

**GUJARAT VIDYAPITH**  
**KRISHI VIGYAN KENDRA**  
**AMBHETI-VALSAD**  
**GUJARAT**

# *Annual Action Plan*

**01<sup>st</sup> January 2020 to 31<sup>st</sup> December 2020**

**SUBMITTED TO**  
**INDIAN COUNCIL OF AGRICULTURAL RESEARCH**  
**NEW DELHI – 110 012**

## Contents

Sl. No.	Particular	Page No
1	General Information	1
2	Details of District	5
3	Technical Programmes	10
4	Technology Assessment	12
5	Frontline Demonstrations	17
6	Training Programmes	21
7	Extension Activities	27
8	Production and supply of Technological products	28
9	Literature to be Developed/Published	29
10	Functional linkage with different Organizations	32
11	Convergence with other Agencies and Departments:	34
12	Action plan of Infrastructure in KVK	36
13	Annexure - I	38
14	Annexure - I I	43

**ANNUAL ACTION PLAN**  
**(1<sup>st</sup> January 2020 to 31<sup>st</sup> December 2020)**

**1. GENERAL INFORMATION ABOUT THE KVK**

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

Address	Telephone		E mail	Website
	Office	FAX		
<b>Krishi Vigyan Kendra, AMBHETI</b> Ta. Kaparada Di. Valsad Via. Vapi <b>Gujarat Pin. 396 191</b>	(1) 02633 260055	02633 260055	<b><u><a href="mailto:kvkvalsad@gmail.com">kvkvalsad@gmail.com</a></u></b>	<a href="http://www.kvkvalsad.org">www.kvkvalsad.org</a>

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

Address	Telephone		E mail	Website
	Office	FAX		
Gujarat Vidyapith Ashram road AHMEDABAD <b>Pin. 380 014</b>	(1) 079 2754 5044 (2) 079 2754 1148	079 2754 25 47	<a href="mailto:registrar@gujaratvidyapith.org">registrar @ gujaratvidyapith.org</a>	<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		
	Residence	Mobile	E .mail
Dr. R.F.Thakor	--	94271 29451	<a href="mailto:rthakor1965@yahoo.co.in">rthakor1965@yahoo.co.in</a>

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

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

**1.5. Staff Position (as on December 31, 2019)**

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

Sr. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Year	Plinth area (Sq.m)	Expenditure (Rs.)	Starting year	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	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	--	Replacement requires.
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**

<b>Name of the equipment / Implements</b>	<b>Year of purchase</b>	<b>Cost (Rs.)</b>	<b>Present status</b>
P A S system	1997	10230	Working condition.
Computer -3	2007, 2010,2019	1,02,270 +50,000	Working condition.
L C D	2007	75,400	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**

<b>Sl.No.</b>	<b>Date</b>
1. Scientific Advisory Committee	Feb-2020

## 2. DETAILS OF DISTRICT

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

Sr. No.	Farming systems / enterprises
1	Agriculture farming systems
2	Agri - Horti farming systems
3	Agri – Horti -Dairy farming systems
4	Agri - Silviculture farming systems

### 2.2 Description of Agro-Climatic zone and major agro ecological situations (based on the soil and topography)

#### a) Soil type

Sr. 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

Sr. 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

Sr. 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	--
			<b>2,94,412 ha.</b>

## 2.4 Area , Production and Productivity of major crops cultivated in the district (2017-18)

Sr. No.	Crops	Area ( ,000 ha.)	Production (,000 tones.)	Productivity ( Kgs / ha.)
1	<b>Food grains</b>			
	Paddy (irrigated)	21.184	69.9072	3300
	Paddy (Unirrigated)	51.572	133.055	2580
	Total Paddy	<b>72.756</b>	<b>202.962</b>	<b>2789</b>
	Ragi (Finger millet)	4.304	4.304	1000
	Jowar	0.059	0.068	1156
	Pigeon Pea	7.800	5.300	687
	Urid	6.400	4.100	641
	Mung	0.400	0.213	532
	Val	2.808	2.017	718
	Gram	2.000	1.960	978
	Groundnut	0.300	0.114	375
	Niger	3.588	1.5966	440
	Sugarcane	7.280	540.72	74275
	Total Field crops	<b>108.054</b>	<b>228.49</b>	
2	<b>Fruit crops</b>			
	Mango	26.250	157.50	6000
	Chiku	3.345	32.513	9720
	Banana	0.770	43.274	56200
	Papaya	0.145	6.254	43130
	Cashewnut	5.590	18.11	3240
	Coconut	2.930	29.30	10000
	Total	<b>39030</b>	<b>286.94</b>	
3	<b>Vegetables</b>			
	Brinjal	1.625	26.00	16000
	Okra	1.620	16.20	10000
	Tomato	1.405	29.50	21000
	Cucurbits	2.831	62.28	22000
	Total	<b>7.475</b>	<b>133.98</b>	17000



4	<b>Spices &amp; condiments</b>		
	Chilly	0.1	1.14
			11400

Source: District agriculture department.

### 2.5. Weather data (2019-20)

Month	Rainfall (mm)	Rainy days	Temperature C		Relative Humidity (%)	
			Maximum	Minimum	Maximum	Minimum
January	0	0	31.68	9.35	72.7	33.73
February	0	0	32.27	12.71	84.61	45.95
March	0	0	35.94	15.13	67.32	38.96
April	0	0	36.07	19.76	70.48	46.87
May	0	0	36.03	25.21	76.07	55.25
June	409	4	34.13	26.38	81.04	70.79
July	1320	23	29.5	22.73	95.71	88.37
August	1292	22	30.12	24.22	91.13	82.61
September	802	21	29.71	22.72	94.47	80.91
October	148	9	32.96	18.35	85.69	57.49
November	0	0	34.84	11.91	75.67	33.17
December	0	0	31.28	9.15	70.7	32.74
<b>TOTAL</b>	<b>3971</b>	<b>79</b>				

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

Category	Population	Production	Productivity
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

Sr. No.	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Area
1	Kaparada	Kakadkopar, Narvad, Arnai, Amdha, Khutali, Dhodhadkuva, Ozar, Panas, Ozarada ,Karjun, Kolvera	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.
2	Dharampur	Sadadvera, Nani vahiyal, Samarsingi, Khoba, Panva, Hanmatmal, Rajpuri Jungle	Paddy , Mango, Pulses, Cashewnut Vegetables & Dairy .	Low productivity in all crops. Non availability of improved seeds. Heavy infestation of weeds. Water scarcity Poor milk production	ICM ,INM, IPM, IWM Feed & fodder mgt. Integrated livestock mgt.
3	Pardi	Asma, Ambach, Pati, 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.
4	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
5	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

<b>Crop/Enterprise</b>	<b>Thrust area</b>
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
Livestock	Feed & fodder mgt., Integrated livestock mgt.
Income generation	Vocational training

### 3. TECHNICAL PROGRAMME

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

<b>OFT</b>		<b>FLD</b>	
<b>(1)</b>		<b>(2)</b>	
Number of OFTs	Number of Farmers	Area (ha)	Number of Farmers
09	125	127.75	730

<b>Training</b>		<b>Extension Activities</b>	
<b>(3)</b>		<b>(4)</b>	
Number of Courses	Number of Participants	Number of activities	Number of participants
74	1990	Field day - 08	800
		Kisan mela - 01	1500
		Kisan gosthi - 05	250
		Exhibition - 02	2500
		Film show -10	300
		Farmers Seminar - 05	500
		Group meetings -30	300
		Lectures in Other programme - 20	2000

<b>Seed Production (Qtl.)</b>	<b>Planting material (Nos.)</b>	<b>Fish seed prod. (Nos)</b>	<b>Soil Samples</b>
<b>(5)</b>	<b>(6)</b>	<b>(7)</b>	<b>(8)</b>
Paddy – 80.00	Sugarcane - 700.00 qt.	--	Soil Sample - 500
Greengram-1.00	Veg. seedlings – 1,10,000 nos	--	Water Sample - 300
	Fodder Toussecks - 50,000 nos.	--	
	Sweetpotato - 60000 cuttings	--	

### 3.1. B. Operational areas details proposed during 2020

S.No.	Major crops & enterprises being practiced in cluster villages	Prioritized problems in these crops/ enterprise	Extent of area (Ha / No.) affected by the problem in the district	Names of Cluster Villages identified for intervention	Proposed Intervention (OFT, FLD, Training, extension activity etc.)*
1	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,Panchalai Sadadvera Khuntli, Amdha	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	--	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	--	Kolvera, Nandgam, Rajpuri, Narvad	FLD, OFT, Training
8	Brinjal, Chilli, Cucurbits	Non availability of improved seeds. Heavy infestation pest & diseases	--	Varoli, Kaparada, Ozarada	FLD, OFT, Training

### 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	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation			01						01
Integrated Nutrient Management	04		01						05
Integrated Pest Management					01				01
Integrated Disease Management	01								01
Integrated Crop Management									
<b>TOTAL</b>	<b>05</b>		<b>02</b>		<b>01</b>				<b>08</b>

#### 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
Nutritional Management	01							01
<b>TOTAL</b>	<b>01</b>							<b>01</b>

### 3.2. B. Details of On Farm Trial / Technology Assessment during 2020

Sr. No.	Crop/enterprise	Prioritized problem	Title of Intervention	Technology options	Source of Technology	Name of critical input	Quantity per trial	Cost/trial (Rs.)	No. of trial	Total cost (Rs.)	Parameters to be studied	Team member
1	Paddy	Low yield of kharif hybrid paddy.	Assessment of Nutrient mgt. in transplanted paddy	T1. Farmer's practices (100-30-40 NPK kg/ha)	--	1. Seed of Hybrid variety (GNHR -1) @15kg/ha 2. Potash culture@ 2.5 li/ha.	1.5 kg	300	10	3250	1. Numbers of tillers per hill 2. Days of 50 % flowering 3. Grain yield (q/ha), 4. Straw yield (q/ha), 5. B:C ratio.	03
				T2. 100-30-00 NPK kg/ha (recommendation)	N.A.U., Navsari		250 ml.	25				
				T3. 100-30-00 NPK kg/ha + 2.5 li potash culture/ha.	N.A.U., Navsari							
2	Pigeon pea	Low yield of pigeon pea.	Assessment of Nutrient mgt. in Pigeon pea.	T1. Farmer practices (No use of "S")	--	1. Seed of Improved variety @ 15 kg/ha. 2. Sulphur (Bentonite 90 % @ 22 kg /ha)	3 kg	300	05	2600	1. Plant height at harvest 2. Days of 50 % flowering 3. Grain yield (q/ha), 4. B:C ratio.	03
				T2. 25-50-20 NPS kg/ha ( NAU Reco.)	N.A.U., Navsari		4.4 kg	220				
				T3. 25-50-20 NPS kg/ha + one spray of 2 % urea at pod filling stage	--							
3	Pigeon pea	Low yield of Kharif Pigeon pea.	Assessment of Pigeon pea variety for Kharif cultivation .	T1. Use of local variety with local practices	--	1. Seed of Imp. variety (GNP -2 & BDN-711) @15 kg/ha. 2. IPM kit	3.0 Kg	240	10	6400	1. Plant height at harvest 2. Days of 50 % flowering 3. Grain yield (q/ha), 4. B:C ratio.	03
				T2. Use of GNP-2 Variety with improved practices	N.A.U., Navsari		01 no.	400				
				T3. Use of BDN - 711 Variety with improved practices	N.A.U., Navsari							
4	Paddy	Low productivity in paddy	Assessment of fungicide for management	T1: .Farmers practices (No use of fungicide)	--	1. Propiconazole 25 EC 2. Carbendazim + Mancozeb 63% WP	250 ml	400	10	6500	1. Incidence of disease damage on crop,	03
				T2 : Three spray of Propiconazole 25 EC	Main RRS,		250 gm	250				

			of grain discolouration in paddy	0.025% (10 ml/ 10 lit. water). First spray at boot leaf stage and second and third spray after 10 days interval.	,NAU, Navsari, Year : 2016						2. Yield (q/ha), 3. B:C ratio	
				T3 : Spraying of Carbendazim + Mancozeb 63% WP	Reco. by NAU, Navsari,							
5	Milk Production	Low milk production	Assessment of effect of bypass fat feeding on milk production in crossbred cow.	T1.Farmers practices - Concentrate feed (1.5 kg/cow/day for maintenance + 500 gms for each liter milk production) T2 - Concentrate feed (1.5 kg/cow/day for maintenance + 500gmsfor each liter milk production) + By pass fat feed 100 gms/cow/day. (Duration - 30 Days)	-- Dept. of LPM, Vanbandhu College, Navsari, Year : 2012)	Godhara Shakti 60 kg	6 kg	1000	20	20,000	1. Milk production 2. (l it/cow/day) 3. B : C ratio.	03
6	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 Or Neemoil 1500 ppm @ 40 ml/10 lit. at the time of infestation	-- Reco. by NAU, Navsari, 2018 Reco. by NAU, Navsari	1. Spiromesifen 22.29 SC. 2. Propergite 57 EC . 3 Neemoil 1500 ppm	100 ml 100 ml 500 ml	650 200 250	10	11,000	1. Incidence of Pest & its damage on crop, 2. Yield (q/ha), 3. B:C ratio	03



7	Fingermillet	Low yield of fingermillet	Assessment of zinc application in Fingermillet crop	T <sub>1</sub> - Farmer Practice (46 kg N per ha + No application of Micronutrient)	Navsari Agri. Uni	ZnSO <sub>4</sub>	DAP Seed	3.0 kg	210.00	20	10,322	1. Plant height 2. Yield, 3. Soil fertility 4. B:C ratio	03
				T <sub>2</sub> -. RDF ( 40:20:00 kg NPK) per ha. + soil application of ZnSO <sub>4</sub> @ 25 kg/ha as Basal dose		ZnO <sub>2</sub>		50 gm	3.50				
				T <sub>3</sub> -. RDF + Seed treatment with ZnO <sub>2</sub> @ 10 gm/kg seed + Seedling treatment @ 0.5 % ZnSO <sub>4</sub>		Urea		4.50 kg	126.00				
								4.50 kg	26.60				
								5.0 kg	<u>150.00</u>				
									516.10				
8	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)	Navsari Agri. Uni.	Seed Thiourea		9.0 kg	270.00	20	5,536.6	1. No. of tiller 2. Yield 3. B:C ratio	03
				T <sub>2</sub> – RDF ( 100:30:00 kg NPK/ha)				5.0 gm	<u>6.83</u>				
				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					276.83				

9	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)	Navsari Agri. Uni. and Anand Agri. Uni.	Seed	12 kg	360.00	20	35,000	1. No. of tiller 2. Yield 3. Soil fertility 4. B:C ratio	03
				T <sub>2</sub> -RDF (100:30:00 kg NPK/ha)		Azoto.	0.5 lit	60.00				
				T <sub>3</sub> - . RDF + Nauroji LBF i.e Azoto. And PSB @ 1.25 li./ha		PSB	0.5 lit	60.00				
				T <sub>4</sub> - RDF + AAU developed Liquid manure		Buttermilk	2 lit.	50.00				
						Besan	2 kg	140.00				
						Jeggary	2 kg	80.00				
						Barrel	01	<u>1000.00</u>				
								1,750.00				

### 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/ demo	Parameters identified
1	Paddy	GAR-13	ICM	Improved variety, Seed & Seedling Treatment, Line sowing,	Seed – 30 kg/ha -18000 Rs LBF – Azotobacter 2.50 lit/ha – 5000 Rs. LBF- PSB 2.50 lit/ha – 5000 Rs. Vermicompost – 100 kg/ha – 10,000 Rs..	Kharif-2020	20	100	Yield, B:C ratio
2	Fingermillet	Guj. Nagli-5	ICM	Improved variety, Management of stem borer and blast	Seed - 5 kg/ha - 2000 Rs Neem oil - 1.5 lit/ha . ( 680Rs/Lit) 10200 Rs. Pseudomonas - 1.5 Kg/ha . ( 360 Rs/ kg) 5400 Rs.	Kharif-2020	05	25	Yield, Damage, B:C ratio
3	Pigeon Pea	BDN-711	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.	Kharif-2020	05	50	Yield, B:C ratio
4	Indian bean	Guj.Val-2	ICM	Improved variety, Line sowing, Treated seed, Management of pod borer	Seed -20 kg/ha -20000 Rs Neem oil - 1.5 lit/ha . ( 680Rs/Lit) 10200 Rs.	Rabi-2020	10	50	Yield, B:C ratio
5	Chickpea (NFSM)	GJG-3	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-20	10	25	Yield, B:C ratio

6	Green gram (NFSM)	GAM-5	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-2020	10	25	Yield, B:C ratio
7	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-2020	2.5	25	Yield, B:C ratio
8	Sweet potato	C-71	ICM	Improved variety, Seed treatment, INM	Cuttings - 60000 no. -30000Rs.	Kharif-2020	01	10	Yield, B:C ratio
9	Paddy	Jaya	INM	Nutrient mgt.	Novel- Spray (03) @10 lit/ha. -6000 Rs.	Kharif-2020	05	25	Yield, B:C ratio
10	Brinjal	DPR	INM	Nutrient mgt.	Mix micronutrients @ 25kg/ha. (450Rs/10kg) -5625 Rs.	Rabi-2020	05	25	Yield, B:C ratio
11	Paddy	Jaya	INM	Azolla Nursery	Azolla bed (25 no.) 1000 Rs/bed - 25000 Rs.	Rabi-2020	--	25	Yield, B:C ratio, soil fertility
12	Paddy	Jaya	INM	Green manuring	Sunnhamp seed- @30 kg/ha. 3000 Rs.	Kharif-2020	02	10	Yield, B:C ratio, soil fertility
13	Sugarcane	CON-13073	ICM	Improved variety, Seed treatment, INM	Seed ( 5 tone/ha) – 22500 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-2020	01	10	Yield, B:C ratio
14	Perennial grass	Co – 4	ICM	Improved variety	Fodder Touscess- 40000 nos.- 20000 Rs.	Kharif-2020	05	50	Fodder yield

15	Fodder sorghum	SSG-501	ICM	Improved variety	Seed – @ 70 kg/ha. (28 Rs/ kg) 9800 Rs	Rabi-2020	05	50	Fodder yield
16	Feed Supplement	Mineral mixture	Nutrition Mgt.	Feed Supplement	Mineral mixture @ 10 kg/animal. (88 Rs/ 1kg pkt.) 17600 Rs.	Dec-2020	-	20	Milk yield, B:C ratio
17	Mushroom	Pleurotus spp.	ICM	Improved variety	Seed and Plastic bags- (1000 Rs / unit) – 40000 Rs	Sept & Dec-2020	--	40	Yield, B:C ratio
18	Plug nursery	-	Income generation	Seedling raising in Plastic tray	Plastic Tray- 20 no/ unit (15 Rs/ tray) - 7500 Rs.	Dec-2020	-	25	Yield, B:C ratio
19	Kitchen garden	Seeds & seedlings of different vegetables	Malnutrition	Improved Variety	Seed and seedlings of different vegetables - 2500 Rs	Nov-2020	0.25	25	Yield, B:C ratio
20	Vermi compost	Eisenia foetida	Income generation	Vermicomposting	Earthworms 2 kg /unit (200Rs/kg) -8000 Rs.	Oct-2020	-	20	Yield, B:C ratio

**Sponsored Demonstration – Nil**

**B. Extension and training activities under FLDs**

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	08	September, December, January, April,	800
2	Farmers training	10	June, July, October, November, December, February	250
3	Media coverage	08	June, July, October, November, December, February	--
4	Training for extension functionaries	--	--	--

**C. Details of FLD on Enterprises****(i) Farm Implements/equipments**

Name of the implement	Crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators
Mango Bedni (Harvester)	Mango	Summer-2020	15	15	Bedni	Higher Market price
Paddy Thresher	Paddy	Rabi-2020	60	25	Paddy Thresher	Drudgery reduction
Bucket Irrigation	Vegetables	Summer-2020	20	01	Bucket Kit	Saving in water ,C:B
		<b>Total</b>	<b>95</b>	<b>41</b>		

**(ii) Livestock Enterprises –Nil**

### 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	05	--	--	--	95	115	210	210
<b>II Horticulture</b>								
Cultivation of Fruit crops	01	--	--	--	25	--	25	25
Nursery Management	01	--	--	--	10	15	25	25
<b>III Soil Health and Fertility Management</b>								
Production and use of organic inputs	01	--	--	--	15	10	25	25
Micro nutrient deficiency in crops	01	--	--	--	15	10	25	25
Soil and Water Testing	01	--	--	--	15	10	25	25
<b>IV Livestock Production and Management</b>								
Dairy management	02	--	--	--	10	30	40	40
Feed management	05	--	--	--	25	75	100	100
<b>V Home Science/Women empowerment</b>								
Income generation activities for empowerment of rural Women	01	--	--	--	--	25	25	25
Gender Mainstreaming through SHGs	01	--	--	--	--	25	25	25
Mushroom production Technology	02	--	--	--	15	35	50	50
Nursery management	01	--	--	--	--	25	25	25

<b>VI Agril. Engineering</b>								
Installation and maintenance of micro irrigation systems	01	--	--	--	25	--	25	25
Use of Plastics in farming practices	01	-	-	-	25		25	25
<b>VII Plant Protection</b>								
Integrated pest –disease management	03	--	--	--	60	-	60	60
Bio-control for pests and diseases	01	--	--	--	20	-	20	20
<b>X Capacity Building and Group Dynamics</b>								
Leadership development	01	--	--	--	20	05	25	25
Formation and management of SHGs	02	--	--	--	20	30	50	50
<b>TOTAL</b>	<b>32</b>				<b>415</b>	<b>410</b>	<b>825</b>	<b>825</b>
<b>(B) Rural Youth</b>								
Tractor operator (SKILL INDIA)	01	-	-	-	20	-	20	20
Nursery management	01	--	--	--	--	25	25	25
<b>TOTAL</b>	<b>02</b>				<b>20</b>	<b>25</b>	<b>45</b>	<b>45</b>
<b>(C) Extension Personnel</b>								
Integrated pest management	01	--	--	--	25	-	25	25
Formation and management of SHGs	01	--	--	--	--	25	25	25
Formation of FIGs	01	--	--	--	25	--	25	25
<b>TOTAL</b>	<b>03</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>50</b>	<b>25</b>	<b>75</b>	<b>75</b>
<b>G. Total</b>	<b>36</b>				<b>465</b>	<b>460</b>	<b>925</b>	<b>925</b>



**B) OFF Campus**

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Total
		Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>								
<b>I Crop Production</b>								
Weed management	03	--	--	--	45	30	75	75
Water management	02	--	--	--	30	20	50	50
Nursery management	01	--	--	--	15	10	25	25
<b>II Horticulture</b>								
Production of low volume and high value crops	01	--	--	--	15	10	25	25
Off-season vegetables	01	--	--	--	15	10	25	25
<b>III Soil Health and Fertility Management</b>								
Integrated Nutrient Management	01	--	--	--	15	10	25	25
Nutrient Use Efficiency	01	--	--	--	15	10	25	25
Soil and Water Testing	01	--	--	--	15	10	25	25
<b>IV Livestock Production and Management</b>								
Dairy management	01	--	--	--	05	20	25	25
Feed management	02	--	--	--	10	40	50	50
<b>V Home Science/Women empowerment</b>								
Income generation activities for rural Women	01	--	--	--	--	25	25	25
Household food security	01	--	--	--	--	25	25	25
Gender Mainstreaming through SHGs	01	--	--	--	--	25	25	25
Value addition	01	--	--	--	--	25	25	25

<b>VI Agril. Engineering</b>								
Soil and water conservation	01	--	--	--	60	--	60	60
Drudgery reduction	02	--	--	--	50	--	50	50
Micro irrigation	02	--	--	--	55	--	55	55
<b>VII Plant Protection</b>								
Integrated pest & disease management	05	--	--	--	100	25	125	1258
Bio-control for pests and diseases	01	--	--	--	20	05	25	25
<b>X Capacity Building and Group Dynamics</b>								
Entrepreneurial development of farmers	01	--	--	--	10	15	25	25
Formation and management of SHGs(HS)	01	--	--	--	10	15	25	25
<b>TOTAL</b>	<b>33</b>				<b>525</b>	<b>340</b>	<b>865</b>	<b>865</b>
<b>(B) Rural Youth</b>	<b>00</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>00</b>	<b>00</b>	<b>00</b>	<b>00</b>
<b>(C) Extension Personnel</b>								
Health management of crossbred cows.	01	--	--	--	25	--	25	25
<b>Total</b>	<b>01</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>25</b>	<b>--</b>	<b>25</b>	<b>25</b>
<b>G. TOTAL</b>	<b>32</b>				<b>510</b>	<b>330</b>	<b>840</b>	<b>840</b>

**C) Consolidated table (ON and OFF 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>								
Weed management	03	--	--	--	45	30	75	75
Water management	02	--	--	--	30	20	50	50
Nursery management	01	--	--	--	15	10	25	25
Integrated crop management	05	--	--	--	95	115	210	210
<b>II Horticulture</b>								
Cultivation of Fruit	01	--	--	--	25	--	25	25
Nursery Management	01	--	--	--	10	15	25	25
Production of low volume and high value crops	01	--	--	--	15	10	25	25
Off-season vegetables	01	--	--	--	15	10	25	25
<b>III Soil Health and Fertility Management</b>								
Production and use of organic inputs	01				15	10	25	25
Micro nutrient deficiency in crops	01				15	10	25	25
Soil and Water Testing	02				30	20	50	50
Integrated Nutrient Management	01				15	10	25	25
Nutrient Use Efficiency	01				15	10	25	25
<b>IV Livestock Production and Management</b>								
Dairy management	03	--	--	--	15	50	65	65
Feed management	07	--	--	--	35	95	130	130
<b>V Home Science/Women empowerment</b>								
Income generation activities for empowerment of rural Women	02	--	--	--	--	50	50	50
Gender Mainstreaming through SHGs	02	--	--	--	--	50	50	50
Mushroom production Technology	02	--	--	--	15	35	50	50
Nursery management	01	--	--	--	--	25	25	25

Household food security by nutritional gardening	01	--	--	--	--	25	25	25
Value addition	01	--	--	--	--	25	25	25
<b>VI Agril. Engineering</b>								
Installation and maintenance of micro irrigation systems	01	--	--	--	25	--	25	25
Use of Plastics in farming practices	01	-	-	-	25		25	25
Soil and water conservation	01	--	--	--	60	--	60	60
Drudgery reduction	02	--	--	--	50	--	50	50
Micro irrigation	02	--	--	--	55	--	55	55
<b>VII Plant Protection</b>								
Integrated pest disease management	08	--	--	--	160	25	185	185
Bio-control of pests and diseases	02	--	--	--	40	05	45	45
<b>X Capacity Building and Group Dynamics</b>								
Leadership development	01	--	--	--	20	05	25	25
Formation and management of SHGs	03	--	--	--	30	45	75	75
Entrepreneurial development of farmers	01	--	--	--	10	15	25	25
<b>TOTAL</b>	<b>65</b>				<b>940</b>	<b>750</b>	<b>1690</b>	<b>1690</b>
<b>(B) Rural Youth</b>								
Tractor operator (SKILL INDIA)	01	-	-	-	20	-	20	20
Nursery management	01	--	--	--	--	25	25	25
<b>TOTAL</b>	<b>02</b>				<b>20</b>	<b>25</b>	<b>45</b>	<b>45</b>
<b>(C) Extension Personnel</b>								
Integrated pest management	01	--	--	--	25	-	25	25
Formation and management of SHGs	01	--	--	--	--	25	25	25
Formation of FIGs	01	--	--	--	25	--	25	25
Health management of crossbred cows.	01	--	--	--	25	--	25	25
<b>Total</b>	<b>04</b>	--	--	--	<b>75</b>	<b>25</b>	<b>100</b>	<b>100</b>
<b>G. TOTAL</b>	<b>68</b>	--	--	--	<b>975</b>	<b>790</b>	<b>1765</b>	<b>1765</b>

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

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

Sr. No	Nature of extension activity	No. of activities	Farmers			Extension officials			Total		
			Male	Female	Total	Male	Female	Total	Male	Female	Total
1	Field day	07	420	270	690	10	--	10	430	270	700
2	Kisan mela	01	600	400	1000	12	03	15	612	403	1015
3	Kisan gosthi	06	300	200	500	08	02	10	310	202	510
4	Exhibition	02	1500	1000	2500	10	04	14	1510	1004	2514
5	Film show	12	200	100	300	--	--	--	200	100	300
6	Farmers Seminar	05	400	200	600	07	03	10	407	203	610
7	Group meetings	30	200	100	300	--	--	--	200	100	300
8	Lectures delivered	25	1500	1000	2500	25	05	30	1525	1005	2530
9	Newspaper coverage	04	--	--	--	--	--	--	--	--	--
10	Radio talks	06	--	--	--	--	--	--	--	--	--
11	TV talks	04	--	--	--	--	--	--	--	--	--
12	Popular articles	06	--	--	--	--	--	--	--	--	--
13	Extension literature	05	--	--	--	--	--	--	--	--	--
14	Advisory Services	300	250	50	300	10	5	15	260	55	315
15	Sci. visit to farmers field	25	80	40	120	10	04	14	90	44	134
16	Farmers visit to KVK	1200	1000	200	1200	--	--	--	1000	200	1200
17	Exposure visits	05	75	25	125	--	--	--	75	25	125
18	Ex-trainees sammelan	01	--	100	100	--	--	--	--	100	100
19	Animal health camp	03	60	90	150	10	--	10	70	90	160
20	Soil health Camp	1	25	25	50	1	0	1	26	25	51
21	Soil test campaigns	1	30	20	50	2	0	2	32	20	52
22	Celebration of important days (specify) world soil day	1	50	25	75	2	0	2	52	25	77
23	Mahila mandals conveners meetings	01	--	25	25	--	--	--	--	25	25
24	Celebration of imp. days	03	200	100	300	05	02	07	205	102	307
25	Krishi mohotsava	04	1000	800	1800	10	02	12	1010	802	1812

26	Pre kharif workshop	01	150	100	250	02	--	02	152	100	252
27	Pre rabi workshop	02	120	100	220	03	--	03	123	100	223

### 3.6. Target for production and supply of technological products

#### SEED MATERIALS

Sl. No.	Crop	Variety	Quantity (qtl.)
CEREALS	Paddy	GAR-13, GR-7, Navin	100.00
		Greengram	1.00

#### PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
VEGETABLES	Brinjal	Hybrid	1,20,000
	Tomato	Hybrid	20,000
	Chilli	Hybrid	20,000
	Cabbage	Hybrid	5,000
	Cauliflower	Hybrid	5,000
PLANTATION CROP	Sugarcane	Co.N-13073	700 qt.
OTHER (Specify)	Fodder tousseks	Co - 4	50,000 (tousseks)
	Sweetpotato	C- 71	60000 cuttings

#### Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
Bio Agents 1. Fruitfly traps	Fruitfly traps	Methyl Eugenol traps	1000	--

#### LIVESTOCK - 2 cross breed cow

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

##### A. KVK News Letter : Half yearly ( January & July )

Date of start : January - 2012

Number of copies to be published : 400

##### B. Literature developed/published

Sr. No.	Topic	Number
1	Research paper each scientist	02
2	Technical reports	02
3	News letters	02
4	Training manual all discipline	04
5	Popular article	06
6	Extension literature	06
	<b>Total</b>	<b>22</b>

##### C Details of Electronic media to be produced-

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

##### D. Success stories / Case studies identified for development as a case. - 02 success stories will be documented.

**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

**B. Rural Youth**

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

**C. 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

ii. No. of survey/PRA conducted : 02

## 6. LINKAGES

### 6.1. Functional linkage with different organizations

Sr. 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

a) Is ATMA implemented in your district Yes

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

**6.3. E-linkage during 2019-20**

S. No	Nature of activities	Likely period of completion (please set the time frame)	Remarks if any
1	Title of the technology module to be prepared		
2	Creation and maintenance of relevant database system for KVK		
3	Any other (Please specify)		

**6.4. Give details of programmes under National Horticultural Mission- Nil****6.5. Nature of linkage with National Fisheries Development Board – Nil****6.6. Additional Activities Planned including sponsored projects (ProCRA / Pro SOIL/NARI/DAESI/DAMU/DFI, etc.) / schemes during 2020, 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	--	02
2	NARI	Training	05	--	03
		Demonstration	04	--	03
3	DFI	Training	12		05
		Demonstration	08		06
4	PKVY	Training	05		05
		Demonstration	06		05
		Awareness programme	08		05
5	ASCI	Skill Training	01	150000	01

### 7.0 Convergence with other agencies and departments:

Sr. No.	Name of organization	Nature of convergence
1	Dept. of Agril. Valsad.	Involvement of kvk experts for delivering lectures, farmers seminars and extension functionaries trainings.
2	Dept. of Horticulture, Valsad	Involvement for lectures delivering in technology week.
3	Dept. of Animal husbandry, Valsad	Joint implementation of organizing cattle treatment camp & farmers shibir
4	Dept. of Forest, Valsad	Joint implementation of organizing extension functionaries training.
5	ATMA, Valsad	Involvement of kvk experts for delivering lectures in training, FFS, seminars, etc.

### 8. Innovator Farmer's Meet 2020

Sl.No.	Particulars	Details
	Are you planning for conducting Farm Innovators meet in your district?	Yes
	If Yes likely month of the meet	Oct
	Brief action plan in this regard	Technological details will be collected from them. Interaction amongst Sci. and farmers will be done.

### 9. Farmers Field School (FFS) planned 2020 - Nil

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

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

### 11. Utilization of hostel facilities

S. No.	Programme	No. of days
1	Production technology of paddy	04
2	Production technology of paddy	02
3	Production technology of pigeon pea	02
4	Production technology of gram	02
5	Production technology of green gram	02
6	Cultivation of Fruit	02

7	Nursery Management	02
8	Dairy management/ diseases management	04
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	02
14	Identification and correction of Micronutrient deficiencies	02
15	Preparation and use of Liquid organic manures	04
16	Installation and maintenance of micro irrigation systems	04
17	Use of Plastics in farming practices	04
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	04
28	Bio control of pest in vegetables	02
29	Leadership development	02
30	Formation and management of SHGs	02
31	Nursery raising	04
32	Tractor Operator (SKIL INDIA)	25

## 12. ACTION PLAN OF INFRASTRUCTURE IN KVK

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

Sl. No.	Demo Unit	Year of establishment	Area (ha)	Details of production (expected)			Expected Amount (Rs.)		Remarks
				Variety	Produce	Qty.	Cost of inputs	Gross income	
1	Vermicompost	2003-04	0.1	Eudrilus eugeniae	Vermicompost	20 ton	40,000	80,000	
2	Vermiculture	2003-04	0.1	Eudrilus eugeniae	Vermiculture	100 kg.	5,000	20,000	
3	Dairy	2003-04	0.2	H.F.	Milk	9000 lit	400000	300000	
4	Dairy	2003-04	0.2	H.F.	FYM	20 tone	--	20000	
5	Dairy	2003-04	0.5	Co.-4	Planting material	50,000 tussecks	5,000	10,000	
6	Veg. Nursery	2002-03	0.2	Hybrid seedling of Brinjal, Tomato, Chilly	Seedling	1,70,000 no.	75,000	1,70,000	
7	Mango germplasm demo	2006-07	0.25	Keshar, Alphanso, Sonpari, Amrapali,	-	-	-	-	-
8	Bio Agents Fruitfly trap (Mango)	2008-09	--	Methyle eugenol trap	Methyle eugenol trap	1000 no	25000	40000	

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

Name of the crop	Area (ha)	Details of production (expected)			Expected Amount (Rs.)		Remarks
		Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
<b>Cereals</b>							
Paddy(Summer)	01	GAR-13	Seed	4000 kg	36,000	1,20,000	
Paddy(Kharif)	1.5	GAR-13, ,Naveen	Seed	6000 kg	57,000	1,18,000	
<b>Pulses</b>							
Green gram	0.2	GAM-6	Seed	100 kg	4,000	10,000	
<b>Fruits</b>							
Mango	03	Kesar ,Alphanso, Dasheri	Commercial	3000 kg	60,000	1,00,000	

<b>Vegetables</b>							
Kitchen garden	0.1	Brinjal, Tomato, Chilly	Commercial	400 kg	6,000	8000	
<b>Others (specify)</b>							
Sugarcane	01	Co.N.- 04131 Co.N.- 13073	Seed	70 tone	50,000	2,10,000	
Sugarcane	1.5	Co.N.- 41131	Commercial	100 tone	1,40,000	2,50,000	
Fodder	0.10	Co.-4	Planting material	40,000 tussecks	10,000	20,000	
Casurina	01	Clonal	Commercial	--	15,000	--	

**C. Action plan of production Units (bio-agents / bio pesticides/ bio fertilizers etc.)**

Sl. No.	Name of the Product	Qty (expected)	Expected Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
1	Fruitfly trap ( Mango)	1000 no	25000	40000	

**D. Action plan of instructional farm (livestock and fisheries production)**

Sl. No	Name of the animal / bird / aquatics	Details of production (expected)			Expected Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
1	Cow	H.F.	Milk	9000 lit	500000	270000	
			FYM	20 tone	--	20000	

## Training Programme

## (i) Farmers &amp; 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>										
01-02/02/2020	PF/FW	Production technology of green gram	02	15	10	25	15	10	25	25
25-28/05/2020	PF/FW	Production technology of paddy	04	20	40	60	20	40	60	60
29-30/05/2020	PF/FW	Production technology of paddy	02	20	20	40	20	20	40	40
04-05/06/2020	PF/FW	Production technology of pigeon pea	02	20	30	50	20	30	50	50
08-09/11/2020	PF/FW	Production technology of gram	02	20	15	35	20	15	35	35
<b>Horticulture</b>										
11-14/06/2020	PF/FW	Cultivation of Fruit	02	25	--	25	25	--	25	25
25-28/09/2020	PF/FW	Nursery Management	02	15	10	25	15	10	25	25
<b>Livestock prod.</b>										
05-6/01/2020	PF/FW	Improved feed and fodder mgt. for cattle	02	05	15	20	05	15	20	20
19-20/01/2020	PF/FW	Dairy management	02	05	15	20	05	15	20	20
16-20/06/2020	PF/FW	Dairy management/ diseases management	04	05	15	20	05	15	20	20
12-13/10/2020	PF/FW	Improved feed and fodder mgt. for cattle	02	05	15	20	05	15	20	20
10-11/11/2020	PF/FW	Improved feed and fodder mgt. for cattle	02	05	15	20	05	15	20	20
<b>Soil Health</b>										
11- 12/05/2020	PF	Method of soil and water sample collection and analysis	02	15	10	25	15	10	25	25
25-26/09/ 2020	PF	Identification and correction of Micronutrient deficiencies	02	15	10	25	15	10	25	25
13-16/10/ 2020	PF	Preparation and use of Liquid organic manures	04	15	10	25	15	10	25	25



<b>Agril. Engg.</b>										
20-23/10/2020	PF	Installation and maintenance of micro irrigation systems	04	25	--	25	25	--	25	25
11-14/07/2020	PF	Use of Plastics in farming practices	04	25	--	25	25	--	25	25
<b>Home Science</b>										
15-18/4/2020	PFW	Income generation activities for empowerment of rural Women	04	--	--	--	--	25	25	25
13-14/05/2020	PFW	Gender Mainstreaming through SHGs	02	--	--	--	--	25	25	25
22-25/07//2020	PF/PFW	Mushroom production Technology	04	--	--	--	15	10	25	25
26-29/10/2020	PFW	Mushroom production Technology	04	--	--	--	--	25	25	25
13-16/12/2020	PFW	Nursery management	04	--	--	--	--	25	25	25
<b>Plant protection</b>										
02-03/06/2020	PF	IPDM in cucurbit vegetables	02	20	-	20	20	-	20	20
05-08/08/2020	PF	Management of pest –disease of paddy	04	20	-	20	20	-	20	20
15-16/10/2020	PF	Biocontrol of Pest Dis. in pulse crops	02	20	-	20	20	-	20	20
27-30/11/2020	PF	Management of pest-disease of mango	04	20	-	20	20	-	20	20
<b>Capacity Building</b>										
16-17/09/2020	PF	Leadership development	02	20	05	25	20	05	25	25
10-12/12/2020	PFW	Formation and management of SHGs	02	10	15	25	10	15	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	
<b>Crop Production</b>										
16/02/2020	PF	Water management in green gram	01	15	10	25	15	10	25	25
26/02/2020	PF	Weed management in green gram	01	15	10	25	15	10	25	25
02/06/2020	PF	Nursery management in paddy	01	15	10	25	15	10	25	25
10/07/2020	PF	Weed management in paddy	01	15	10	25	15	10	25	25
22/07/2020	PF	Water management in pigeon pea	01	15	10	25	15	10	25	25
27/11/2020	PF	Weed management in gram	01	15	10	25	15	10	25	25
<b>Horticulture</b>										
02-03/07/2020	PF/FW	Production of low volume and high value crops	02	15	10	25	15	10	25	25
23-24/08/2020	PF/FW	Off-season vegetables	02	15	10	25	15	10	25	25
<b>Live Stock Production.</b>										
12/02/2020	PF/FW	Improved feed and fodder mgt. for cattle	01	05	20	25	05	20	25	25
07/06/2020	PF/FW	Improved dairy practices for milch cattle	01	05	20	25	05	20	25	25
11/07/2020	PF/FW	Improved feed and fodder mgt. for cattle	01	05	20	25	05	20	25	25
<b>Soil Health</b>										
16-17/06/2020	PF	Use of liquid biofertilisers in paddy	02	15	10	25	15	10	25	25
07-08/07/2020	PF	Use of Leaf colour charts for efficient use Nitrogen in paddy crop	02	15	10	25	15	10	25	25
11-12/11/2020	PF	Method of soil and water sample collection	02	15	10	25	15	10	25	25
<b>Agril. Engg.</b>										
10/01/2020	PF	Micro irrigation in vegetables	01	25	--	25	25	--	25	25
15/02/2020	PF	Micro irrigation	01	25	--	25	25	--	25	25
19/05/2020	PF	Soil and water conservation	01	25	--	25	25	--	25	25
16-17/09/2020	PF	Drudgery reduction in paddy threshing	02	25	--	25	25	--	25	25

25/09/2020	PF	Drudgery reduction in paddy threshing	01	25	--	25	25	--	25	25
<b>Home Science</b>										
17/06/2020	PFW	Income generation activities for rural Women	01	--	--	--	--	25	25	25
06/08/2020	PFW	Household food security by nutritional gardening	01	--	--	--	--	25	25	25
24/11/2020	PFW	Gender Mainstreaming through SHGs	01	--	--	--	--	25	25	25
15/12/2020	PFW	Value addition	01	--	--	--	--	25	25	25
<b>Plant Protection</b>										
25-26/02/2020	PF	Bio control of pest in chickpea	02	20	05	25	20	05	25	25
10-11/03/2020	PF	Management of fruitfly in mango	02	20	05	25	20	05	25	25
27-28/08/2020	PF	Integrated pest - disease mgt. in paddy	02	20	05	25	20	05	25	25
08-09/09/2020	PF	Management of pest and disease of finger millet	02	20	05	25	20	05	25	25
06-07/10/2020	PF	Integrated pest - disease mgt. in pigeonpea	02	20	05	25	20	05	25	25
05-06/11/2020	PF	Integrated pest - disease mgt. in vegetables	02	20	05	25	20	05	25	25
<b>Capacity Building</b>										
11-12/06/2020	PFW	Entrepreneurial development of farmers	02	10	15	25	10	15	25	25
26-27/11/2020	PF	Formation and management of SHGs(HS)	02	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	
Entrepreneurship development	Vocational training	Nursery raising	Aug.-2020	04	--	20	20	--	20	20	20
Farm Machinery	Farm mechanization	Tractor Operator (SKIL INDIA)	Dec-2020	25	20		20	20		20	20

**iii) Training programme for Extension Functionaries**

Date	Clientele	Title of the training programme	Duration in days	No. of participants			Number of SC/ST			Grand Total
				M	F	T	M	F	T	
<b>On Campus</b>										
13-14/07/2020	Field workers of NGO	Management of pest-disease of paddy	02	25	-	25	25	-	25	25
25-26/09/2020	SHG group leaders	Formation and management of SHGs	02	--	25	25	--	25	25	25
05-06/09/2020	Village Level Workers	Formation & Management of FIGs	02	20	05	25	20	05	25	25
<b>OFF Campus</b>										
08-09//05/2020	Paravet workers	Health management of crossbred cows.	02	25	--	25	25	--	25	25

**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	
<b>a) Sponsored training programme</b>											
Agronomy	ATMA	PF/PFW	Production technology of kharif paddy	01	15	25	40	15	25	40	40
Animal science	ATMA	PF/PFW	Improved feed and fodder mgt. for cattle	01	05	25	30	05	25	30	30
Home science	ATMA	PFW	Nutritional gardening	01	--	40	40	--	40	40	40
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
<b>Total</b>				<b>06</b>	<b>110</b>	<b>115</b>	<b>225</b>	<b>110</b>	<b>115</b>	<b>225</b>	<b>225</b>
<b>b) Sponsored research programme : Nil</b>											

## Budget - Details of budget utilization (2019-20) up to 31 January 2020

S.No.	Particulars	Sanctioned	Released	Expenditure
<b>13.1</b>	<b>Recurring Contingencies</b>			
13.1.1	<b>Pay &amp; Allowances</b>	155.00	117.00	133.35
13.1.2	<b>Traveling allowances</b>	0.80		
13.1.3	<b>Contingencies</b>			
<i>13.1.4.1</i>	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance	6.00	12.00	2.12
<i>B</i>	POL, repair of vehicles, tractor and equipments			2.26
<i>C</i>	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	10.00		2.33
<i>D</i>	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)			0.85
<i>E</i>	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)			2.57
<i>F</i>	On farm testing			0.60
<i>G</i>	Training of extension functionaries			--
<i>H</i>	Maintenance of buildings			0.03
<i>I</i>	Establishment of Soil, Plant & Water Testing Laboratory			--
<i>J</i>	Library			--
<b>13.1</b>	<b>TOTAL Recurring</b>			144.86
<b>13.2</b>	<b>Non-Recurring Contingencies</b>			
13.2.1	<b>Works</b>	4.00	--	--
13.2.2	<b>Equipments including SWTL &amp; Furniture</b>	--	--	--
13.2.3	<b>Vehicle</b> (Four wheeler/Two wheeler, please specify)	--	--	--
24.2.4	<b>Library</b> (Purchase of assets like books & journals)	--	--	--
<b>13.2</b>	<b>TOTAL Non recurring</b>	4.00	--	--
<b>13.3</b>	<b>REVOLVING FUND</b>	--	--	--
<b>13.4</b>	<b>GRAND TOTAL (A+B+C)</b>	<b>175.80</b>	<b>129.00</b>	<b>144.86</b>

**Details of Budget Estimate (2020-21) based on proposed action plan**

<b>S. No.</b>	<b>Particulars</b>	<b>BE 2020-21 proposed (Rs.lakh)</b>
<b>14.1</b>	<b>Recurring Contingencies</b>	
14.1.1	<b>Pay &amp; Allowances</b>	<b>170.00</b>
14.1.2	<b>Traveling allowances</b>	<b>1.50</b>
14.1.3	<b>Contingencies</b>	
<i>A</i>	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance	<b>3.50</b>
<i>B</i>	POL, repair of vehicles, tractor and equipments	<b>3.00</b>
<i>C</i>	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	<b>8.50</b>
<i>D</i>	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	
<i>E</i>	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	
<i>F</i>	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	
<i>14.1</i>	<b>TOTAL Recurring Contingencies</b>	
<b>14.2</b>	<b>Non-Recurring Contingencies</b>	<b>-</b>
14.2.1	<b>Works</b>	<b>-</b>
14.2.2	<b>Equipments including SWTL &amp; Furniture</b>	<b>-</b>
14.2.3	<b>Vehicle</b> (Four wheeler/Two wheeler, please specify)	<b>-</b>
14.2.4	<b>Library</b> (Purchase of assets like books & journals)	<b>-</b>
<b>14.2</b>	<b>TOTAL Non-Recurring Contingencies</b>	<b>-</b>
<b>14.3</b>	<b>REVOLVING FUND</b>	<b>-</b>
<b>14.4</b>	<b>GRAND TOTAL</b>	<b>186.50</b>