFTs	Number of Farmers	Area (ha)	Number of Farmers
10	150	152.75	1165

Training		Extension Activities	
(3)		(4)	
Number of Courses	Number of Participants	Number of activities	Number of participants
Farmers/ farm women -80	2075	Field day - 08	480
Rural Youth -04	95	Kisan mela - 01	1000
Extension Functionaries -07	175	Kisan gosthi - 06	300
Sponsored Trainings- 08	255	Exhibition - 02	2500
Total-99	2600	Film show -10	300
		Farmers Seminar - 05	600
		Group meetings -30	300
		Lectures in Other programme - 25	2500

Seed Production (Qtl.)	Planting material (Nos.)	Livestock, poultry strains and Fish seed prod. (No's)	Soil, water and plant Samples
(5)	(6)	(7)	(8)
Paddy -60.00	Sugarcane - 400.00 qt.	--	Soil Sample - 500
Greengram-0.50	Veg. seedlings – 1,40,000 nos	--	Water Sample - 300
	Fodder Toussecks - 60,000 nos.	--	

### 3.1. B. Operational areas details proposed during 2022-23

S. N	Major crops & enterprises being practiced in cluster villages	Prioritized problems in these crops/ enterprise	Extent of area (Ha/No.) affected by the problem in the district	Names of Cluster Villages identified for intervention	Proposed Intervention (OFT, FLD, Training, extension activity etc.)*
1	Paddy	Non availability of improved seeds. Infestation of stem borer & cutworm	--	Amdha, Dhodhadkuva, Pati , Panchalai, Asma, Pindval	FLD, OFT, Training
2	Gram	Non availability of improved seeds. Heavy infestation of weeds	--	Pati, Dhodhadkuva, Amdha Panchalai Sadadvera Khuntli,	FLD, Training
3	Pigeon pea	Non availability of improved seeds. Heavy infestation of weeds	--	Sadadvera , Khuntli, Amdha,	FLD, OFT, Training
4	Mango	Heavy infestation of fruit fly & hopper	--	Ambach, Kherlav, lakhmapore	FLD, Training
5	Sugarcane	Non availability of improved seeds. Shortage of labour	--	Kharedi, Motivahiyal	FLD, Training
6	Livestock production	Low milk yield, Mastitis disease Shortage of green fodder	--	Sukhala, Khuntli, Amdha , Chival, Panas, Pati	FLD, OFT, Training,
7	Finger millet	Non availability of improved seeds. INM	--	Niloshi Manala, Karjun	FLD, OFT, Training
8	Brinjal, Chilli, Cucurbits	Non availability of improved seeds. Heavy infestation pest & diseases	--	Varoli, Kaparada, Ozarada	FLD, OFT, Training

\* 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	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation	01		02							03
Integrated Nutrient Management	04									04
Integrated Pest Management					01	01				02
TOTAL	05		02		01					09

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

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	vermi culture	Fisheries	TOTAL
Nutrition Management	01							01

B. Details of On Farm Trials/ Technology Assessment proposed during 2022-23

S. N o.	Crop/ enterprise	Prioritized problem	Title of OFT	Technology options	Source of Technology	Name of critical input	Qty per trial	Cost per trial (Rs)	No. of trials	Total cost for the intervention (Rs.)	Parameters to be studied	Team members
1	Paddy	Low yield of Kharif Paddy.	Assessment of Paddy variety for Kharif cultivation	T1 : Use of Hybrid variety (US-312) with local practices T2 : Use of GAR-13 Variety with improved practices T3 : Use of GRH-2 Variety with improved practices	NAU, Navsari	1. Seed of Hybrid variety (US-312) 2. Seed of Improved variety (GAR -13) 3. Seed of Hy. variety (GRH-2)	<ul style="list-style-type: none"> <li>• Hy. Variety (US-312) @ 15 kg/ha</li> <li>• Seed of GAR -13 @ 30 kg/ha</li> <li>• Hy, variety (GRH-2) @ 15 kg/ha</li> </ul>	840	10	8400	Plant height, Productive tillers/hill. Grain yield B:C ratio	03
2	Green gram	Low yield of Summer Green gram.	Assessment of Green gram variety for Summer cultivation	T1 : Use of local variety with local practices T2 : Use of GAM-5 Variety with improved practices T3 : Use of GM-7 Variety with improved practices	NAU, Navsari AAU, Anand	1. Seed of Improved variety (GAM-5) 2. Seed of Improved variety (GM-7) @ 3. IPM Kit /ha	<ul style="list-style-type: none"> <li>• Seed of GAM-5 @ 20 kg/ha : 2000 Rs</li> <li>• Seed of GM-7 @ 20 kg/ha : 2000 Rs</li> <li>• IPM Kit /ha : 1200 Rs</li> </ul>	520	10	5200	Plant height, No of branches per plant Number of seed per pod, Grain yield (q/ha), B:C ratio	03

3	Blackgram	Low yield of Summer Black gram.	Assessment of Blackgram variety for Summer cultivation	T1 : Use of local variety with local practices T2 :Use of G.U.-1 Variety with improved practices T3 : Use of G.U.-3 Variety with improved practices	NAU, Navsari	1. Seed of Improved variety (G.U-1) @ 2. Seed of Improved variety (GU-3) 3. IPM Kit /ha	<ul style="list-style-type: none"> <li>Seed of G.U-1 @ 20 kg/ha : 2500 Rs</li> <li>Seed of G.U-3 @ 20 kg/ha : 2500 Rs</li> <li>IPM Kit /ha : 1200 Rs</li> </ul>	620	10	6200	Plant height, No of pods per plant Number of seed per pod, Grain yield (q/ha) , B:C ratio	03
4	Calf starter feed	Higher cost of calf rearing.	Assessment of cost effective feed for crossbred calf.	T1 Farmers practices – <10 % of body weight milk feed to calf up to 24 week of age. (Farmer practice) T2 : 10 % of body weight milk feed to calf up to 12 week of age T3 : Milk + Calf starter feed feeding	<ul style="list-style-type: none"> <li>GAU, ANAND</li> <li>NDDB , ANAND</li> </ul>	Calf starter feed ( Vardan made by AMUL )	60 kg	1530 (510 Rs / 20 kg Bag )	10	15300	Growth and health of calf	02
5	Brinjal.	Low yield of Brinjal.	Management of Red Mite in Brinjal.	T1 : Farmers practice (No use of acaricide) T2: Spraying of Spiromesifen 22.29 SC (8.4 ml/ 10 lit. water, 96 g a.i./ha , First spray at fruit setting and second spray at 15 days interval. T3 : Propergite57 Ec @ 10 ml/10 lit. at the time of infestation	--  NAU, Navsari, 2018	1. Spiromesifen 22.29 SC. 2. Propergite 57 EC .	100 ml  100 ml	650  200	10	8000	1. Incidence of Pest & its damage on crop, 2. Yield (q/ha), 3. B:C ratio	02

6	Paddy	Low production of summer paddy	Assessment of growth promoter Thiourea on yield of summer paddy	T <sub>1</sub> -Farmer practice (No use of thiourea) (177:86:00 kg NPK/ha) T <sub>2</sub> – RDF ( 100:30:00 kg NPK/ha) T <sub>3</sub> - RDF + Soaking of paddy seed in 1000 ppm thiourea solution (for 1 ha 25 gm / 25 lit) for 12 hrs. for seedlings + Spray of 1000 ppm (1.0gm/1.0 lit) thiourea solution at second leaf stage of paddy nursery	Navsari Agri. Uni.	Seed Thiourea	9.0 kg 5.0 gm	270.00 <u>6.83</u> 276.83	20	5,536.6	1. No. of tiller 2. Yield 3 B:C ratio	
7	Paddy	Low production of kharif paddy	Assessment of efficiency Nauroji LBF and AAU developed Liquid manure	T <sub>1</sub> -Farmer practice (177:86:00 kg NPK/ha) T <sub>2</sub> - Recommended Dose of Fertiliser (RDF)( 100:30:00 kg NPK/ha)  T <sub>3</sub> - RDF + Nauroji LBF i.e Azoto. and PSB @ 1.25 lit/ha as seedling treatment and soil application  T <sub>4</sub> - RDF + AAU developed Liquid manure @ 500 lit/ha as soil application at	Navsari Agri. Uni. and Anand Agri. Uni.	Seed Azoto. PSB Buttermilk Besan Jeggary Barrel	12 kg 0.5 lit 0.5 lit 2 lit. 2 kg 2 kg 01	360.00 60.00 60.00 50.00 140.00 80.00 <u>1000.00</u> 1,750.0	20	35,000	1. No. of tiller 2. Yield 3. Soil fertility 4. B:C ratio	03

				30 & 45 DAP								
8	Paddy <b>(NEW)</b>	Low production of kharif paddy	Assessment of application of IFFCO nano urea in kharif paddy	<p>T<sub>1</sub>-Farmer practice (177:86:00 kg NPK/ha)</p> <p>T<sub>2</sub> - Recommended Dose of Fertiliser (RDF)( 100:30:00 kg NPK/ha) with urea</p> <p>T<sub>3</sub>- 00:30:00 + spraying of IFFCO nano urea @ 4ml /lit at active tillering or 20-25 Days after Transplanting) and 2nd spray at 45 to 50 DAT or before flowering in the crop.</p>	IFFCO and SAU	Seed Nano urea	6 kg 1 lit	180.00 <u>500.00</u> 680.00	20	23, 800	1.No. of tiller 2.Yield 3. Soil fertility 4. B:C ratio	03
9	Paddy <b>(NEW)</b>	Low production of kharif paddy	Assessment of application of silicon in kharif paddy	<p>T<sub>1</sub>-Farmer practice (177:86:00 kg NPK/ha)</p> <p>T<sub>2</sub> - Recommended Dose of Fertiliser (RDF)( 100:30:00 kg NPK/ha) with urea</p> <p>T<sub>3</sub>- Recommended Dose of Fertiliser (RDF)( 100:30:00 kg NPK/ha) + Spraying of 1.5 % potassium silicate at 20-25 Days DAT and at 45 to 50</p>	NAU, Navsari	1.Seed 2.Potassium silicate	6 kg 500 gm	180.00 <u>320.00</u> 500.00	20	10,000	1.No. of tiller 2.Yield 3. Soil fertility 4. B:C ratio	03

				DAT								
10	Mango <b>(NEW)</b>	Low yield of mango	Management of mango hoppers and thrips	<p><b>T1</b> : Arbitrary use of pesticides i.e. Imidachloprid 17.8 SL@ 3 ml/10 (Farmers practices)</p> <p><b>T2</b> : Spray of <i>Verticillium lecanii</i> @ 50 g/ 10 lit as first spray at panicle initiation stage followed by second and third spray at 7 days interval, fourth spray at pea stage and fifth at marble stage</p> <p><b>T3</b> : Spraying of <i>Beuvaria basiana</i> @ 40 g/10 lit</p>	--	<p>1. <i>Verticillium lecanii</i> 5 kg</p> <p>2. <i>Beuvaria basiana</i> 3 kg</p> <p>3. Imidachloprid 200 ml</p>	1000	10	19000	<p>1.Incidence of Pest &amp; its damage on crop,</p> <p>2.Yield (q/ha),</p> <p>3.B:C ratio</p>	02	

### 3.3. Frontline Demonstrations

#### A. Details of FLDs to be organized ( Oilseeds, pulses, cereals, cotton, commercial crops, horticulture crops, vegetables, spices and condiments, fodder crops, etc)

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
1	Paddy	GR-17 (Sardar)	ICM	Improved variety, Seed & Seedling Treatment, Line sowing,	<p>Seed – 30 kg/ha -18000 Rs</p> <p>LBF – Azotobacter 2.50 lit/ha – 5000 Rs.</p> <p>LBF- PSB 2.50 lit/ha – 5000 Rs.</p> <p>Vermicompost – 100 kg/ha – 10,000 Rs.</p> <p>Neem oil - 1.5 lit/ha ( 680 Rs/Lit) 22000 Rs.</p> <p>Pseudomonas - 1.5 Kg/ha ( 360 Rs/ kg) 5000 Rs</p> <p>Pheromone traps-100 (4000 Rs.)</p>	Kharif-2022	20	100	Yield, B:C ratio
2	Paddy	GR-20 (Navsari Kamod)	ICM	Improved variety, Seed & Seedling Treatment, Line sowing	<p>Seed – 30 kg/ha - 5250 Rs</p> <p>LBF – Azotobacter 2.50 lit/ha – 1250 Rs.</p> <p>LBF- PSB 2.50 lit/ha – 1250Rs.</p>	Kharif-2022	5	25	Yield, B:C ratio

					Vermicompost – 100 kg/ha –2500 Rs..				
3	Paddy	GNR-9 (Red Kada Gold)	ICM	Improved variety, Seed & Seedling Treatment, Line sowing	Seed – 30 kg/ha - 5250 Rs LBF – Azotobacter 2.50 lit/ha – 1250 Rs. LBF- PSB 2.50 lit/ha – 1250Rs. Vermicompost – 100 kg/ha –2500 Rs..	Kharif-2022	05	25	Yield, B:C ratio
4	Pigeon Pea	GT-105	ICM	Improved variety, Seed Treatment, INM, IPM	Seed – 20 kg/ha -8000 Rs LBF –Rhizobium 2.5 lit/ha –1250 Rs. LBF- PSB 2.5 lit/ha –1250 Rs. Trichoderma viridi – 2.5 kg/ha-1250 Rs. Vermicompost – 200 kg/ha –5000Rs. Neem oil - 1.5 lit/ha ( 680 Rs/Lit) 5100 Rs. Beuveria - 1.25 kg/ha 880 Rs/kg ) 5500 Rs	Kharif-2022	05	25	Yield, B:C ratio
5	Chickpea	GJG-6	ICM	Improved variety, Line sowing, Seed Treatment, IPM	Seed – 70 kg/ha - 49,000 Rs LBF –Rhizobium 2.5 lit/ha – 2500 Rs. LBF- PSB 2.5 lit/ha –2500 Rs. Neem oil - 1.5 lit/ha ( 680 Rs/Lit) 10200 Rs. Beuveria -1.25 kg/ha - 880 rs/kg 11,000 Rs	Rabi-2022-23	10	100	Yield, B:C ratio
6	Green gram	GM-6	ICM	Improved variety, IPM Line sowing , Seed treatment,	Seed - 20 kg/ha - 22000 Rs LBF –Rhizobium 2.5 lit/ha – 2500 Rs. LBF- PSB 2.5 lit/ha –2500 Rs. Neem oil - 1.5 lit/ha ( 680 Rs/Lit) 10200 Rs. Beuveria - 1.25 kg/ha 880 Rs/kg ) 11000 Rs	Summer-2022	10	100	Yield, B:C ratio
7	Black gram	G.U.-3	ICM	Improved variety, IPM Line sowing , Seed treatment,	Seed - 20 kg/ha - 11000 Rs Neem oil - 1.5 lit/ha ( 680 Rs/Lit) 5100 Rs. Beuveria - 1.25 kg/ha 880 Rs/kg ) 5500 Rs	Summer-2022	05	50	Yield, B:C ratio
8	Indianbean	Guj. Val-2	ICM	Improved variety, Line sowing, Treated seed, Mgt. of pod borer	Seed -20 kg/ha -10000 Rs Neem oil - 1.5 lit/ha -5100 Rs	Rabi—2022-23	05	25	Yield, B:C ratio
9	Paddy	Sardar	INM	Nutrient mgt.	Novel- Spray (03) @10 lit/ha. -6000 Rs.	Kharif-2022	05	25	Yield, B:C ratio
10	Paddy	Sardar	INM	Green manuring	Sunnhamp seed- @30 kg/ha. 6000 Rs.	Kharif-2022	02	10	Yield, B:C ratio, soil fertility



11	Finger millet	Guj.Nagli-9 (GIRA)	ICM	Improved variety, Mgt. of stem borer and blast	Seed - 5 kg/ha - 6000 Rs Neem oil - 1.5 lit/ha . ( 680Rs/Lit) - 15300 Rs. Pseudomonas - 1.5 Kg/ha ( 360 Rs/ kg) 8100 Rs Vermicompost-7500kg (5Rs/kg) 37500 Rs	Kharif-2022	15	75	Yield, Damage, B:C ratio
12	Bittergourd	F1 (Akash)	ICM	Improved variety, Mgt. of fruit fly & Diseases.	Seed @ 1 kg/ha ( 440 Rs/ 50g Pkt.) -22000 Rs. Fruit fly traps @10 Traps/ha -1750 Rs. Neem oil - 1.5 lit/ha ( 680Rs/Lit) 2550 Rs.	Kharif-2022	2.5	25	Yield, B:C ratio
13	Brinjal	DPR	INM	Nutrient mgt.	Mix micronutrients @ 25kg/ha. (450Rs/10kg) - 5625 Rs.	Rabi-2022-23	05	25	Yield, B:C ratio
14	Sugarcane	CON-15073	ICM	Improved variety, Seed treatment, INM	Seed ( 5 tone/ha) – 16750 Rs LBF – Acetobacter 2.7 lit/ha – 270 Rs. LBF- PSB 2.7 lit/ha – 270 Rs. LBF- KMB 2.7 lit/ha – 270 Rs.	Rabi-2022-23	01	10	Yield, B:C ratio
15	SPNF	Plastic Drum 200 Liters	SPNF	For preparation of Jivamrut	Jivamrut Unit ( 1000 rs / Unit ) 20,000 Rs	Nov. 22 to Feb 23	20 Unit	20	Soil Health
16	Fodder sorghum	SSG-501 classic Rangeela	ICM	Improved variety	Seed – @ 70 kg/ha. (82 Rs/ kg) 30000 Rs	Rabi-2022-23	10	100	Fodder yield
17	Feed Supplement	By Pass Fat	Nutrition Mgt.	Feed Supplement	By Pass Fat @ 100 g/animal. /day (188 Rs/ 1kg pkt.) 20000 Rs.	Dec-2022	--	50	Milk yield, B:C ratio
18	Mushroom	Pleurotus spp.	ICM	Improved variety	Seed and Plastic bags- (1000 Rs / unit) – 40000 Rs	Sept & Dec-2022	--	40	Yield, B:C ratio
19	Plug nursery	-	Income generation	Seedling raising in Plastic tray	Plastic Tray- 20 no/ unit (15 Rs/ tray) - 7500 Rs.	Feb-2022	-	25	Yield, B:C ratio
20	Kitchen garden	Seeds & seedlings of vegetables	Mal nutrition	Improved Variety	Seed and seedlings of different Vegetables - 2500 Rs	Nov-2022	0.25	25	Yield, B:C ratio
21	Vermi compost	Eisenia foetida	Income generation	Vermicomposting	Earthworms 2 kg /unit (200Rs/kg) -8000 Rs.	Oct-2022	-	20	Yield, B:C ratio
22	Waste decomposer	Waste decomposer	INM	Composting with Waste decomposer	Waste decomposer- @25 Rs/bottle. 2500 Rs.	Kharif-2022	--	100	Compost production, B:C ratio

Sponsored Demonstration – Nil

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
Battery operated sprayer	Vegetable	Summer 2022	20	20.00	Sprayer	Input cost reduction through use of Bio pesticides
Chisel plough	Paddy	Kharif-2022	10	2.00	Tillage operation with chisel plough	Soil health improvement
Paddy Thresher	Paddy	Rabi-2022	25	25.00	Paddy Thresher	Drudgery reduction
		Total	55	47.00		

b. Livestock and Fisheries Enterprises-Nil

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

Enterprise	Technology demonstrated	No. of farmers	No. of units	Critical inputs	Performance parameters / indicators
Mushroom	Pleurotus spp.	40	40	Seed and Plastic bags- (1000 Rs / unit) – 40000 Rs	Yield, B:C ratio
Plug nursery	-	25	25	Plastic Tray- 20 no/ unit (15 Rs/ tray) - 7500 Rs.	Yield, B:C ratio
Kitchen garden	Seeds & seedlings of different vegetables	25	25	Seed and seedlings of different vegetables - 2500 Rs	Yield, B:C ratio
Vermi compost	Eisenia foetida	20	20	Earthworms 2 kg /unit (200Rs/kg) -8000 Rs.	Yield, B:C ratio

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

#### A. ON Campus

Thematic Area	No. of Courses	No. of Participants						Grand Total
		Others			SC/ST			
		Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>								
<b>I Crop Production</b>								
Integrated crop management	11	--	--	--	205	160	365	365
<b>II Horticulture</b>								
Cultivation of Fruit crops	02	--	--	--	50	--	50	50
Nursery Management	02	--	--	--	20	30	50	50
<b>III Soil Health and Fertility Management</b>								
Production and use of organic inputs	02	--	--	--	30	20	50	50
Micro nutrient deficiency in crops	01	--	--	--	15	10	25	25
Soil and Water Testing	01	--	--	--	15	10	25	25
Nutrient management	01	--	--	--	15	10	25	25
<b>IV Livestock Production and Management</b>								
Dairy management	02	--	--	--	10	40	50	50
Feed management	03	--	--	--	15	60	75	75
Disease management	02	--	--	--	10	40	50	50
<b>V Home Science/Women empowerment</b>								
Income generation activities for empowerment of rural Women	02	--	--	--	--	50	50	50
Nutritional gardening	01	--	--	--	--	25	25	25
Nursery management	01	--	--	--	--	25	25	25
<b>VI Agril. Engineering</b>								
Installation and maintenance of micro irrigation systems	02	--	--	--	50	--	50	50
Use of Plastics in farming practices	02	--	--	--	50	--	50	50
Custom Hiring Centre Management	01	--	--	--	25	--	25	25

VII Plant Protection									
Integrated pest –disease management	03	--	--	--	75	-	75	75	
Bio-control for pests and diseases	01	--	--	--	25	-	25	25	
X Capacity Building and Group Dynamics									
Leadership development	01	--	--	--	20	05	25	25	
Formation and management of SHGs	02	--	--	--	20	30	50	50	
<b>TOTAL</b>	<b>43</b>				<b>650</b>	<b>515</b>	<b>1165</b>	<b>1165</b>	
(B) Rural Youth									
Power tiller repair and maintenance	01	--	--	--	20	-	20	20	
Nursery management	01	--	--	--	--	25	25	25	
Mushroom Production	02				15	35	50	50	
<b>TOTAL</b>	<b>04</b>	--	--	--	<b>35</b>	<b>60</b>	<b>95</b>	<b>95</b>	
I Extension Personnel									
Integrated pest management	01	--	--	--	25	-	25	25	
Nutritional gardening	01	--	--	--	--	25	25	25	
Formation of FIGs	01	--	--	--	25	--	25	25	
<b>TOTAL</b>	<b>03</b>	--	--	--	<b>50</b>	<b>25</b>	<b>75</b>	<b>75</b>	
<b>Grand Total</b>	<b>50</b>				<b>735</b>	<b>600</b>	<b>1335</b>	<b>1335</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	03	--	--	--	45	30	75	75	
Water management	02	--	--	--	30	20	50	50	
Nursery management	01	--	--	--	15	10	25	25	
II Horticulture									

Production of low volume and high value crops	02	--	--	--	30	20	50	50
Off-season vegetables	02	--	--	--	30	20	50	50
III Soil Health and Fertility Management								
Soil management	01	--	--	--	15	10	25	25
Nutrient Management	02	--	--	--	30	20	50	50
Production and use of organic inputs	03	--	--	--	45	30	75	75
Soil and Water Testing	01	--	--	--	15	10	25	25
IV Livestock Production and Management								
Dairy management	01	--	--	--	05	20	25	25
Feed management	01	--	--	--	05	20	25	25
Disease management	01				05	20	25	25
V Home Science/Women empowerment								
Mushroom production Technology	02	--	--	--	--	50	50	50
Household food security	01	--	--	--	--	25	25	25
Value addition	01	--	--	--	--	25	25	25
VI Agril. Engineering								
Soil and water conservation	01	--	--	--	30	--	30	30
Drudgery reduction	01	--	--	--	25	--	25	25
Micro irrigation	02	--	--	--	50	--	50	50
Use of non conventional sources of energy	01	--	--	--	25	--	25	25
VII Plant Protection								
Integrated pest & disease management	05	--	--	--	100	25	125	125
Bio-control for pests and diseases	01	--	--	--	20	05	25	25
X Capacity Building and Group Dynamics								
Entrepreneurial development of farmers	01	--	--	--	10	15	25	25
Formation and management of FIGs	01	--	--	--	10	15	25	25

TOTAL	<b>37</b>				<b>540</b>	<b>390</b>	<b>930</b>	<b>930</b>
(B) Rural Youth	00	--	--	--	00	00	00	00
(C) Extension Personnel								
Production technology of Kharif crop	01	--	--	--	20	05	25	25
Production technology of Rabi pulse crop	01	--	--	--	20	05	25	25
Health management of crossbred cows.	01	--	--	--	25	--	25	25
Soil and water conservation	01	--	--	--	25	--	25	25
Total	<b>04</b>	--	--	--	<b>90</b>	<b>10</b>	<b>100</b>	<b>100</b>
G. TOTAL	<b>41</b>	--	--	--	<b>630</b>	<b>400</b>	<b>1030</b>	<b>1030</b>

C. Consolidated table (ON and OFF Campus)

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I Crop Production								
Weed management	03	--	--	--	45	30	75	75
Water management	02	--	--	--	30	20	50	50
Nursery management	01	--	--	--	15	10	25	25
Integrated crop management	11	--	--	--	205	160	365	365
II Horticulture								
Cultivation of Fruit	02	--	--	--	50	--	50	50
Nursery Management	02	--	--	--	20	30	50	50
Production of low volume and high value crops	02	--	--	--	30	20	50	50
Off-season vegetables	02	--	--	--	30	20	50	50
III Soil Health and Fertility Management								

Production and use of organic inputs	05	--	--	--	75	50	125	125
Micro nutrient deficiency in crops	01	--	--	--	15	10	25	25
Soil and Water Testing	02	--	--	--	30	20	50	50
Nutrient management	03	--	--	--	50	25	75	75
Soil management	01	--	--	--	15	10	25	25
IV Livestock Production and Management								
Dairy management	03	--	--	--	15	60	75	75
Feed management	04	--	--	--	20	80	100	100
Disease management	03				15	60	75	75
V Home Science/Women empowerment								
Income generation activities for empowerment of rural Women	02	--	--	--	--	50	50	50
Nutritional gardening	01	--	--	--	--	25	25	25
Mushroom production Technology	02	--	--	--	--	50	50	5
Nursery management	01	--	--	--	--	25	25	25
Household food security	01	--	--	--	--	25	25	25
Value addition	01	--	--	--	--	25	25	25
VI Agril. Engineering								
Custom Hiring Centre Management	01	--	--	--	25	--	25	25
Installation and maintenance of micro irrigation systems	02	--	--	--	50	--	50	50
Use of Plastics in farming practices	02	--	--	--	50	--	50	50
Soil and water conservation	01	--	--	--	30	--	30	30
Drudgery reduction	01	--	--	--	25	--	25	25
Micro irrigation	02	--	--	--	50	--	50	50
Use of non conventional sources of energy	01	--	--	--	25	--	25	25
VII Plant Protection								

Integrated pest disease management	08	--	--	--	160	25	185	185
Bio-control of pests and diseases	02	--	--	--	40	05	45	45
X Capacity Building and Group Dynamics								
Leadership development	01	--	--	--	20	05	25	25
Formation and management of SHGs	02	--	--	--	20	30	50	50
Entrepreneurial development of farmers	01	--	--	--	10	15	25	25
Formation and management of FIGs	01	--	--	--	10	15	25	25
<b>TOTAL</b>	<b>80</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>1170</b>	<b>905</b>	<b>2075</b>	<b>2075</b>
(B) Rural Youth								
Power tiller repair and maintenance	01	--	--	--	20	-	20	20
Nursery management	01	--	--	--	--	25	25	25
Mushroom Production	02	--	--	--	15	35	50	50
<b>TOTAL</b>	<b>04</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>35</b>	<b>60</b>	<b>95</b>	<b>95</b>
(C) Extension Personnel								
Production technology of Kharif crop	01	20	05	25	20	05	25	25
Production technology of Rabi pulse crop	01	20	05	25	20	05	25	25
Integrated pest management	01	--	--	--	25	--	25	25
Nutritional gardening	01	--	--	--	--	25	25	25
Formation of FIGs	01	--	--	--	25	--	25	25
Health management of crossbred cows.	01	--	--	--	25	--	25	25
Soil and water conservation	01	--	--	--	25	--	25	25
<b>Total</b>	<b>07</b>				<b>140</b>	<b>35</b>	<b>175</b>	<b>175</b>
<b>Grand. TOTAL</b>	<b>91</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>1345</b>	<b>1000</b>	<b>2345</b>	<b>2345</b>

Details of training programmes attached in Annexure -I



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

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field day	08	420	270	690	10	--	10	430	270	700
Kisan mela	01	600	400	1000	12	03	15	612	403	1015
Kisan gosthi	06	300	200	500	08	02	10	310	202	510
Exhibition	02	1500	1000	2500	10	04	14	1510	1004	2514
Film show	12	200	100	300	--	--	--	200	100	300
Farmers Seminar	05	400	200	600	07	03	10	407	203	610
Group meetings	30	200	100	300	--	--	--	200	100	300
Lectures delivered	25	1500	1000	2500	25	05	30	1525	1005	2530
Newspaper coverage	04	--	--	--	--	--	--	--	--	--
Radio talks	06	--	--	--	--	--	--	--	--	--
TV talks	04	--	--	--	--	--	--	--	--	--
Popular articles	06	--	--	--	--	--	--	--	--	--
Extension literature	05	--	--	--	--	--	--	--	--	--
Advisory Services	300	250	50	300	10	5	15	260	55	315
Sci. visit to farmers field	25	80	40	120	10	04	14	90	44	134
Farmers visit to KVK	1200	1000	200	1200	--	--	--	1000	200	1200
Exposure visits	05	75	25	125	--	--	--	75	25	125
Ex-trainees sammelan	01	--	100	100	--	--	--	--	100	100
Animal health camp	03	60	90	150	10	--	10	70	90	160
Soil health Camp	1	25	25	50	1	0	1	26	25	51
Soil test campaigns	1	30	20	50	2	0	2	32	20	52
Celebration of important days (specify) world soil day	1	50	25	75	2	0	2	52	25	77
Mahila mandals meetings	01	--	25	25	--	--	--	--	25	25

Celebration of imp. days	03	200	100	300	05	02	07	205	102	307
Krishi mohotsava	04	1000	800	1800	10	02	12	1010	802	1812
Pre kharif workshop	01	150	100	250	02	--	02	152	100	252
Pre rabi workshop	02	120	100	220	03	--	03	123	100	223

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

#### SEED MATERIALS

No.	Crop	Variety	Quantity (qtl.)
CEREALS	Paddy	Sardar	60.00
		Greengram	0.50

#### PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
VEGETABLES	Brinjal	Hybrid	80,000
	Tomato	Hybrid	20,000
	Chilli	Hybrid	40,000
	Cabbage	Hybrid	5,000
	Cauliflower	Hybrid	5,000
PLANTATION CROP	Sugarcane	Co.N-13073, Co.N-15073	400 qt.
OTHER (Specify)	Fodder tousseks	Co - 4	60,000 (tousseks)

#### Bio-products

Sl. No.	Product Name	Species	Quantity	
			Kg/No.	Lit
Bio Agents 1.	Fruitfly traps	Methyl Euginol traps	600 nos.	--

#### LIVESTOCK

Sl. No.	Type	Breed	Quantity (No.)
1	cow	H.F.cross breed	02

VALUE ADDED PRODUCTS- Nil

3.7. Action plan for management of KVK instructional farm

Total land with KVK : 20 ha                      Cultivable land : 16 ha ( Irrigated : 12 ha, Rainfed : 04 ha)

Micro-irrigation facility available at KVK : No.

S. No.	Name of crop	Area (ha)	Variety	Date of sowing / Planting	Date of harvest	Expected yield (q)
1	Crops					
	Sugarcane	0.50	CoN-13073,15073	Oct-Nov.	Dec.-Jan.	400
2	Fruit crops- Mango	3.00	Kesar,Alphanso	-	May	60
3	Vegetable crops	0.10				
	Brinjal		Mukta round	Nov.	-	80000 Seedlings
	Chilly		Eagle (Rasi seeds)	Nov.	-	40000 Seedlings
	Tomato		N.S.-629 (Namdhari seeds)	Nov.	-	20000 Seedlings
4	Seed production					
	Paddy	3.00	Sardar	June-july	Sept. - Oct.	60
	Sugarcane	0.25	CoN-13073	Oct-Nov.	Dec.-Jan.	250
	Greengram	0.10	GM-6	Feb	May	0.5
5	Fodder crops- Hy.Napier	1.00	CO-4	June	Oct.	60000
6	Technology cafeteria*	1.00	-	-	-	-
7	Nutritional Garden*	0.01				
8	IFS Model*	1.00	-	-	-	-
9	Agro forestry- Casuarina	4.00	CH-1,C.H.-2	June	-	-
10	Vermicompost	0.10	compost	-	-	500 qt.
11	Vermiculture	0.10	Culture	-	-	03 qt.
12	SPNF	0.25	Sugarcane-Co-N-13073	Dec	Dec	200 qt.

\*May add separate table/information if necessary

#### 4. Literature to be Developed/Published

##### A. Literature developed/published

S.No.	Topic	Number
1	Research paper each scientist	01
2	Technical reports	02
3	News letters	02
4	Training manual all discipline	02
5	Popular article	04
6	Extension literature	06
Total		17

##### B. 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	Video Clipping	Impact of Skill Training	01
2	Video Clipping	Seed treatment in paddy	01
3	Video Clipping	Nursery management	01
4	Video Clipping	Modified mat nursery method for paddy	01
5	Video Clipping	Management of Fruitfly	01
6	Video Clipping	KVK in service of farmers	01
7	Video Clipping	Silage preparation	01

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

S. No.	Type of social media platform	Title / Purpose	Number
1	YouTube Channel	KVK Valsad	01
2	Facebook page	KVK- Ambheti Valsad	01
3	Mobile Apps	--	--
4	WhatsApp groups	Technical Awereness and advisories	06
5	Twitter Account	KVK valsad	01

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

S. No.	Title of success story / case study identified	Proposed month for case/story to be prepared/ developed
1	Impact of MIS	August 2022
2	YMV resistant variety (GAM-5)- Boost the productivity of summer moong in valsad district	July-2022
3	Vegetable Nursery management	Feb-2023
4	Impact of nursery training	June-2022

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

A. Practicing Farmers

- I. PRA
- II. Field level observations
- III. Farmer group discussions
- IV. Poor yield at farmers level
- V. Existing cropping system

A. Rural Youth

- I. Farmer group discussions
- II. Existing cropping system

B. In-service personnel

- I. Farmer group discussions
- II. Poor yield at farmers level
- III. Existing cropping system

5.2 Indicate the methodology for identifying OFTs/FLDs

For OFT : i) PRA

- ii) Problem identified
- iii) Field level observations
- iv) Farmer group discussions

For FLD :

- i) New variety/technology
- ii) Poor yield at farmers level
- iii) Existing cropping system

5.3 Field activities

i. Name of villages identified/adopted with block name (from which year) -

Block	Village	Year
Kaparada	Khuntali, Amdha. Ozarada	2012
	Nandgam, Dhodhadkuva,	2015
Dharampur	Sadadvera , Pindval	2015
	Mamabhacha, Gorakhada, Rajpuri	2017
Pardi	Asma, Arnala, Pati, Panchalai,	2014
	Lakhmapor	2015
Valsad	Ozar,	2015
Umargam	Borigam ,Saronda	2015
Vapi	Koparli, Kaval, Tambadi	2012

- ii. No. of farm families selected per village: 50
- iii. No. of survey/PRA conducted: 02
- iv. No. of technologies taken to the adopted villages-10
- 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

Sl.No.	Name of organization	Nature of Linkage
1	Navsari. Agril. Uni. Navsari	Provides expertise for latest technology and supply of improved seeds of paddy, sugarcane, indian bean and sweetpotato.
2	ATMA	Training and organizing farmers shibir.
3	Dept. of Agril. Valsad.	Involvement of kvk experts for delivering lectures, farmers seminars and extension functionaries' trainings.
4	Dept. of Horticulture, Valsad	Involvement for lectures delivering in technology week.

5	Dept. of Animal husbandry, Valsad	Joint organization of cattle treatment camp & Pashupalan shibir
6	Dept. of Forest, Valsad, Silvassa	Joint organization of ext. functionaries training.
7	Vasudhara dairy	Joint implementation of farmers, farm women & ext. functionaries training.
8	Rural Technology Institute , Pardi	Joint implementation of vocational trainings.
9	J. N.P.C. Trust, Kaparada	Joint implementation of farmers trainings & seminars.
10	BAIF, Kaparada	Joint implementation of farmers trainings
11	Jain Irrigation Co , Dharampur	Soil and water sample analysis.
12	Disrtict Industrial Centre,Valsad	Approval of loan case of trainees for bank loan.

#### 6.2. Details of linkage with ATMA

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

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

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

#### 6.5. Additional Activities planned including sponsored projects (NARI/ DAESI/ DAMU/ DFI/ PKVY, Skill Trainings, 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	DAMU	Agro met advisory	100	0	Smt. P.B.Ratia, Kum. Aditi solanki
		FAP	20		
2	NARI	Training	05	--	Smt. P.R.Ahir , Sh.P.R.Patel
		Demonstration	100		
3	SPNF	Training	07	SPNF	Training
		Method Demonstration	20ha		Method Demonstration

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 2022-23	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)
Lakhmapore	91	Greenfodder, IPM in mango Improved variety and IPDM in Pulse crops Improved variety and IPDM in Paddy Nutritional Garden	75	71500	83500
Khutali	394	Greenfodder, Water conservation Improved variety and IPDM in Pulse crops Improved variety and IPDM in Paddy Nutritional Garden Vermicompost Mushroom production	225	83400	94000

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	Amdha, Khuntli, Panas, Nanivahiyal, Lakhmapor	Training	150
		Demonstration	100

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

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



#### 6.5.5. Details of activities planned under TSP

S. No.	Name of the village	Activities planned	No. of families to be covered
1	BLOCK-KAPARADA Kakadkopar, Ambheti, Arnai, Amdha, Khutali, Dhodhadkuva, Ozar, Panas, Ozarada ,Karjun, nandgam, Niloshi	ICM ,INM, IPM, IWM Feed & fodder mgt. Integrated livestock mgt.	50 Families in each village
2	BLOCK-DHARAMPUR Sadadvera, Nanivahiyal, Samarsingi, Panva, Hanmatmal, Mamabhacha	ICM ,INM, IPM, IWM Feed & fodder mgt. Integrated livestock mgt.	50 Families in each village
3	BLOCK-PARDI/VAPI Asma, Chival, Ambach, Pati, Samarpada Kherlav, Lakhmapore, Nevri, Panchlai	ICM ,INM, IPM, IWM Feed & fodder mgt. Integrated livestock mgt.	50 Families in each village
4	BLOCK-UMARGAM Saronda, Borigam Maroli	ICM ,INM, IPM, IWM	50 Families in each village
5	BLOCK-VALSAD Ozar, Juzva, Ronvel	ICM ,INM, IPM, IWM Feed & fodder mgt. Integrated livestock mgt.	50 Families in each village
6	BLOCK-VAPI Koparli, Kaval, Tambadi	ICM ,INM, IPM, IWM Feed & fodder mgt. Integrated livestock mgt.	50 Families in each village

#### 6.5.6. Details of activities planned under Krishi Kalyan Abhiyan (KKA)-Nil

#### 6.5.7. Details of seed production planned under Seed Hub on Pulses- Nil

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

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

2. No. of existing FPOs / FPCs to be facilitated : 01

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

S. No	Name of the FPO / FPC	No. of members	Major activities of FPO / FPC	Type of support to be provided by KVK
1	Pardi	300	Mango	Technical guidance

#### 6.7. Activities planned in respect of developing Integrated Farming System (IFS) Models on farmers' fields during 2022-23

S. No	Name of the village	No. of IFS models to be identified / developed	Major components of IFS model
1	Khutli	01	Dairy
2	Panas	01	Dairy
3	Lakhmapor	01	Dairy

7.0 Convergence with other agencies and line departments in the district:

S. No.	Name of the department / Agency	Type of convergence	Area (ha) / No. of farmers to be benefited
1	Dept. of Agril. Valsad.	Involvement of kvk experts for delivering lectures, farmers seminars and extension functionaries trainings.	1500 farmers
2	Dept. of Horticulture, Valsad	Involvement for lectures delivering in technology week.	250 farmers
3	Dept. of Animal husbandry, Valsad	Joint implementation of organizing cattle treatment camp & farmers shibir	1000 farmers
4	Dept. of Forest, Valsad	Joint implementation of organizing extension functionaries training.	200 employee
5	ATMA, Valsad	Involvement of kvk experts for delivering lectures in training, FFS, seminars, etc.	1500 farmers
6	RTI, Pardi	Joint implementation of organizing vocational training.	50 farmers

8. Innovator Farmer's Meet 2022

Sl.No.	Particulars	Details	Expected No. of participants
1	Farm innovators meet planned	Month proposed- Sept-2022	40

9. Utilization of hostel facilities

S. No.	Month	No. of days to be utilized
1	Production technology of paddy	01
2	Production technology of paddy	01
3	Production technology of pigeon pea	01
4	Production technology of gram	01
5	Production technology of green gram	01
6	Cultivation of Fruit	02
7	Nursery Management	02
8	Dairy management/ diseases management	02
9	Improved feed and fodder mgt. for cattle	02
10	Improved feed and fodder mgt. for cattle	02
11	Improved feed and fodder mgt. for cattle	02

12	Dairy management	02
13	Method of soil and water sample collection and analysis	01
14	Identification and correction of Micronutrient deficiencies	01
15	Preparation and use of Liquid organic manures	02
16	Installation and maintenance of micro irrigation systems	02
17	Use of Plastics in farming practices	02
19	Income generation activities for empowerment of rural Women	04
20	Gender Mainstreaming through SHGs	02
21	Mushroom production Technology	04
22	Mushroom production Technology	04
23	Nursery management	02
24	IPDM in cucurbit vegetables	02
25	Management of pest –disease of paddy	04
26	IPM in pulse crops	02
27	Management of pest-disease of mango	02
28	Bio control of pest in vegetables	02
29	Leadership development	02
30	Formation and management of SHGs	02
31	Nursery raising	02
32	SPNF	05

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	05	Video conferencing	125
2	Farmers scientist's interaction	03	Video conferencing	150
3	Farmers seminars	02	Video conferencing	200
4	Expert lectures	04	Video conferencing	400
5	Any other (Pl. specify)	--	--	--

11. Details of collaborative applied research projects planned if any

S. No.	Name of the research project	Funding agency	Collaborating organizations	Year of commencement	Major activities planned
1	Biotech Kisan Hub	Dept. of Biotechnology	DAMPR- ICAR-ANAND Zandu Foundation	2018-19	Demo of medicinal crop

Annexure - I

**Training Programmes**

(i) Farmers & Farm women (On Campus)

Date	Clientele	Title of the training programme	Duration in days	Number of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
<b>Crop Production</b>										
25/05/2022	PF/FW	Production technology of paddy	01	20	20	40	20	20	40	40
26/05/2022	PF/FW	Production technology of paddy	01	20	20	40	20	20	40	40
01/06/2022	PF/FW	Production technology of paddy	01	20	20	40	20	20	40	40
02/06/2022	PF/FW	Production technology of paddy	01	20	20	40	20	20	40	40
04/06/2022	PF/FW	Production technology of pigeon pea	01	20	10	30	20	10	30	30
06/06/2022	PF/FW	Production technology of pigeon pea	01	20	10	30	20	10	30	30
01/11/2022	PF/FW	Production technology of gram	01	20	15	35	20	15	35	35
02/11/2022	PF/FW	Production technology of gram	01	20	15	35	20	15	35	35
06/02/2023	PF/FW	Production technology of green gram	01	15	10	25	15	10	25	25
07/02/2023	PF/FW	Production technology of green gram	01	15	10	25	15	10	25	25
08/02/2023	PF/FW	Production technology of green gram	01	15	10	25	15	10	25	25
<b>Horticulture</b>										
19-20/04/2022	PF/FW	Off-season vegetables cultivation	02	15	10	25	15	10	25	25
11-14/06/2022	PF/FW	Cultivation of Fruit	02	25	--	25	25	--	25	25

25-28/09/2022	PF/FW	Nursery Management	02	15	10	25	15	10	25	25
15-16/02/2023	PF/FW	Nursery Management	02	25	--	25	25	--	25	25
Livestock prod.										
21/04/2022	PF/FW	Feed management	01	05	20	25	05	20	25	25
10/05/2022	PF/FW	Feed management	01	05	20	25	05	20	25	25
20/10/2022	PF/FW	Dairy management	01	05	20	25	05	20	25	25
10/11/2022	PF/FW	Disease management	01	05	20	25	05	20	25	25
03/02/2023	PF/FW	Feed management	01	05	20	25	05	20	25	25
23/02/2023	PF/FW	Dairy management	01	05	20	25	05	20	25	25
15/03/2023	PF/FW	Disease management	01	05	20	25	05	20	25	25
Soil Health										
11- 12/05/2022	PF	Method of soil and water sample collection and analysis	02	15	10	25	15	10	25	25
15/06/2022	PF	Integrated nutrient management in paddy	01	15	10	25	15	10	25	25
25/08/2022	PF	Application of NAUROJI novel in vegetable crops	01	15	10	25	15	10	25	25
22-23/09/ 2022	PF	Identification and correction of Micronutrient deficiencies	02	15	10	25	15	10	25	25
12-13/10/ 2022	PF	Preparation and use of Liquid organic manures	02	15	10	25	15	10	25	25
Agril. Engg.										
01/05/2022		Custom Herring Centre Managment	01	25	--	25	25	--	25	25
2-3/07/2022	PF	Use of Plastics in farming practices	02	25	--	25	25	--	25	25
2-3/10/2022	PF	Installation and maintenance of micro irrigation systems	02	25	--	25	25	--	25	25
15-16/10/2022	PF	Use of Plastics in farming practices	02	25	--	25	25	--	25	25

26-27/11/2022		Installation and maintenance of micro irrigation systems	02	25	--	25	25	--	25	25
Home Science										
21-22/04/2022	PFW	Vermi composting	02	--	25	25	--	25	25	25
12-13/05/2022	PFW	Income generation activities for empowerment of rural Women	02	--	25	25	--	25	25	25
06-07/01/2023	PFW	Nutritional gardening	02	--	25	25	--	25	25	25
23-25/02/2023	PFW	Nursery management	02	--	25	25	--	25	25	25
Plant protection										
02-03/06/2022	PF	IPDM in cucurbit vegetables	02	20	-	20	20	-	20	20
05-06/08/2022	PF	Management of pest –disease of paddy	02	20	-	20	20	-	20	20
15-16/10/2022	PF	Biocontrol of Pest Dis. in pulse crops	02	20	-	20	20	-	20	20
26-27/11/2022	PF	Management of pest-disease of mango	02	20	-	20	20	-	20	20
Capacity Building										
17-18/05/2022	PF	Leadership development	02	20	05	25	20	05	25	25
07-08/07/2022	PFW	Formation and management of SHGs	02	20	05	25	20	05	25	25
10-11/12/2022	PFW	Formation and management of SHGs	02	20	05	25	20	05	25	25

ii) Farmers & Farm women (Off Campus)

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
Crop Production										
07/06/2022	PF	Nursery management in paddy	01	15	10	25	15	10	25	25
11/07/2022	PF	Weed management in paddy	01	15	10	25	15	10	25	25
22/07/2022	PF	Water management in pigeon pea	01	15	10	25	15	10	25	25
28/11/2022	PF	Weed management in gram	01	15	10	25	15	10	25	25
16/02/2023	PF	Water management in green gram	01	15	10	25	15	10	25	25
28/02/2023	PF	Weed management in green gram	01	15	10	25	15	10	25	25
Horticulture										
02/07/2022	PF/FW	Production of low volume and high value crops	01	15	10	25	15	10	25	25
23/08/2022	PF	Off-season vegetables	01	25	--	25	15	10	25	25
29/09/2022	PF	Micro irrigation systems of orchards	01	25	--	25	15	10	25	25
07/10/2022	PF/FW	Plant propagation techniques	01	15	10	25	15	10	25	25
Live Stock Production.										
20/07/2022	PF/FW	Feed management	01	05	20	25	05	20	25	25
26/08/2022	PF/FW	Dairy management	01	05	20	25	05	20	25	25
29/09/2022	PF/FW	Disease management	01	05	20	25	05	20	25	25
Soil Health										
20/05/2022	PF	Raising of paddy seedling in modified dapog nursery	01	15	10	25	15	10	25	25
08/06/2022	PF	Soil management in kharif paddy.	01	15	10	25	15	10	25	25
23/06/2022	PF	Application of Novel- Banana psuedostem sap in paddy	01	15	10	25	15	10	25	25
20/07/2022	PF	Application of IFFCO nano urea in paddy crop	01	15	10	25	15	10	25	25
14/09/2022	PF	Application of waste decomposer	01	15	10	25	15	10	25	25

16/11/2022	PF	Production of liquid organic manures	01	15	10	25	15	10	25	25
25/11/2022	PF	Method of soil and water sample collection	01	15	10	25	15	10	25	25
Agril. Engg.										
11/05/2022	PF	Soil and water conservation	01	25	--	25	25	--	25	25
17/09/2022	PF	Drudgery reduction in paddy threshing	02	25	--	25	25	--	25	25
21/10/2022	PF	Drudgery reduction in paddy threshing	01	25	--	25	25	--	25	25
15/12/2022	PF	Use of non conventional sources of energy	01	25	--	25	25	--	25	25
9/02/2023	PF	Micro irrigation	01	25	--	25	25	--	25	25
Home Science										
07-08/07/2022	PFW	Value addition	02	--	--	--	--	25	25	25
03/08/2022	PFW	Nutritional gardening	01	--	--	--	--	25	25	25
18-19/10/2022	PFW	Mushroom production Technology	02	--	--	--	--	25	25	25
24-25/11/2022	PFW	Mushroom production Technology	02	--	--	--	--	50	50	50
Plant Protection										
27-28/08/2022	PF	Integrated pest - disease mgt. in paddy	02	20	05	25	20	05	25	25
08-09/09/2022	PF	Management of pest and disease of finger millet	02	20	05	25	20	05	25	25
06-07/10/2022	PF	Integrated pest - disease mgt. in pigeonpea	02	20	05	25	20	05	25	25
12-13/11/2022	PF	Integrated pest - disease mgt. in vegetables	02	20	05	25	20	05	25	25
23-24/02/2023	PF	Bio control of pest in chickpea	02	20	05	25	20	05	25	25
10-11/03/2023	PF	Management of fruitfly in mango	02	20	05	25	20	05	25	25
Capacity Building										
11/06/2022	PFW	Entrepreneurial development of farmers	01	10	15	25	10	15	25	25
26/11/2022	PF	Formation and management of FIGs	01	10	15	25	10	15	25	25



i) Vocational training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title*	Month	Duration (days)	No. of Participants			SC/ST Participants			Grand Total
					M	F	T	M	F	T	
Farm Machinery	Farm mechanization	Power Tiller Repair and Maintenance	Sept-2022	10	20		20	20		20	20
Entrepreneurship development	Vocational training	Mushroom production Technology	April-2022	04	05	20	25	05	20	25	25
		Mushroom production Technology	Sept-2022	04	10	15	25	10	15	25	25
		Nursery raising	Oct.-2022	04	--	25	25	--	25	25	25
		TOTAL			35	60	95	35	60	95	95

iii) Training programme for Extension Functionaries

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			Grand Total
				M	F	T	M	F	T	
On Campus										
13-14/04/2022	Field workers of NGO	Integrated pest management	02	25	-	25	25	-	25	25
16-17/06/2022	ICDS workers	Nutritional gardening	02	--	25	25	--	25	25	25
08-09/09/2022	SHGs Group Leader	Formation of FIGs	02	25	--	25	25	--	25	25
11/04/2022	VLWs	Production technology of Kharif crop	01	20	05	25	20	05	25	25
14/10/2022	VLWs	Production technology of Rabi pulse crop	01	20	05	25	20	05	25	25
OFF Campus										
09/05/2022	Paravet workers	Health management of crossbred cows.	01	25	--	25	25	--	25	25
26/06/2022	Soil & water conservation Dept. Supervisors	Soil & water conservation	01	25	--	25	25	--	25	25
		Total - 07	--	140	35	175	140	35	175	175

IV) Sponsored programme

Discipline	Sponsoring agency	Clientele	Title of the training programme	No. of course	No. of participants			Number of SC/ST			Grand Total
					M	F	T	M	F	T	
a) Sponsored training programme											
Agronomy	ATMA	PF/PFW	Production technology of kharif paddy	01	15	25	40	15	25	40	40
Animal science	ATMA	PF/PFW	SPNF	04	40	60	100	40	60	100	100
Soil Science	ATMA	PF/PFW	Integrated nutrient mgt. in paddy	01	30	10	40	30	10	40	40
Plant protection	ATMA	PF/PFW	IPM for vegetables, Paddy	01	30	15	45	30	15	45	45
Ext. education	ATMA	PF	Formation and mgt. of SHGs	01	30	--	30	30	--	30	30
Total				08	145	110	255	145	110	255	255
b) Sponsored research programme : Nil											

Annexure - II

Details of Budget Estimate (2022-23) based on proposed action plan

Sr. No.	Particulars	BE 2022-23 proposed (Rs.lakh)
14.1	Recurring Contingencies	
14.1.1	Pay & Allowances	230.00
14.1.2	Traveling allowances	1.00
14.1.3	Contingencies	
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance	7.00
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)	10.00
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)	
<i>G</i>	Training of extension functionaries	
<i>H</i>	Maintenance of buildings	
<i>I</i>	Establishment of Soil, Plant & Water Testing Laboratory	
<i>J</i>	Library	
14.1	TOTAL Recurring Contingencies	248.00
14.2	Non-Recurring Contingencies	-
14.2.1	Works	-
14.2.2	Equipments including SWTL & Furniture	-
14.2.3	Vehicle (Four wheeler/Two wheeler, please specify)	-
14.2.4	Library (Purchase of assets like books & journals)	-
14.2	TOTAL Non-Recurring Contingencies	-
14.3	REVOLVING FUND	-
14.4	GRAND TOTAL	248.00