

# ACTION PLAN

(April-2019 to March-2020)

TO BE PRESENTED AT  
ANNUAL ACTION PLAN WORKSHOP OF KVKs OF GUJARAT

ORGANIZED BY  
DIRECTOR, ATARI ZONE-VIII, ICAR, PUNE

HELD AT  
NAVSARI AGRICULTURAL UNIVERSITY,  
NAVSARI  
During MARCH 1-2, 2019

PREPARED/COMPILED By  
*Dr. K. P. Baraiya, Senior Scientist & Head*  
*Smt. A. K. Baraiya, Scientist*



**KRISHI VIGYAN KENDRA**  
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**JAMNAGAR - 361 006**  
**GUJARAT**





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**ANNUAL ACTION PLAN (April-2019 to March- 2020)**

**KRISHI VIGYAN KENDRA  
JUNAGADH AGRICULTURAL UNIVERSITY, JAMNAGAR**

**1. GENERAL INFORMATION ABOUT THE KVK****1.1 Name and address of KVK with phone, fax and e-mail**

Address	Telephone		E mail	Website address & No. of visitors (hits)
	Office	FAX		
KrishiVigyan Kendra Millet Research Station, JAU Airforce Road, Opp. Digjam Mill Jamnagar- 361 006	(0288) 2710165	(0288) 2710165	kvkjamnagar@jau.in kvkjamnagar@gmail.com	www.jau.in 7827712

\* ICT lab was established centrally at University Headquarter, Junagadh Agricultural University, Junagadh. As a part of ICT on KVK is also established.

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

Address	Telephone		E-mail	Web address
	Office	FAX		
Junagadh Agricultural University, Junagadh – 362 001 (Gujarat)	PBX 2672080-90	(0285) 2672653	dee@jau.in	www.jau.in

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. K. P. BARAIYA	Senior Scientist & Head KrishiVigyan Kendra Junagadh Agricultural University, Airforce Road, Opp. Digjam Mill Jamnagar- 361 006	9427980032	kvkjamnagar@gmail.com kvkjamnagar@jau.in

**1.4. Year of sanction:**

ZARS (KVK) 2001, Letter No. F.No. 18(4)/99-NATP Dated October 31<sup>st</sup>, 2001

ICAR (KVK) 2004, Letter No. F.No. 8(1)/2002-AE-II(Pt.) Dated February 5<sup>th</sup>, 2004

**1.5. Staff Position (as on 31<sup>st</sup> March, 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 & Head	Dr. K.P. Baraiya	Plant Protection	37400-67000	9000	17.08.2006	
2	Scientist	Shri S. H. Lakhani	Crop Production	15600-39100	6000	30.03.2015	
3	Scientist	Vacant	Plant Protection	15600-39100	6000		
4	Scientist	Vacant	Horti./ Ag. Engg	15600-39100	6000		
5	Scientist	Vacant	Extension Education	15600-39100	6000		
6	Scientist	Dr. J. N. Thaker	Fisheries	15600-39100	8000	31.08.2006	
7	Scientist	Smt. A. K. Baraiya	Home Science	15600-39100	8000	17.08.2006	
8	Farm Manager	Shri H. S. Godhani	Agril. Ent.	39900-126600	-	19.09.2015	38090/-

9	ProgrammeAssistant	Shri A. B. Parmar	Agril.	39900-126600	-	17.10.2018	38090/-
10	Computer Programmer	Shri C. P. Padhiyar	Computer Operator	39900-126600	-	29.12.2008	
11	Accountant / Superintendent	Shri B. H. Joshi	Adm.	39900-126600	-	11.6.2008	
12	Stenographer	Vacant	Adm.	19900-63200		-	
13	Driver	Vacant	Supt.	19900-63200		-	
14	Driver	Shri. D.M. Chauhan	Supt. (Fix)	19900-63200		9.10.2007	
15	Supporting staff	Shri B. V. Bamaniya	Supt.	14800-47100		01.11.2014	
16	Supporting staff	Shri P. S. Damor	Supt.	14800-47100		1.09.2006	

**1.6. Total land with KVK (in ha) :20.44 ha**

Sl. No.	Item	Area in hectare(s)*
1	Under Building and Road	2.00
2	Under Demonstration units	0.70
3	Under crops	12.00
4	Orchard	3.50
5	Agro-forestry	0.24
6	Others (Farm Pond & Channels)	2.00
	<b>Total</b>	<b>20.44</b>

**1.7. Infrastructural Development:**

**A) Buildings**

Sl. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	KVK	15-8-11	550	5500000			
2.	Farmers Hostel	KVK	15-8-11	305	3000000			
3.	Staff Quarters (6)	KVK	15-8-11	400	4000000			
4.	Demonstration Units of vegetable	KVK + ATMA	31-3-07	-	-	-	-	-
5	Poly House	RKVY	31-3-09	320	281602	-	-	-
6	Net House	RKVY	31-3-09	150	64498	-	-	-
7	Training Hall	RKVY	20-2-10	190.99	1395800	-	-	-
8	Process Plant	RKVY	20-2-10	197.31	1536400	-	-	-
9	Implement shed	RKVY	11-2-10	77.33	297800	-	-	-
10	Rain Water harvesting system	KVK	31-3-2007	26m×26m (2Ponds)60m×60m (1 Pond)	999000	-	-	-
11	Fencing	-	Not	Available	-	-	-	-
12	Threshing floor	-	Not	Available	-	-	-	-
13	Farm godown	-	Not	Available	-	-	-	-
14	ICT lab	-	Not	Available	-	-	-	-
15	Other	-	Not	Available	-	-	-	-

**B) Vehicles**

Type of vehicle	Year of purchase	Cost (Rs.)	Totalkms. Run	Presentstatus
Toyota Quallis (GJ-10G 433)	2004-05	490200	482935	Working (it is required to be rightoff)
Hero Hondasplender(bike) GJ-10 BB-1634	2010-11	46475	20989	Working

**C) Equipments & AV aids**

Name of the equipment	Year of purchase	Cost (Rs.)	Presentstatus
Captain Mini Tractor	2001-02	166125	Working
Telephoneline	2001-02	19850	Working
Multi tool carrier complete set	2001-02	6500	Working
Photocopier	2001-02	125000	Working
Over headprojector	2001-02	17600	Working
Computer	2002-03	29500	Working
HP Laser printer	2002-03	20390	Working
U.P.S. (3 KVA)	2002-03	38000	Working
Spectrophotometer	2005-06	89160	Working
Flame photometer	2005-06		Working
Physicalbalance	2005-06	10640	Working
Chemicalbalance	2005-06	100000	Working
Water distillation still	2005-06	96118	Working
Kieldahi digestion and distillation	2005-06	49644	Working
Shaker	2005-06	80080	Working
Grinder	2005-06		Working
Refrigerator	2005-06	16772	Working
Oven	2005-06	30550	Working
Hot plate	2005-06		Working
Aspee tractor mounted sprayer	2006-07	32000	Working
Air assisted blower type sprayer	2009	98750	Working
Laptop computer (HCL)	2009	47500	Working
Digital camera (Nikon)P-90 12.1	2009	24300	Working
Cotton stalk shredder	2008-09	121000	Working
Groundnut digger-tractor operated	2009	78500	Working
Cultivator cum rotavator	2009	90000	Working
Groundnut decorticator	2009	95850	Working
Multi crop thresher	2009	114000	Working
Processing Unit	2009	1685000	Working
Plantar-tractor operator	2009	44000	Working
EPBX System	2012	44000	Working
Vertical Autoclave	2012	78190	Working
Laminar Airflow	2012	127440	Working
Electronic Balance (200 gm)	2012	12600	Working
EC/ Conductivity meter	2012	6300	Working
Portable pH Meter	2012	6300	Working
Compound microscope	2012	4410	Working
Trinocular microscope	2012	112000	Working
Digital temperature & humidity indicator cum controller	2012	34750	Working
Digital TDS meter	2012	3985	Working

Research centrifuse with accesaries	2012	42480	Working
Stabilizer	2012	10440	Working
Hot air oven	2012	41580	Working
BOD incubator	2012	46305	Working
Digital camera SLR (Canon)	2012	44750	Working
AC 1.5 tonn	2012	45990	Working

**1.8. A). Details SAC meeting conducted in the year**

Sl.No.	Date	Number of Participants	Salient Recommendations	Action taken
1.	01-10-2005	21	-	-
2.	07-10-2006	30	-	-
3.	02-11-2007	31	-	-
4.	17-10-2008	30	-	-
5.	14-09-2009	33	-	-
6.	29-4-2010	35	-	-
7.	07.04.2011	37	-	-
8.	10.04.2012	32	-	-
9.	02.04.2013	37	-	-
10.	27.12.2013	26	-	-
11.	21.02.2015	25	-	-
12.	29.01.2016	22	-	-
13.	25.10.2016	27	-	-
14.	12.04.2018		As below	As below

**Suggestions made by committee members during presentation of 14<sup>th</sup> SAC is as under:**

1.	<p>Dr. A. R. Pathak, Hon'ble Vice Chancellor, Junagadh Agricultural University, Junagadh &amp; Chairman of the SAC suggested following points.</p> <ul style="list-style-type: none"> <li>➤ Study the economics and required area for FLD on <i>raft</i> culture preparation.</li> <li>➤ Arrange FLD on sea weed liquid for pomegranate cultivation.</li> <li>➤ Emphasis on doubling the farmers income during training thought out the year.</li> <li>➤ Emphasis on value addition in pomegranate and groundnut.</li> <li>➤ Arrange FLD on Matting disrupter technique for pink ball worm in cotton crop.</li> <li>➤ Arrange FLD on <i>Metarhizium</i> for the management of white grub groundnut crop.</li> <li>➤ Train the pomegranate farmers for "<i>bahar</i>" management, removal of water shoots and canopy management.</li> <li>➤ Prepare list of organic certified farmers.</li> <li>➤ Detail study on sea weed production technology and present it.</li> <li>➤ Arrange field day on pen culture technique.</li> </ul>
2.	<p>Dr. V. P. Chovatiya, Director of Research, JAU, Junagadh pointed out</p> <ul style="list-style-type: none"> <li>➤ Arrange training on value addition of Ajwain, Chikori and other spice crop.</li> <li>➤ Action taken report should quantify and give details.</li> <li>➤ Arrange training on stem borer infestation in wheat.</li> <li>➤ Give information about weather and technical suggestion on precaution measures through SMS.</li> </ul>



	<ul style="list-style-type: none"> <li>➤ Arrange training on <i>kharif</i> crop production technology, IPM and IDM during second quarter instead of first quarter.</li> <li>➤ Arrange training on organic farming and bio-fertilizer and recycling of farm waste during first quarter instead of second quarter.</li> <li>➤ Arrange FLD in clusters in ATIC scheme.</li> <li>➤ Arrange cluster FLD on groundnut variety GJG-22 instead of GG-20.</li> </ul>
3.	<p>Dr. A. M. Parakhia, Director of Extension Education, JAU, Junagadh advice that</p> <ul style="list-style-type: none"> <li>➤ Analyze maximum soil and water sample at KVK Soil Testing Laboratory.</li> <li>➤ Arrange demonstration at KVK farm for production and use of <i>Jivamrut</i>.</li> </ul>
4.	<p>Dr. M. D. Khanpara, Research Scientist (Pearl Millet), Pearl Millet Research Station, JAU, Jamnagar suggested to arrange OFT on cotton picking kit.</p>
5.	<p>Shri C. O. Lashkari, Deputy Director of Horticulture, Jamnagar &amp; Devbhumi Dwarka suggested for arrange training on pomegranate in collaboration with Horticulture Department.</p>

## 2. DETAILS OF DISTRICT

The district of Jamnagar is lies in North Saurashtra Agro climatic zone(VI) with an area of 35.02 lakh hectare land. The total geographical area of entire district (21.8 – 22 ON, 69.0 – 70.7 E) occupies 14125 km<sup>2</sup> i.e. 14.125 lakh ha area in the west of Gujarat state. The climate is arid (80%) and semi arid (20%) with a meanmoistureindex of 67.5. About 95 to 98% of annual rainfall comes during the monsoon month of June to October, July and August being the rainiest months. The co-efficient of variation ranges between 50 and 82%. The annual potentialevapo-transpiration ranges between 1500 and 1650mm, three times the precipitation, resulting in no flow in the ephemeral channels for the most of the year. The district is a water scarcity area droughts are common in this region draughts of moderate to severeintensity occur once in 2 to 3 years. Although the integrateddrainagesystemfrom the story/rocky/gravelly surfaces and torrential nature of precipitation generate 40 to 60% of rainfall as runoff, steeper slopes and absence of checks allow the water to quickly flow to the sea. Being is hard rock terrain, the groundwater potential is very low, is already over exploited and mined, resulting in either the saline water ingress in the costal aquifers, or drying up of the ground water up to a depth of 100m. Consequently a need for holistic approach to water resourcedevelopmentin the district. Wind velocity prevailing in the district is higher order (14.1 km) ha on an annual averagebasisdue to sea coast area.

According to physiographically, majorportion of the area in the district have an altitude ranging between 25 to 150 meters, which consists ten taluka having gentle slope to moderate slope. The district is marked by radicalrainage pattern. Deccantrap basalt occupies a major part of the district. The Quaternary formations includemilliolite, limestone, alluvium and Geolian sediments. The dominantland forms are colluvial plains and rocky uplands. Low hills occur in the southern part of district and are dissected by numerous large and small seasonal streams, most of which drain towards north and form potential drainage basins. The district is characterized by shallow, black soil and coastal alluvial soils with large variations in depth, texture, structure salinity, and water erosion. Nearly two third area of the district is under cultivation. The major factors of land degradationareaccelerated water erosion and Salinization.

**Basic information of operational district, Jamnagar and Devbhumi Dwarka:**

Sr. No.	Details	JAMNAGAR		DEVBHUMI DWARKA	
1	Total geographical area	6.075 lakh ha.		4.07509 lakh ha.	
2	Total cultivable area	4.32 lakh ha.		2.52 lakh ha.	
3	Net cultivated area	3.53 lakh ha.		2.38 lakh ha.	
4	Total area under forest	0.43 lakh ha.		0.1736 lakh ha.	
5	Total irrigated area	0.939 lakh ha.		0.23092 lakh ha.	
6	Number of holdings	1.44 lakh		1.17 lakh	
7	Average annual rainfall	550 mm.		550 mm.	
8	Soil type	Medium black		Medium black	
9	Total number of villages	419 (8 city)		280 (8 city)	
10	Total population	13.89 lakh (2011)		7.48 lakh (2011)	
	(a) Male	7.18 lakh		3.84 lakh	
	(b) Female	6.71 lakh		3.64 lakh	
11	Literacy percentage	Rural	Urban	Rural	Urban
	a. Male	86.95	79.55	76.14	80.74
	b. Female	76.22	62.18	55.41	61.36
12	Number of talukas	6 (Six),		4 (Four)	
		Jamnagar		Jamkhambhalia	
		Dhrol		Jamkalyanpur	
		Jodiya		Okha Mandal (Dwarka)	
		Kalavad		Bhanvad	
		Lalpur			
		Jamjodhpur			

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

S. No	Farming system/enterprise		
1	Crops	Cereals	: Pearl millet, Sorghum, Wheat, Maize
		Pulses	: Greengram, Blackgram, Chickpea, pigeonpea
		Oilseeds	: Groundnut, Sesamum, Castor, Mustard,
		Cash crops	: Cotton,
		Spices and condiments	: Cumin, Fennel, Coriander, ajwan, Ishabgul
		Vegetables	: Onion, garlic, potato, chilli, binjal, tomato, cauliflower, Cowpea, cabbage, okra, peach, cucurbits etc
		Horticulture	: Chiku, pomegranate, lemon (Citrus), Jamun, Aonla, guava, custard apple, papaya, coconut, ber, Almond, Banana, Dragon fruit, Drum stick
		Floriculture	: Rose, merry gold, vevanti, etc
		Other Crops	: Chikori, Fenugreek, Mulberi neem
2	Live stock	Bullocks and cows	
		Buffaloes	
		Sheep	
		Goats	
		Horse and camel	
		Poultry	
		Others animals	
3.	Fishery	340 km coastal belt	4832 tonnes fish production

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

### a) Soil type

S. No	Agro-climatic Zone	Characteristics
Zone–VI	North Saurashtra	<p>The influence area of North Saurashtra Agroclimatic Zone is spread among five districts viz., Amreli (7 talukas out of 10), Bhavnagar (7 talukas out of 14), Jamnagar (all the 10 talukas), Rajkot (9 talukas of 13) and Surendranagar (6 talukas out of 9) covering 39 talukas in all. The influence area of the zone lies between 21°-02' to 23°-16' North Latitude and 68°-56' to 72°-12' East Longitude. It is bounded in the north by the Gulf of Kutch and parts of Rajkot as well as Surendranagar districts, in the East by the Ahmedabad district and coastal part of Bhavnagar district, on the South by the Junagadh district and parts of Amreli as well as Rajkot district, to the west by Arabian sea.</p> <p>The North Saurashtra region which comprises the peninsular part of Gujarat has low to medium rainfall and shallow to medium black soils and also coastal saline alluvial soils. In this Agro-climatic zone, cotton (Bt), groundnut, pearl millet, wheat are the major crops which contribute considerably to the economy of the state. In Saurashtra, among this zone taking in to consideration the rainfall pattern, the topography, soil characteristics, the climate and the cropping pattern have been identified in Gujarat. The North Saurashtra zone have five main / sub station cum testing centre of University like Dry Farming Research Station with KVK, Targhadia (Rajkot District), Main Millet Research Station with KVK, Jamnagar, Oilseeds Research Station (Sesamum, Mustard, Sunflower) with KVK, Amreli, Dry Farming Research Station, Nanakandhasar, (Surendranagar District) and Dry Farming Research Station, Jamkhabhalia (Jamnagar District).</p>

### b) Topography

#### Agro – Ecological situation in the District

The advent of southwest monsoon greatly influences seasonal patterns of rainfall distribution in the district. Thus, mean annual rainfall provides useful comparison of agricultural potential of a given situation in the district. The mean rainfall in the district 539.17mm

The physiography of entire region of district is more or less flat. However, the region is undulating with slopes having little hilly areas from 25 to 150 meters. Physical features of the area vary from flat land to 150 meters above mean sea level. Most of the area falls in the range of 25m to 150m above mean sea level.

Based on the soil survey information of the zone, the soils of the district hence been broadly classified in to fine categories. Available information about the properties of these soils and their textures has been considered. The types of soils categories are as under: -

- Shallow black soils
- Medium black soils
- Saline alkali soils
- Costal alluvial soils
- Hilly soils

While delineating the zone into district agro ecological situations, the major factors including various soil types, altitude and the rainfall patterns have primarily been considered. The district can be delineated into five agro ecological situations.

Although, each of the situations has rainfed and irrigated condition, but irrigation has not been considered in identification of the agro ecological situations. While deciding the major crops, cropping patterns and constraints in production, mention has been made of both these conditions one or the other agro ecological situation occurs in the influence area of the district. The fact that this does not preclude the existence of more than one agro ecological situations within the same area.

Sl. No.	Agro Ecological Situation	Soil texture	Altitude	Principal crops	Special features	Approximate area (000ha)	Taluka included	Characteristics
AES-1	Shallow Black soils with 500-600 mm Rainfall	Sandy clay loam to clayey	75 – 150	Groundnut, wheat, sorghum, pearl millet	Well drained soils with rapid permeability	124	Kalawad, Jamjodhpur, Bhanvad, Okha	Moisture stress, temperature stress
AES-2	Shallow Black soils with 600-700 mm Rainfall	Clayey	75 – 150	Groundnut, wheat, sorghum, pearl millet	Slightly well drained soils with rapid permeability	180	Part of Kalyanpur, Jamnagar, Jamkhabhalia, Lalpur, Dhrol, Jodia	Moisture stress, temperature stress
AES-3	Coastal Alluvial soils with 300-400 mm Rainfall	Clayey loam to clayey	50	Groundnut, pearl millet, sorghum, chickpea	Low nitrogen and phosphorus	181	Jodia, part of Okha, Jamkhabhalia, Kalyanpur & Jamnagar	Salt affected salinity
AES-4	Coastal Alluvial soils with 500-700 mm Rainfall	Silt clay	25-50	Groundnut, pearl millet, sorghum, chickpea	Low nitrogen and phosphorus	299	Kalyanpur, Jodia & Jamnagar, Khambhadia, Lalpur, Dwarka	Salt affected salinity
AES-5	Coastal Alluvial shallow black soils with 300-400 mm Rainfall	Sandy loam to clay loam	0-25	Sorghum, Pearl millet, Groundnut, Sesamum	Arid climate	31	Okha	Known salinity for genus ephedra sea coast very rich in Alghiflor and fanner of economic importance.

### 2.3 Soil type

As the geographical formation of Saurashtra is of volcanic origin, the soils are generally derived from basaltic rock known as Deccan trap. This is the commonest rock in India and due to its extensive occurrence in south is called "Deccan Traps". In many parts, they have flat top features and hence, are also known as plateau basalt. The trap rocks, which occupy a large part of western coast of India, is also covering North Saurashtra zone. The most common colour of the trap rock in the region is dark grey. On weathering, trap rock forms a ferruginous gravelly material known as murrum, which underlies soil

formed in situ. Soils, thus derived are either brown red in colour or regular, the black soil. In district black or brown colour is predominant. The soils are shallow to moderately deep. The detailed soil survey information for the soils of Jamnagardistrict are as under.

S. No	Soiltype	Characteristics	Area in ha
1	Shallow black soils	<p>These soils have developed from basaltic trap especially from granite and gneiss parent materials. They light grey in colour. Taxonomically, they are classified as <i>Ustorthents</i> and <i>Ustochrepts</i>. Soils depth varies for cm to 45 cm. They are gravelly but mainly they are sandy clay loam to clayey in texture. The clay on tent in surface soil varies from 20% to 77.49% and calcium carbonate content varies from 3.76 to 26.71 per cent. The soil structure is weak, mainly sub angular blocky and occasionally crumb. Since these soils lack district profile layering and are shallow, capacity to retain moisture is not sufficient.</p> <p>The soils are neutral to alkaline in reaction <math>p^H</math> ranges from 7.3 – 8.4) and from fertility point of view, these are medium in available nitrogen, low to medium in available phosphorus and adequate in availability of potash.</p>	124000 ha (Kalawad, Jamjodhpur, Bhanvad, Okha)
2.	Medium black soils	<p>The major portion of Jamnagar (Some part of Kalyanpur, KHambhaliya&amp; Jamnagar, major part of Lalpur, Dhrol, Jodiataluka is covered under medium black soils. These residual soils have basaltic trap parent materials. These soils vary in depth from 30 to 60 cm or more at few places. They are calcareous in nature. A layer of murrum (Unconsolidated material of decomposed trap and limestone) is generally found in sub soil layer. The drainage does not pose any problem, because of porous sub soil layer.</p> <p>Morphologically, the profile of these soils has A-C horizon characteristics, having moderate sub angular blocky structure. They are plastic and sticky and hard in consistency on drying. The colour of these soils varies from very dark brown to light grey. Taxonomically, these soils are classified as <i>Ustochrepts</i> in <i>Inceptisol</i> order. The soils are dominated by smectite group of clay minerals which give to mild cracking in dry season, due to which these are further classified as <i>Vertic – Ustochrepts</i> at sub group level.</p> <p>The soils are clay loam to clayey in texture. The souls are highly retentive of moisture because higher percentage of clay content. The percentage of clay content in the surface varies from 31.79 to 73.27 per cent, while no definite trend of clay content in different horizon of the profile is observed.</p> <p>The chemical composition of these soils is neutral to alkaline reaction (<math>p^H</math>7.4 to 8.9). Calcium is the dominant exchangeable cation followed by magnesium. The soils are generally low to medium in available nitrogen, phosphorus and adequately supplied with potassium. The calcium carbonate contents various from 5.26 to 20.36 per cent in these soils.</p>	180000 ha (Part of Kalyanpur, Jamnagar, Jamkhambhalia, Lalpur, Dhrol, Jodia)
3.	Saline alkalisols	<p>Saline alkali souls are extensively distributed on the coastal are3a as well as inlands. These soils are located in the districts of Jamnagar (Jodia, part of Okhamandal, Kalyanpur, Jamkhambhaliya and jamnagartalukas). These soils are originated as a result of higher water table, low rainfall and high evaporation losses during summer months resulting into upward movement of salts, poor drainage, use of saline ground water and ingress of sea water (in coastal areas). The souls are classified as <i>Fluvaquents</i>, <i>Halaquents</i>, and <i>Haplaquents</i> (Entisol): <i>Haplaquents</i> and <i>Haptaquepts</i> in order – <i>Inceptisol</i>. Texturally these soils vary from sandy loam to clay. The degree of salinity and alkalinity is also highly variable.</p>	181000 ha (Jodia, part of Okha, Jamkhambhalia, Kalyanpur& Jamnagar)

		In Jamnagar district, the saline and alkaly soils are widely distributed mainly termed as coastal soil. The soils are sandy loam to clay loam in texture. The EC varies from 1.54 to 38.6 m.mhos/cm and ESP ranges from 9.2 to 74.64% in surface soil. The p <sup>H</sup> varies from 7.6 to 9.00 in surface soils and normally calcareous in nature. Most of these soils are low to medium in available nitrogen and phosphorus and high in available potash.	
4.	Costal alluvials oils	these soils are located in the district of Jamnagar consisting Kalyanpur, Jodia and Jamnagar, Jamkhambhadia, Lalpur, Dwarka (OkhaMandal) and Dhrol, talukas. These soils are sandy clay loam to clay in texture. These soils are also affected with salts and are saline sodic in nature. The surface soil varies from 1.54 to 38.6 m.mhos/cm in Electrical conductivity, and from 9.2 to 74.64 in Exchangeable sodium percentage. The soil reaction varies with situation ranging from moderately alkaline or highly alkaline (p <sup>H</sup> 7.6 to 9.0). The souls are normally medium in fertility. Taxonomically, these souls are classified as <i>Halaquents</i> and <i>Haplaquents</i> – Entisol and <i>Helaquepts</i> and <i>Hapdaquents</i> in Inceptisol order.	299000 ha (Kalyanpur, Jodia & Jamnagar, Khambhadia, Lalpur, Dwarka)
5.	Hilly soils	These soils occur in some parts Bhanvad and Jamjodhpurtalukas of Jamnagar district. Because of the steep slope and erosion, the profile is not developed. These soils are developed because of weathering of parent materials existing basaltic trap limestone and sand stone. These soils are shallow to moderately deep and are coarse to find in their texture. The texture varies from loamy sand to clay loam to clay. They have under composed rock fragments and are low in fertility status. These soils are placed in to <i>Ustorthents</i> and those near foothills and valley are comparatively deeper can be placed under <i>Ustochrepts</i> and can be classified under estisol and <i>Inceptisol</i> orders respectively.	31000 ha (Some part of Bhanvad and Jamjodhpur)

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

S. No	Crop	Area (ha)	Production (Qtl)	Productivity (Qtl /ha)
	<b>Oilseeds</b>			
1	Groundnut	378335	5675025	15
2	Sesamum	6280	22608	3.6
3	Castor	7375	192487.5	26.1
4	Soybean	8	140	17.5
	<b>Total Oilseeds</b>	<b>391998</b>		
	<b>Cash Crops</b>			
5	Cotton	180440	4150120	23
6	sugarcane	150	7500	50
	<b>Total Cash Crops</b>	<b>180590</b>		
	<b>Food Grain</b>			
7	Wheat	58600	1881060	32.1
8	Pearlmillet	3520	46112	13.1
9	Sorghum	8100	85050	10.5
10	Maize	2850	20520	7.2
	<b>Total Food Grains</b>	<b>73070</b>		
	<b>Pulse Crops</b>			
11	Greengram	4185	23436	5.6
12	Blackgram	2910	17867.4	6.14
13	Cowpea	285	1071.6	3.76
14	Pigeon pea	175	1925	11

15	Moothbean	360	1512	4.2
16	Chickpea	31300	350560	11.2
17	Cluster bean	75	1406.25	18.75
18	Other pulses	15	0	
	<b>Total Pulses</b>	<b>39305</b>		
	<b>SPICES AND CONDIMENTS</b>			
19	Cumin	4300	36550	8.5
20	Fenugreek	90	1410	15.7
21	Coriander	2300	33350	14.5
22	Ajwan	5015	42630	8.5
24	Chilli	1550	29450	11.9
25	Garlic	600	47700	79.5
	<b>Total spices</b>	<b>13855</b>	<b>191090</b>	
	<b>VEGETABLE</b>		0	
27	Onion	200	40800	204.0
28	Potato	100	14650	146.5
29	Brinjal	1755	324680	185.0
30	Tomato	2355	701790	298.0
31	Cauliflower	97	14250	146.9
32	Cowpea	788	58940	74.8
33	Cabbage	811	136570	168.4
34	Okra	2790	200880	72.0
37	Cucurbits	1445	236110	163.4
38	Cluster bean	4524	436570	96.5
39	Other vegetable	160	17680	110.5
	<b>Total Vegetable</b>	<b>15025</b>	2182920	
	<b>FRUIT CROPS</b>		0	
40	Chiku	249	28810	115.7
41	Pomegranate	565	50290	89.0
42	Citrus	257	19040	74.1
44	Aonla	35	2100	60.0
45	Guava	12	520	43.3
46	Custard apple	65	4910	75.5
47	Papaya	483	301880	62.5
48	Coconut	505	42470	84.1
49	Ber	351	33270	94.8
50	Kharek	91	4550	50
51	Banana	44	19360	440.0
52	Mango	470	28670	61.0
53	Cashew nut	4	40.0	10.0
54	Other fruits	177	13890	78.5
55	<b>Total Fruits</b>	<b>3308</b>	549800	
56	<b>FLOWERS</b>		0	
57	Rose	66	6150	93.2
58	Merry gold	140	11450	81.8
60	Jasmine	3	260	86.7
62	Lilly	2	170	85.0
63	Other flowers	165	14650	88.8
	<b>Total flowers</b>	<b>376</b>	32680	
	<b>OTHER CORPS</b>		0	
64	Chikori	50	4325	86.5
65	Palma Rosa	43	5375	125
	<b>Total Other crops</b>	<b>93</b>		
	<b>Fodder crops</b>			
67	Lucern	1105	132600	120
68	Sorghum	16660	2499000	150
69	Maize	2910	0	

<b>Total Fodder crops</b>	<b>20675</b>		
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\* Source : DAO, &Dy.Dir.Hort., Jamnagar

## 2.5. Weather data (January-18 to March-19)

Weekly mean Weather data-at JAU, Jamnagar during-2018									
Week No	Temp. °c		R.H.%		WS	BSS	Eo	Rain	Rainy
	Max	Min	I	II	(kmph)	(hrs)	(mm)	(mm)	Days
1-J	25.9	10.9	80	27	3.8	9.1	3.1		
2	26.7	15.1	70	35	5.7	6.4	3.7		
3	28.7	13.9	86	34	4.5	9.1	3.4		
4	26.6	12.5	90	26	4.3	9.1	3.3		
5	28.2	13.3	86	29	4.2	9.1	3.6		
6-F	27.6	14.9	80	31	4.3	7.6	3.8		
7	29.2	15.5	72	26	6.4	9.1	4.3		
8	31.3	17.9	95	29	5.4	8.9	4.5		
9	34.0	18.8	71	25	21.7	32.6	5.8		
10-M	33.0	18.2	85	24	6.9	10.0	6.4		
11	32.2	17.8	90	32	8.2	10.0	6.3		
12	32.7	21.0	80	28	9.1	9.7	7.0		
13	38.6	21.9	78	18	8.5	10.0	9.4		
14-A	34.7	21.9	88	35	9.3	9.5	9.1		
15	35.7	24.2	88	46	9.8	9.5	9.2		
16	36.3	24.0	80	31	9.8	10.6	9.3		
17	37.1	23.6	74	30	9.8	10.6	9.3		
18	36.6	25.9	78	37	13.2	10.3	9.6		
19-M	35.7	26.0	85	48	11.8	10.5	8.7		
20	36.5	26.7	84	46	14.8	10.2	9.3		
21	37.3	27.3	81	44	13.3	11.1	9.4		
22	35.6	28.2	82	45	14.4	11.0	9.0		
23-J	35.6	29.2	77	51	16.9	10.6	9.2		
24	36.0	29.3	77	49	18.9	10.6	9.2		
25	35.1	28.3	78	56	15.8	10.6	8.8		
26	35.7	27.8	81	55	12.5	5.0	7.0	22.0	2
27-J	35.2	27.6	79	59	14.7	6.4	6.5	3.0	
28	33.8	27.5	84	65	12.7	1.1	5.2	3.0	1
29	31.1	26.2	93	78	12.4	0.4	4.3	251.0	4
30	32.8	26.9	86	63	16.6	2.0	4.7		
31	33.2	26.9	85	61	15.7	2.9	4.9		
32-A	31.8	26.1	87	67	12.7	2.0	4.7	7.5	1
33	31.1	26.1	90	78	11.6	0.7	4.2	31.0	2
34	30.4	24.8	93	79	9.2	2.4	3.6	32.5	2
35	30.7	24.7	91	75	8.4	2.4	3.8	9.5	2
36-S	30.3	23.5	89	61	8.9	6.4	4.3	10.5	1
37	30.3	23.5	87	59	7.2	6.9	4.5		
38	31.6	24.4	85	53	8.5	9.2	4.9		
39	34.1	22.5	93	42	6.2	8.5	4.8		
40-O	37.3	23.6	86	30	3.9	9.4	5.5		
41	37.4	23.5	81	26	3.4	8.2	5.8		
42	36.0	21.6	90	25	3.7	9.1	5.3		
43									
44									
45-N									
46									
47									
48									
49-D									
50									
51									
52									
<b>Mean</b>	<b>33.1</b>	<b>22.7</b>	<b>84</b>	<b>44</b>	<b>10.0</b>	<b>8.3</b>	<b>6.2</b>	<b>370.0</b>	<b>15</b>
<b>Highest</b>	<b>38.6</b>	<b>29.3</b>	<b>95</b>	<b>79.29</b>	<b>21.7</b>	<b>32.6</b>	<b>9.6</b>		



Lowest	25.9	10.9	70	18	3.4	0.4	3.1		
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\* Source: Meteorological observatory, Millet Research Station, JAU, Jamnagar

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

Category	Population	Production	Productivity
<b>Cattle</b>	349229	2475.2 qtl. total milk	
<i>Crossbred</i>			8.585 lit/day
<i>Indigenous</i>			3.375 lit/day
<b>Buffalo</b>	209616		4.451 lit/ha
<b>Sheep</b>	232530	295.16 lakh kg wool	
<i>Crossbred</i>			
<i>Indigenous</i>			
<b>Goats</b>	173022		0.274 lit/ha
<b>Pigs</b>		290097.9 Qtl meat	
<i>Crossbred</i>			
<i>Indigenous</i>			
<b>Poultry</b>	38041	12.77 lakh eggs	
Hens			
<i>Desi</i>			
<i>Improved</i>			
<b>Horse &amp; Camels</b>	410		
<b>Donkey</b>	2260		
	2577		
<b>Total Milk</b>			
<b>Total egg</b>			
<b>Total wool</b>			

Category	Area	Production	Productivity
Fish			
<i>Marine</i>			
<i>Inland</i>			
Prawn			
Scampi			
Shrimp			

Source: Assistant Directorate of Fishries, Jamnagar

## 2.7 Details of Operational area/ Villages (2018-19 to 2020-21)

SI No	Taluka	Name of the village	Major crops & enterprises	Major problem identified	Identified thrust area
1	Jamnagar	Chandragadh, Khojaberaja, Lothiya, NaniBanugar, Suryapara	Cotton, groundnut, sesamum, castor, greengram, wheat, Gram, cumin, mustard,	Heavy infestation of sucking pest in cotton, stem rot disease & white grub in Groundnut, Root rot in castor, Less area under horticulture crops, Blight in cumin, salinity, pink bollworm in cotton	<ul style="list-style-type: none"> <li>- ICM in major crops of the district</li> <li>- Organic crop production</li> <li>- Introduction of new crop</li> <li>- Recycling of farm waste</li> <li>- Popularization of MIS</li> <li>- Motivation of fishries cultivation</li> <li>- Soil Reclamation</li> <li>- Farm women empowerment</li> <li>- Farm mechanization</li> </ul>
2	Kalyanpur	Gadhka, Patelka, Haripar, Juvanpur, Jampar	Vegetable, Soyabean, flowers, live stock, fisheries		

**2.8 Priority thrust areas**

Sl. No	Crop/ Enterprise	Thrustarea
1.	Cotton, groundnut, castor, cumin, coriander, wheat, vegetables, fruits, etc.	<ul style="list-style-type: none"> <li>➤ Integrated Crop Management in major crops</li> <li>➤ IPM &amp; IDM in major field crops</li> <li>➤ Whitegrub management in Groundnut</li> <li>➤ Wireworm management in garlic &amp; Onion</li> <li>➤ Micronutrient management in wheat</li> </ul>
2.	Organic farming	Enhancement of organic farming through improved technologies
3.	Farm waste/ organic matter	Recycling of farm waste through composting, vermicompost, green manuring, etc.
4.	Micro irrigation	Efficient use of water by micro irrigation system, water harvesting structure, and water conservation techniques
5.	Soil	Reclamation of saline & alkaline soils
6.	Farm Women	Farm women empowerment by training in value addition, handi crafts, and small scale enterprises
7.	Fisheries	Fish Farming
8.	Improved Implements	Popularization of the mechanized technological know how
9.	Plant protection	Pinkboll worm in cotton and white grub in groundnut,
10.	Horticultural area	Enhancement of pomegranate, datepalm, draganfruit,
11.	Storage facility	Requirement of storage techniques and value addition in farm produce
12.	Water conservation & use of Micro irrigation	Efficient use of water by micro irrigation system, water harvesting structure, and water conservation techniques

**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
7	22	174	448

Training		Extension Activities	
(3)		(4)	
Number of Courses	Number of Participants	Number of activities	Number of participants
47	1225	358	39632

Seed Production (Qtl.)	Planting material (Nos.)	Fish seed prod. (Nos)	Soil Samples
(5)	(6)	(7)	(8)
264	500	500	550

**3.1. B. Operational areas details proposed during 2019-20**

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.)*
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1	Groundnut	Lower yield, replacement of old variety	300000 ha.	Chandragadh, Khojaberaja, Lothiya, NaniBanugar, Suryapara, Gadhka, Patelka, Haripar, Juvanpur, Jampar	OFT, FLD and Training
2	Chilli	Thrips, Curling of leaves, nutritional deficiency	1500 ha	- " -	OFT and Training
3	Garlic	Purple blotch, wireworm, yellowing, tip burning	600 ha	- " -	OFT and Training
4	Sesame	Leaf webber, mite, blight, stem rot, root rot, yellowing, replacement of old variety	12000 ha.	- " -	OFT, FLD and Training
5	Wheat	Fall army worm, Stem borer, Termite, nutritional deficiency,	58000 ha	- " -	OFT, FLD and Training
6	Vegetable mittens (Okra, Brinjal)	Drudgery reduction, cut & wounds, skin hardness, blisters and abrasions,	2790 ha	- " -	FLD and Training
7	Animal Husbandry	Due to inadequate nutrients in the daily ration, the % fat in milk and productivity of the animal decreased hence, financial loss.	Majority farmers (350000)	- " -	FLD and Training
8	Fisheries	Direct stocking of Spawn, Mortality rate is higher during spawn to fingerling stage rearing and uncertain in production	In Majority reservoir	Nana Khadba NaviPipar NaviVeraval	FLD
9	Fisheries	Stocking of single species, total production is reduce	In Majority reservoir	Nana Khadba NaviPipar NaviVeraval	FLD
10	Cotton	Pink bollworm, redding & yellowing of leaves, sucking pests, weevil,	180440		FLD and Training
11	Chicory	ICM	50		FLD and Training
12	Cumin	IPM, IDM, INM, variety	4300		FLD and Training
13	Ajwain	IDM, Variety	5015		FLD and Training
14	Coriander	IDM, IPM, Variety	2300		FLD and Training
15	Pearl millet	Variety, IPM, IDM	3520		FLD and Training
16	Chick pea	IPM, Variety	31300		FLD and Training
17	Kitchen gardening	Nutritional balance	Majority farmers		FLD and Training
18	Fisheries	Inadequate use of natural resources	-	Rasulnagar	FLD and Training

\* Support with problem-cause and interventions diagram

### 3.2. Technologies to be assessed and refined

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

Thematic areas	Cereals	Oil seeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation		2								2
Seed / Plant production										
Weed Management										
Integrated Crop Management										
Integrated Nutrient Management										
Integrated Farming System										
Mushroom cultivation										
Drudgery reduction					1					1
Farm machineries										
Value addition										
Integrated Pest Management		1								1
Integrated Disease Management										

Resource conservation technology										
Small Scale income generating enterprises										
<b>TOTAL</b>		<b>3</b>			<b>1</b>					<b>4</b>

### A.2. Abstract on the number of technologies to be refined in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Kitchen garden	Tuber Crops	TOTAL
Varietal Evaluation										
Seed / Plant production										
Weed Management										
Integrated Crop Management										
Integrated Nutrient Management										
Integrated Farming System										
Mushroom cultivation										
Drudgery reduction										
Farm machineries										
Post Harvest Technology										
Integrated Pest Management					1					1
Integrated Disease Management					1					1
Resource conservation technology										
Small Scale income generating enterprises										
<b>TOTAL</b>					<b>2</b>					<b>2</b>

### A.3. 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
Evaluation of Breeds								
Nutrition Management	1							1
Disease of Management								
Value Addition								
Production and Management							1	1
Feed and Fodder								
Small Scale income generating enterprises								
<b>TOTAL</b>	<b>1</b>						<b>1</b>	<b>2</b>

### A.4. Abstract on the number of technologies to be refined in respect of livestock / enterprises

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

## B. Details of On Farm Trial / Technology Assessment during 2019-20

S. No.	Crop/ enterprise	Prioritized problem	Title of OFT	Technology options	Source of Technology	Name of critical input	Qty per trial	Cost per trial	No. of trials	Total cost for the OFT (Rs.)	Parameters to be studied	Team members
1	Sesame	To manage the leaf webber infestation	Management of sesame leaf webber	1. Injudicious use of insecticides. (Spray insecticides at weekly interval) (Farmers)						3600	No. of larvae per 1 meter, yield	KVK Staff

		in sesame		practices) 2. Recommended practices Application of the insecticide will be started at pest infestation occurred. Cartap hydrochloride 50% S.P. @ 10g/10 Liter of water at the time of infestation. (Recommendation)	SAU	Cartap hydrochloride,	500 gm	1200	3				
2	Fish	To reduce the farming cost by using use maximum natural resources (Food, water body etc.) To increase total yield and Income.	<b>Stocking of Freshwater prawn (Macrobrachium rosenbergii) with IMC fingerlings in village pond/Reservoir</b>	1. Farmer's practices:- stocking a single species <i>Catlacatla</i> into ponds/reservoir.	Farmer's own practices;				3	18600	Average body weight of IMC and Prawn at the time of harvesting Total production of fish and prawn (in KG.) at the time of harvesting from village pond/reservoir Total Net income	KVK Staff	
3	Sesame	Low Yield, Introduction of new high yielding variety,	Assessment of the performance of high yielding Sesame varieties in summer irrigated condition for Jamnagar District	1 G. Til 2 2 G. Til 3 3. G. Til. 5	JAU, Junagadh	Seed	1 kg seed of both variety	500	3	1500	Yield (Kg/ha), Plant Height (cm), Capsule per plant, 1000 seed weight (g), Maturity days, Economics	Shri. S. H. Lakhani Scientist (Agronomy)	
4	Groundnut	Low yield in existing variety, Enhancing productivity	Assessment of suitable high yielding Groundnut Variety in kharif season for Jamnagar District	1 GG-20 2 GJG-22 3 GJG-32	JAU, Junagadh	Seed	30 kg seed of both variety	8100	3	24300	Pod & Haulm yield (kg/ha), Plant Height (cm), No. Of branches per plant, No. of pods per plant, 100 pods weight (g), 100 kernel weight (g), Economics	Shri. S. H. Lakhani Scientist (Agronomy)	
5	Solar cooker	Time, fuel & drudgery reduction	Comparison of solar cooker with traditional cooking system	Preparation by traditional method Preparation by roasting Preparation by solar cooker	Department of Renewable energy	Solar cooker	1	1600	5	1600	Time consumption Fuel consumption Movement Organolaptic test	A.K. Baraiya	
6	Chilli	To minimize the thrips incidence in chilli. To reduce	Management of thrips in chilli	1. Farmer's Practices : Injudicious use of insecticides. [use of chlorpyrifos, quinalphos flubendiamide,						3900	Record thrips population from five randomly selected	KVK Staff	

		injudicious use of chemical pesticide. To minimize residual effect of chemical		imidacloprid, Fipronil Thiamethoxamcypermethrin, lamdacyhalothrin after infestation of thrips at weekly interval without follow ETL]							plants from each plot at 7 days after spray 2. Record yield at every picking	
				2. <b>Recommendation</b> : Seed treatment with imidacloprid 70 WS (7.5 g/kg seed) and dipping of seedling before transplanting for two hours in solution of imidacloprid 17.8 SL (10 ml/10 litre water) or thiamethoxam 25 WG (10 g/10 litre water). Spraying of spinosad 45 SC (3 ml/10 litre water)	SAU	Imidacloprid 70 WS, 10 gm, Imidacloprid 17.8% SL, 100 ml, Thiamethoxam Spinosad, 100 gm, 100 ml	120, 220, 210, 450	3				
				3. <b>Refinement:-</b> Spray of <i>Bearuveriabassiana</i> @ 5 g/lit of water at 15 days interval	SAU	<i>Bearuveriabassiana</i>	2 kg	300	3			
7	Garlic	To minimize the infestation of purple blotch of garlic. To increase production. To reduce yield loss of garlic	Management of purple blotch of garlic	1. <b>Farmer's Practices</b> : Injudicious use of fungicide (Spray insecticides at weekly interval), spray fungicide after initiation/heavy infestation of diseases						7800	Record thrips population from five randomly selected plants from each plot at 7 days after spray 2. Record yield at every picking	KVK Staff
				2. <b>Recommendation</b> : Foliar sprays of Mancozeb @0.25%, Tricyclazole @ 0.1% and Hexaconazole @0.1% at 30, 45 and 60 days respectively after transplanting helps in checking disease incidence	SAU	Mancozeb, 1 kg, 500 ml, 1 Tricyclazole Hexaconazole	300, 200, 300	3				
				3. <b>Refinement:-</b> Application of Trichoderma @ 5 kg/ha along with FYM @ 1 tonne/ha by broadcasting method + Foliar sprays of Hexaconazole @ 0.1% and Tebuconazole @0.1% at 40 and 60 days respectively after transplanting helps in checking disease incidence	SAU	Hexaconazole, 500 ml, 1500 Tebuconazole, 250 ml, 1500	300, 1500	3				

**OFT-1 Sesame (Assessment)**

**Title:** Management of sesame leaf webber

**Objective:** To manage the leaf webber infestation in sesame

**Problem definition:** attack of leaf webber is increase

- Heavy infestation of leaf webber was found
- Improper cultivation practices
- Lack of knowledge about pest outbreaks and its management

**Problem diagram :-**

Improper cultivation practices	<b>Management of sesame leaf webber</b>	Irregular irrigation
Mono-cropping system		Lack irrigation facilities
No adoption of recommended practices		Lack of knowledge about pest outbreaks and its management
Crop failure due to water logging condition in rainy season		In judicious use of chemical pesticide
Farmer follows instruction given by the local pesticides retailer		Heavy incidence of pest and disease attack

**Treatments:**

1. Injudicious use of insecticides. (Spray insecticides at weekly interval) **(Farmers practices).**
2. Recommended practices Application of the insecticide will be start at pest infestation occurred. Cartap hydrochloride 50% S.P. @ 10 g/10 Litre of water at the time of infestation. **(Recommendation)**

**No. of Replication:** 3 (Farmers)

**Source of Technology :-** Junagadh Agricultural University, Junagadh

**Observations:**

1. Record no. of larvae per plant/1 meter row length.
2. Yield data.

**OFT: 2 (Assessment)**

**Title: Stocking of Freshwater prawn (*Macrobrachium rosenbergii*) with IMC fingerlings in village pond/Reservoir**

**Objectives:** 1. To reduce the farming

cost by using use maximum natural resources (Food, water body etc.)

2. To increase total yield and Income.

**Experimental Animal:** IMC fingerlings (*Catlacatla*) and *M. rosenbergii*

**Problem diagram :-**

Over stocking of seeds	<b>Stocking of Freshwater prawn (<i>Macrobrachium rosenbergii</i>) with IMC fingerlings in village pond/Reservoir</b>	Minimum usage of natural resources
Single Species stocking		Total production decrease
Lack of knowledge		Low income

**Treatment:** 1. **Farmer's practices:-** stocking a single species *Catlacatla* into ponds/reservoir.

2. **Assessment:-** stocking of *M. rosenbergii* with *Catlacatla* fingerlings into ponds/reservoir

**No of Replications:** 3 farmers

**Source of Technology:-** Central Inland Fisheries Research Institute, Barrakpore, Calcutta.

**Thematic area:** Production and management

**Observations:**

1. Average body weight of IMC and Prawn at the time of harvesting
2. Total production of fish and prawn (in KG.) at the time of harvesting from village pond/reservoir
3. Total Net income

**OFT :-3 Sesame**

**Title :Assessment of the performance of high yielding Sesame varieties in summer irrigated condition for Jamnagar District**

**Objective :** To find out suitable high yielding sesame variety for summer irrigated condition

**Problem definition:**

1. Low yield.
2. Threat to the sustainability of crop production
3. High cost of production
4. Shortage of irrigation water

**Problem diagram :-**

Improper cultivation practices	<b>Assessment of the performance of high yielding Sesame varieties in summer irrigated condition for Jamnagar District</b>	Multi season cropping system
Low yielding variety		Irregular irrigation/ irregular rainfall
Lack of knowledge about balance use of nutritional recommendation		Lack of knowledge about pest outbreaks and its management
High Wind velocity		In judicious use of chemical fertilizer

**Treatments :**

1. T<sub>1</sub> :- G. Til 2 (Farmers Practices)
2. T<sub>2</sub> :- G. Til 3
3. T<sub>3</sub> :- G. Til 5

**No. of Replication :-** 3 (Farmers)**Source of Technology:** - Junagadh Agricultural University, Junagadh**Thematic area:** Varietal evaluation**Observations :-**

1. Yield (Kg/ha),
2. Plant Height (cm),
3. Capsule per plant,
4. 1000 seed weight (g),
5. Maturity days,
6. Economics

**OFT: 4 Groundnut****1. Title :** Assessment of suitable high yielding Groundnut Variety in kharif season for Jamnagar District**2. Objective::** To find out suitable high yielding groundnut variety for kharif season**Problem definition:**

1. Low yield.
2. Threat to the sustainability of crop production
3. High cost of production
4. Lack of well distributed rainfall & low rainfall

**Problem diagram :-**

Improper cultivation practices	<b>Assessment of suitable high yielding Groundnut Variety in kharif season for Jamnagar District</b>	Multi season cropping system
Low yielding variety		Mono-cropping system
Irregular rainfall		Lack of knowledge about nutrient management
Heavy incidence of pest and disease attack		In judicious use of chemical fertilizer
In judicious use of pesticide		Heavy infestation of white grub was found

**Treatments:**

1. T<sub>1</sub> :- GG-20 (Farmers Practices)
2. T<sub>2</sub> :- GJG-22
3. T<sub>3</sub> :- GJG-32

**No. of Replication :-** 3 (Farmers)**Source of Technology:** - Junagadh Agricultural University, Junagadh**Thematic area:** Varietal evaluation**Observation:**



1. Pod & Haulm yield (kg/ha),
2. Plant Height (cm) at harvest time,
3. No. of branches per plant ,
4. No. of pods per plant ,
5. 100 pods weight (g),
6. 100 kernel weight (g),
7. Economics

**OFT-5 Solar cooker****Title :- Comparison of solar cooker with traditional cooking system****Items:-**

1. Murbba,
2. sweet potato,
3. sweet corn,
4. Salted -Roasted groundnut

**Objective:-**

1. To improve quality of Prepared items
2. To reduce drudgery of farm women
3. To reduce time and fuel consumption

**Treatment: - Item no. 1**

1. Preparation by traditional method
2. preparation by sunlight heat
3. preparation by solar cooker

**Treatment: - Item no. 2-4**

1. Preparation by traditional method
2. Preparation by roasting
3. Preparation by solar cooker

**No. of Replications: - 4****Source of Technology :-** Department of renewable energy**Observations:-**

1. Time consumption
2. Fuel consumption
3. Movement
4. Organo laptic test
  - a. Colour
  - b. Texture,
  - c. Test
  - d. Overall acceptance
5. Self life

**OFT-6****Title: Management of thrips in chilli.****Objective:** To minimize the thrips incidence in chilli. To reduce injudicious use of chemical pesticide. To minimize residual effect of chemical**Problem definition:**

1. Heavy infestation of Thrips was found
2. Lack of seed treatment and improper cultivation practices
3. Lack of knowledge about pest outbreaks and its management
4. Injudicious use of nitrogenous fertilizer

**Problem diagram :-**

Resurgence of thrips	<b>Management of thrips in chilli</b>	Multi season cropping system
Mono-cropping system		Lack of knowledge about pest outbreaks and its management
Lack of seed treatment		Lack of improper cultivation practices

In judicious use of pesticide		In judicious use of chemical fertilizer
Irregular irrigation		Improper use of FYM (without decomposition)

**Treatments:**

- Farmer’s Practices:**-Injudicious use of insecticides. [use of chlorpyrifos, quinalphos, flubendiamide, imidacloprid, Fipronil, Thiamethoxamcypermethrin, lamdacyhalothrin after infestation of thrips at weekly interval without follow ETL]
- Recommendation** :-Seed treatment with imidacloprid 70 WS (7.5 g/kg seed) and dipping of seedling before transplanting for two hours in solution of imidacloprid 17.8 SL (10 ml/10 litre water) or thiamethoxam 25 WG (10 g/10 litre water). Spraying of spinosad 45 SC (3 ml/10 litre water)
- Refinement:**- Spray of *Bearuveria bassiana* @ 5 g/lit of water at 15 days interval

**No. of Replication:** 3 (Farmers)

**Source of Technology:** - Junagadh Agricultural University

**Thematic area:** IPM

**Observations:**

- Record thrips population from five randomly selected plants from each plot at 7 days after spray
- Record yield at every picking.

**OFT-7 Garlic**

**Title: Management of purple blotch of garlic.**

**Objective:** To minimize the infestation of purple blotch of garlic. To increase production. To reduce yield loss of garlic

**Problem definition:** Incidence of Thrips is increase

- Heavy infestation of Thrips and purple blotch was found
- Lack of seed treatment and improper cultivation practices
- Lack of knowledge about pest, diseases outbreaks and its management
- Injudicious use of nitrogenous fertilizer
- Lack of fungicides use as preventive measure

**Problem diagram :-**

Improper cultivation practices	<b>Management of purple blotch of garlic</b>	Multi season cropping system
Mono-cropping system		Heavy infestation of purple blotch was found
Lack of seed treatment		Lack of knowledge about diseases outbreaks and its management
In judicious use of pesticide/fungicide		In judicious use of chemical fertilizer
Irregular irrigation		Improper use of FYM (without decomposition)

**Treatments:**

- Farmer’s Practices** :-Injudicious use of fungicide (Spray insecticides at weekly interval), spray fungicide after initiation/heavy infestation of diseases.
- Recommendation** :-Foliar sprays of Mancozeb @0.25%, Tricyclazole @ 0.1% and Hexaconazole @0.1% at 30, 45 and 60 days respectively after transplanting helps in checking disease incidence. **(Junagadh Agricultural University;Director of Onion & Garlic Research Station, ICAR)**
- Refinement:**- Application ofTrichoderma @ 5 kg/ha along with FYM @ 1 tonne/ha by broadcasting method + Foliar sprays of Hexaconazole @ 0.1% and Tebuconazole @0.1% at 40 and 60 days respectively after transplanting helps in checking disease incidence.

**No. of Replication:** 3 (Farmers)

**Source of Technology:** - Junagadh Agricultural University; Director of Onion & Garlic Research Station, ICAR

**Thematic area:** IDM

**Observations:**

1. Record no. of infected plant per 1 meter row length
2. Yield data

**C. Details of On Farm Trial / Technology Refinement during 2019-20****3.3 FRONTLINE DEMONSTRATIONS****A. Details of FLDs to be organized –**

Sr. No.	Name of Crop/Enterprise	Name of Variety/Enterprises	Thematic area	Technology demonstrated	Critical Inputs	Season and year	Area (ha.)	No. of farmers/Demo.	Parameters identified
1	Cotton	Bt. Cotton	IPM/INM	Insecticide, Bio pesticide	Azadirectin, Profenophos.,MDP,SNPV <i>Beauveriabassiana</i>	Kh-19	10	25	Pest population, yield
2	Chicory		ICM	Bio pesticide Bio fertilizer	<i>Beauveriabassiana</i> Azotobacter, PSB	Kh-19	2	5	Yield
3	Wheat	GW-463	Varietal	Variety	seed	Rabi-19	4	10	Yield
4	Cumin	GC-4	IPM/IDM	Bio pesticide Bio fertilizer	Trichoderma, <i>Beauveriabassiana</i> Azotobacter, PSB	Rabi-19	4	10	Yield, % Plant damage
5	Ajwain	Gujarat Ajwain-2	IPM/IDM	Bio pesticide Bio fertilizer	Trichoderma, <i>Beauveriabassiana</i> Azotobacter, PSB	Rabi-19	4	10	Yield, % Plant damage
6	Coriander	GC-2	IPM/IDM	Bio pesticide Bio fertilizer	Trichoderma, <i>Beauveriabassiana</i> Azotobacter, PSB	Rabi-19	8	20	Yield
7	Pearl Millet	GHB-732	Varietal	Variety	Seed (GHB-732) 1.5 kg	Sum- 19-20	4	10	Yield
<b>Other Scheme</b>									
11	<b>NFSM-Chickpea</b>	GG-5	Improved Variety with ICM	Improved Variety, Bio pesticide, Bio fungicide, Bio fertilizer	Seed(GG-5), Beauveria bassiana, Trichoderma, PSB, Rhizobium	Rabi-19-20	20	50	Yield, % pod damage
12	<b>NMOOP-Groundnut</b>	GJG-22/GJG 9	Improved Variety	Improved Variety	Seed (GJG-22/GJG-9)	KH-19	30	75	Yield, % pod damage
13	<b>NMOOP-Sesame</b>	GTil -3/5	Improved Variety with ICM	Improved Variety, with ICM	Seed(GTil-3/5), Beauveria bassian, Trichoderma, Pendimethalin, PSB, Azotobacter and Micro nutrient	Sum-19-20	20	50	Yield, % pod damage
14	<b>ATIC Cotton</b>	BT cotton	ICM	Bio pesticide Bio fertilizer	Beauveriabassiana, SNPV, MDP, PSB and Azotobactor	Kh-19	20	50	Yield
15	<b>ATIC G'Nut</b>	GG-20	ICM	Bio pesticide Bio fertilizer	Beauveriabassiana, PSB and Rhizobium, Trichoderma	Kh-19	20	50	Yield
16	<b>ATIC Cumin</b>	GC-4	ICM	Bio pesticide Bio fertilizer	Beauveriabassiana, PSB, Azotobactor Trichoderma	Rabi-19	10	25	Yield
17	<b>ATIC Coriander</b>	GC-2	ICM	Bio pesticide Bio fertilizer	PSB, Azotobactor, Beauveriabassiana, Trichoderma	Rabi-19	10	25	Yield

					<b>Total</b>		<b>174</b>	<b>435</b>	
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**Sponsored Demonstration**

<b>Crop</b>	<b>Area (ha)</b>	<b>No. of farmers</b>
-	-	-

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

<b>S. No.</b>	<b>Activity</b>	<b>No. of activities</b>	<b>Month</b>	<b>Number of participants</b>
	<b>Cotton</b>			
1	Field days	1	August	20
2	Farmers Training	1	June	25
3	Media coverage	1	April	
4	Training for extension functionaries	1		
	<b>Chikori</b>			
1	Field days	1	July	20
2	Farmers Training	1	May	25
3	Media coverage	1	May	
4	Training for extension functionaries	1		
	<b>Wheat</b>			
1	Field days	1	November	20
2	Farmers Training	1	October	25
3	Media coverage	1	October	
4	Training for extension functionaries	1		
	<b>Cumin/Ajwain</b>			
1	Field days	1	November	20
2	Farmers Training	1	October	25
3	Media coverage	1	October	
4	Training for extension functionaries	1		
	<b>Coriander</b>			
1	Field days	1	November	20
2	Farmers Training	1	October	25
3	Media coverage	1	October	
4	Training for extension functionaries	1		
	<b>Pearl Millet</b>			
1	Field days	1	March	20
2	Farmers Training	1	February	25
3	Media coverage	1	February	
4	Training for extension functionaries	1		
	<b>Chickpea</b>			
1	Field days	2	January	50
2	Farmers Training	1	November	25
3	Media coverage	1	November	
4	Training for extension functionaries	1	October	30
	<b>Groundnut</b>			
1	Field days	2	Sep	50
2	Farmers Training	2	July, August	50
3	Media coverage	1	August	
4	Training for extension functionaries	1	June	30
	<b>Sesamum</b>			
1	Field days	2	April, May	50
2	Farmers Training	1	Feb	25

3	Media coverage	1	Feb	
4	Training for extension functionaries	1	Jan	30
<b>Kitchen gardening</b>				
1	Field days	2	July, Sep	40
2	Farmers Training	1	June	30
3	Media coverage	1	May	
4	Training for extension functionaries			

### C. Details of FLD on Enterprises

#### a. Farm Implements

Name of the implement	Crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators

#### b. Livestock Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds/ha. etc.	Critical inputs	Performance parameters / indicators
Animal Husbandry	Gir	3	3	Bypass Fat	% of Fat increase Total Production increase

#### c. FLD on Other enterprises

Enterprise	Name of the technology demonstrated	No. of farmers	No. of units	Critical inputs	Performance parameters / indicators
Kitchen gardening	Nutritional gardening	50	50	Vegetable seeds	Yield
Okra Mittent	Vegetable mitten	5	5	Vegetable mitten	Picking efficiency, effect on skin,
Apron	Cotton picking apron	5	5	Apron	Picking efficiency

### 3.4 TRAINING (INCLUDING THE SPONSORED AND FLD TRAINING PROGRAMMES):

#### A. ON CAMPUS

Thematic Area	No. of Courses	No. of participant						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>								
<b>I Crop Production</b>								
Weed Management				0			0	0
Resource Conservation Technologies				0			0	0
Cropping Systems				0			0	0
Crop Diversification				0			0	0
Integrated Farming				0			0	0
Water management				0			0	0
Seed production	1	21	2	23	2		2	25
Nursery management				0			0	0
Integrated Crop Management	1	24	0	24	1	0	1	25
Fodder production				0			0	0
Production of organic inputs	1	24	0	24	1	0	1	25

Total	3	69	2	71	4	0	4	75
<b>II Horticulture</b>				0			0	0
<b>a) Vegetable Crops</b>				0			0	0
Production of low volume and high value crops				0			0	0
Off-season vegetables				0			0	0
Nursery raising				0			0	0
Exotic vegetables like Broccoli				0			0	0
Export potential vegetables				0			0	0
Grading and standardization				0			0	0
Protective cultivation (Green Houses, Shade Net etc.)				0			0	0
<b>b) Fruits</b>				0			0	0
Training and Pruning				0			0	0
Layout and Management of Orchards				0			0	0
Cultivation of Fruit				0			0	0
Management of young plants/orchards				0			0	0
Rejuvenation of old orchards				0			0	0
Export potential fruits				0			0	0
Micro irrigation systems of orchards				0			0	0
Plant propagation techniques				0			0	0
<b>c) Ornamental Plants</b>				0			0	0
Nursery Management				0			0	0
Management of potted plants				0			0	0
Export potential of ornamental plants				0			0	0
Propagation techniques of Ornamental Plants				0			0	0
<b>d) Plantation crops</b>				0			0	0
Production and Management technology				0			0	0
Processing and value addition				0			0	0
<b>e) Tuber crops</b>				0			0	0
Production and Management technology				0			0	0
Processing and value addition				0			0	0
<b>f) Spices</b>				0			0	0
Production and Management technology				0			0	0
Processing and value addition				0			0	0
<b>g) Medicinal and Aromatic Plants</b>				0			0	0
Nursery management				0			0	0
Production and management technology				0			0	0
Post harvest technology and value addition				0			0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>III Soil Health and Fertility Management</b>				0			0	0
Soil fertility management				0			0	0
Soil and Water Conservation				0			0	0
Integrated Nutrient Management				0			0	0
Production and use of organic inputs				0			0	0
Management of Problematic soils				0			0	0
Micro nutrient deficiency in crops	1	18	5	23	1	1	2	25
Nutrient Use Efficiency				0			0	0
Soil and Water Testing				0			0	0
<b>Total</b>	<b>1</b>	<b>18</b>	<b>5</b>	<b>23</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>25</b>
<b>IV Livestock Production and Management</b>				0			0	0

Dairy Management	1	0	20	20	0	10	10	30
Poultry Management				0			0	0
Piggery Management				0			0	0
Rabbit Management/goat				0			0	0
Disease Management				0			0	0
Feed management	1	25	0	25	5	0	5	30
Production of quality animal products				0			0	0
<b>Total</b>	<b>2</b>	<b>25</b>	<b>20</b>	<b>45</b>	<b>5</b>	<b>10</b>	<b>15</b>	<b>60</b>
<b>V Home Science/Women empowerment</b>				<b>0</b>			<b>0</b>	<b>0</b>
Household food security by kitchen gardening and nutrition gardening				0			0	0
Design and development of low/minimum cost diet				0			0	0
Designing and development for high nutrient efficiency diet				0			0	0
Minimization of nutrient loss in processing	1	0	19	19	0	6	6	25
Gender mainstreaming through SHGs				0			0	0
Storage loss minimization techniques				0			0	0
Value addition	1	0	25	25	0	0	0	25
Income generation activities for empowerment of rural Women	1	0	22	22	0	3	3	25
Location specific drudgery reduction technologies				0			0	0
Rural Crafts				0			0	0
Women and child care				0			0	0
<b>Total</b>	<b>3</b>	<b>0</b>	<b>66</b>	<b>66</b>	<b>0</b>	<b>9</b>	<b>9</b>	<b>75</b>
<b>VI Agril. Engineering</b>				<b>0</b>			<b>0</b>	<b>0</b>
Installation and maintenance of micro irrigation systems	1	25	0	25	0	0	0	25
Use of Plastics in farming practices				0			0	0
Production of small tools and implements				0			0	0
Repair and maintenance of farm machinery and implements				0			0	0
Small scale processing and value addition				0			0	0
Post Harvest Technology				0			0	0
<b>Total</b>	<b>1</b>	<b>25</b>	<b>0</b>	<b>25</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>25</b>
<b>VII Plant Protection</b>				<b>0</b>			<b>0</b>	<b>0</b>
Integrated Pest Management	1	22	0	22	3	0	3	25
Integrated Disease Management	1	25	0	25	0	0	0	25
Bio-control of pests and diseases	1	25	0	25			0	25
Production of bio control agents and bio pesticides				0			0	0
<b>Total</b>	<b>3</b>	<b>72</b>	<b>0</b>	<b>72</b>	<b>3</b>	<b>0</b>	<b>3</b>	<b>75</b>
<b>VIII Fisheries</b>				<b>0</b>			<b>0</b>	<b>0</b>
Integrated fish farming	1	0	0	0	0	30	30	30
Carp breeding and hatchery management				0			0	0
Carp fry and fingerling rearing				0			0	0
Composite fish culture				0			0	0
Hatchery management and culture of freshwater prawn				0			0	0
Breeding and culture of ornamental fishes				0			0	0
Portable plastic carp hatchery				0			0	0

Pen culture of fish and prawn				0			0	0
Shrimp farming	1	30	0	30			0	30
Edible oyster farming				0			0	0
Pearl culture				0			0	0
Fish processing and value addition				0			0	0
<b>Total</b>	<b>2</b>	<b>30</b>	<b>0</b>	<b>30</b>	<b>0</b>	<b>30</b>	<b>30</b>	<b>60</b>
<b>IX Production of Inputs at site</b>				0			0	0
Seed Production				0			0	0
Planting material production				0			0	0
Bio-agents production				0			0	0
Bio-pesticides production				0			0	0
Bio-fertilizer production				0			0	0
Vermi-compost production	1	23	0	23	2	0	2	25
Organic manures production				0			0	0
Production of fry and fingerlings				0			0	0
Production of Bee-colonies and wax sheets				0			0	0
Small tools and implements				0			0	0
Production of livestock feed and fodder				0			0	0
Production of Fish feed				0			0	0
<b>Total</b>	<b>1</b>	<b>23</b>	<b>0</b>	<b>23</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>25</b>
<b>X Capacity Building and Group Dynamics</b>				0			0	0
Leadership development				0			0	0
Group dynamics				0			0	0
Formation and Management of SHGs				0			0	0
Mobilization of social capital				0			0	0
Entrepreneurial development of farmers/youths				0			0	0
WTO and IPR issues				0			0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>XI Agro-forestry</b>				0			0	0
Production technologies				0			0	0
Nursery management				0			0	0
Integrated Farming Systems				0			0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>XII Others (Pl. Specify)</b>				0			0	0
<b>TOTAL</b>	<b>16</b>	<b>262</b>	<b>93</b>	<b>355</b>	<b>15</b>	<b>50</b>	<b>65</b>	<b>420</b>
<b>(B) RURAL YOUTH</b>				0			0	0
Mushroom Production				0			0	0
Bee-keeping				0			0	0
Integrated farming	1	16	0	16	9	0	9	25
Seed production				0			0	0
Production of organic inputs	1	20	0	20	5	0	5	25
Integrated Farming (Medicinal)				0			0	0
Planting material production				0			0	0
Vermi-culture				0			0	0
Sericulture				0			0	0
Protected cultivation of vegetable crops				0			0	0
Commercial fruit production				0			0	0
Repair and maintenance of farm machinery and implements				0			0	0
Nursery Management of Horticulture crops				0			0	0



Training and pruning of orchards				0			0	0
Value addition				0			0	0
Production of quality animal products				0			0	0
Dairying				0			0	0
Sheep and goat rearing				0			0	0
Quail farming				0			0	0
Piggery				0			0	0
Rabbit farming				0			0	0
Poultry production				0			0	0
Ornamental fisheries				0			0	0
Para vets				0			0	0
Para extension workers				0			0	0
Composite fish culture				0			0	0
Freshwater prawn culture				0			0	0
Shrimp farming				0			0	0
Pearl culture				0			0	0
Cold water fisheries				0			0	0
Fish harvest and processing technology				0			0	0
Fry and fingerling rearing				0			0	0
Small scale processing				0			0	0
Post Harvest Technology				0			0	0
Tailoring and Stitching				0			0	0
Rural Crafts				0			0	0
<b>TOTAL</b>	<b>2</b>	<b>36</b>	<b>0</b>	<b>36</b>	<b>14</b>	<b>0</b>	<b>14</b>	<b>50</b>
<b>(C) Extension Personnel</b>				<b>0</b>			<b>0</b>	<b>0</b>
Productivity enhancement in field crops	2	40	0	40	10	0	10	50
Integrated Pest Management				0			0	0
Integrated Nutrient management				0			0	0
Rejuvenation of old orchards				0			0	0
Protected cultivation technology				0			0	0
Formation and Management of SHGs				0			0	0
Group Dynamics and farmers organization				0			0	0
Information networking among farmers				0			0	0
Capacity building for ICT application				0			0	0
Care and maintenance of farm machinery and implements				0			0	0
WTO and IPR issues				0			0	0
Management in farm animals				0			0	0
Livestock feed and fodder production				0			0	0
Household food security				0			0	0
Women and Child care				0			0	0
Low cost and nutrient efficient diet designing				0			0	0
Production and use of organic inputs				0			0	0
Gender mainstreaming through SHGs				0			0	0
Any other (Pl. Specify)				0			0	0
<b>TOTAL</b>	<b>2</b>	<b>40</b>	<b>0</b>	<b>40</b>	<b>10</b>	<b>0</b>	<b>10</b>	<b>50</b>
<b>G. Total</b>	<b>20</b>	<b>338</b>	<b>93</b>	<b>431</b>	<b>39</b>	<b>50</b>	<b>89</b>	<b>520</b>

**B. OFF Campus**

Thematic Area	No. of	No. of participant
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	Courses	Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
<b>(A) Farmers &amp; Farm Women</b>								
<b>I Crop Production</b>								
Weed Management	2	41	9	50	3	2	5	55
Resource Conservation Technologies				0			0	0
Cropping Systems				0			0	0
Crop Diversification				0			0	0
Integrated Farming				0			0	0
Water management				0			0	0
Seed production				0			0	0
Nursery management				0			0	0
Integrated Crop Management	1	23	2	25	0	0	0	25
Fodder production				0			0	0
Production of organic inputs				0			0	0
<b>Total</b>	<b>3</b>	<b>64</b>	<b>11</b>	<b>75</b>	<b>3</b>	<b>2</b>	<b>5</b>	<b>80</b>
<b>II Horticulture</b>				0			0	0
<b>a) Vegetable Crops</b>				0			0	0
Production of low volume and high value crops				0			0	0
Off-season vegetables				0			0	0
Nursery raising				0			0	0
Exotic vegetables like Broccoli				0			0	0
Export potential vegetables				0			0	0
Grading and standardization				0			0	0
Protective cultivation (Green Houses, Shade Net etc.)				0			0	0
<b>b) Fruits</b>				0			0	0
Training and Pruning				0			0	0
Layout and Management of Orchards				0			0	0
Cultivation of Fruit				0			0	0
Management of young plants/orchards				0			0	0
Rejuvenation of old orchards				0			0	0
Export potential fruits				0			0	0
Micro irrigation systems of orchards				0			0	0
Plant propagation techniques				0			0	0
<b>c) Ornamental Plants</b>				0			0	0
Nursery Management				0			0	0
Management of potted plants				0			0	0
Export potential of ornamental plants				0			0	0
Propagation techniques of Ornamental Plants				0			0	0
<b>d) Plantation crops</b>				0			0	0
Production and Management technology				0			0	0
Processing and value addition				0			0	0
<b>e) Tuber crops</b>				0			0	0
Production and Management technology				0			0	0
Processing and value addition				0			0	0
<b>f) Spices</b>				0			0	0
Production and Management technology				0			0	0
Processing and value addition	1	0	25	25	0	0	0	25
<b>g) Medicinal and Aromatic Plants</b>				0			0	0

Nursery management				0			0	0
Production and management technology				0			0	0
Post harvest technology and value addition				0			0	0
<b>Total</b>	<b>1</b>	<b>0</b>	<b>25</b>	<b>25</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>25</b>
<b>III Soil Health and Fertility Management</b>				<b>0</b>			<b>0</b>	<b>0</b>
Soil fertility management				0			0	0
Soil and Water Conservation				0			0	0
Integrated Nutrient Management	2	41	13	54	1	0	1	55
Production and use of organic inputs	1	28		28	2		2	30
Management of Problematic soils				0			0	0
Micro nutrient deficiency in crops				0			0	0
Nutrient Use Efficiency				0			0	0
Soil and Water Testing	1	20	8	28	2	0	2	30
<b>Total</b>	<b>4</b>	<b>89</b>	<b>21</b>	<b>110</b>	<b>5</b>	<b>0</b>	<b>5</b>	<b>115</b>
<b>IV Livestock Production and Management</b>				<b>0</b>			<b>0</b>	<b>0</b>
Dairy Management	1	25	0	25	5	0	5	30
Poultry Management				0			0	0
Piggery Management				0			0	0
Rabbit Management/goat				0			0	0
Disease Management	1	25	0	25	0	0	0	25
Feed management	1	20	0	20	10	0	10	30
Production of quality animal products				0			0	0
<b>Total</b>	<b>3</b>	<b>70</b>	<b>0</b>	<b>70</b>	<b>15</b>	<b>0</b>	<b>15</b>	<b>85</b>
<b>V Home Science/Women empowerment</b>				<b>0</b>			<b>0</b>	<b>0</b>
Household food security by kitchen gardening and nutrition gardening	1	0	19	19	0	6	6	25
Design and development of low/minimum cost diet				0			0	0
Designing and development for high nutrient efficiency diet				0			0	0
Minimization of nutrient loss in processing				0			0	0
Gender mainstreaming through SHGs				0			0	0
Storage loss minimization techniques				0			0	0
Value addition	1	0	25	25	0	0	0	25
Income generation activities for empowerment of rural Women	1	0	20	20	0	5	5	25
Location specific drudgery reduction technologies	1	0	19	19	0	6	6	25
Rural Crafts				0			0	0
Women and child care	1	0	25	25	0	0	0	25
<b>Total</b>	<b>5</b>	<b>0</b>	<b>108</b>	<b>108</b>	<b>0</b>	<b>17</b>	<b>17</b>	<b>125</b>
<b>VI Agril. Engineering</b>				<b>0</b>			<b>0</b>	<b>0</b>
Installation and maintenance of micro irrigation systems				0			0	0
Use of Plastics in farming practices				0			0	0
Production of small tools and implements				0			0	0
Repair and maintenance of farm machinery and implements				0			0	0
Small scale processing and value addition				0			0	0
Post Harvest Technology				0			0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>VII Plant Protection</b>				<b>0</b>			<b>0</b>	<b>0</b>

Integrated Pest Management	3	65	0	65	10	0	10	75
Integrated Disease Management	2	40	0	40	10	0	10	50
Bio-control of pests and diseases	1	25	0	25	0	0	0	25
Production of bio control agents and bio pesticides				0			0	0
<b>Total</b>	<b>6</b>	<b>130</b>	<b>0</b>	<b>130</b>	<b>20</b>	<b>0</b>	<b>20</b>	<b>150</b>
<b>VIII Fisheries</b>				<b>0</b>			<b>0</b>	<b>0</b>
Integrated fish farming				0			0	0
Carp breeding and hatchery management				0			0	0
Carp fry and fingerling rearing	1	25	0	25			0	25
Composite fish culture	1	25		25			0	25
Hatchery management and culture of freshwater prawn				0			0	0
Breeding and culture of ornamental fishes				0			0	0
Portable plastic carp hatchery				0			0	0
Pen culture of fish and prawn				0			0	0
Shrimp farming				0			0	0
Edible oyster farming				0			0	0
Pearl culture	1	0	0	0	18	7	25	25
Fish processing and value addition				0			0	0
<b>Total</b>	<b>3</b>	<b>50</b>	<b>0</b>	<b>50</b>	<b>18</b>	<b>7</b>	<b>25</b>	<b>75</b>
<b>IX Production of Inputs at site</b>				<b>0</b>			<b>0</b>	<b>0</b>
Seed Production	1	22	0	22	3		3	25
Planting material production				0			0	0
Bio-agents production				0			0	0
Bio-pesticides production				0			0	0
Bio-fertilizer production				0			0	0
Vermi-compost production				0			0	0
Organic manures production				0			0	0
Production of fry and fingerlings				0			0	0
Production of Bee-colonies and wax sheets				0			0	0
Small tools and implements				0			0	0
Production of livestock feed and fodder				0			0	0
Production of Fish feed				0			0	0
<b>Total</b>	<b>1</b>	<b>22</b>	<b>0</b>	<b>22</b>	<b>3</b>	<b>0</b>	<b>3</b>	<b>25</b>
<b>X Capacity Building and Group Dynamics</b>				<b>0</b>			<b>0</b>	<b>0</b>
Leadership development				0			0	0
Group dynamics				0			0	0
Formation and Management of SHGs				0			0	0
Mobilization of social capital				0			0	0
Entrepreneurial development of farmers/youths				0			0	0
WTO and IPR issues				0			0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>XI Agro-forestry</b>				<b>0</b>			<b>0</b>	<b>0</b>
Production technologies				0			0	0
Nursery management				0			0	0
Integrated Farming Systems				0			0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>XII Others (Pl. Specify)</b>				<b>0</b>			<b>0</b>	<b>0</b>
<b>TOTAL</b>	<b>26</b>	<b>425</b>	<b>165</b>	<b>590</b>	<b>64</b>	<b>26</b>	<b>90</b>	<b>680</b>

<b>(B) RURAL YOUTH</b>				0			0	0
Mushroom Production				0			0	0
Bee-keeping				0			0	0
Integrated farming				0			0	0
Seed production				0			0	0
Production of organic inputs				0			0	0
Integrated Farming (Medicinal)				0			0	0
Planting material production				0			0	0
Vermi-culture				0			0	0
Sericulture				0			0	0
Protected cultivation of vegetable crops				0			0	0
Commercial fruit production				0			0	0
Repair and maintenance of farm machinery and implements				0			0	0
Nursery Management of Horticulture crops				0			0	0
Training and pruning of orchards				0			0	0
Value addition	1	0	19	19	0	6	6	25
Production of quality animal products				0			0	0
Dairying				0			0	0
Sheep and goat rearing				0			0	0
Quail farming				0			0	0
Piggery				0			0	0
Rabbit farming				0			0	0
Poultry production				0			0	0
Ornamental fisheries				0			0	0
Para vets				0			0	0
Para extension workers				0			0	0
Composite fish culture				0			0	0
Freshwater prawn culture				0			0	0
Shrimp farming				0			0	0
Pearl culture				0			0	0
Cold water fisheries				0			0	0
Fish harvest and processing technology				0			0	0
Fry and fingerling rearing				0			0	0
Small scale processing				0			0	0
Post Harvest Technology				0			0	0
Tailoring and Stitching				0			0	0
Rural Crafts				0			0	0
<b>TOTAL</b>	<b>1</b>	<b>0</b>	<b>19</b>	<b>19</b>	<b>0</b>	<b>6</b>	<b>6</b>	<b>25</b>
<b>(C) Extension Personnel</b>				0			0	0
Productivity enhancement in field crops				0			0	0
Integrated Pest Management				0			0	0
Integrated Nutrient management				0			0	0
Rejuvenation of old orchards				0			0	0
Protected cultivation technology				0			0	0
Formation and Management of SHGs				0			0	0
Group Dynamics and farmers organization				0			0	0
Information networking among farmers				0			0	0
Capacity building for ICT application				0			0	0
Care and maintenance of farm machinery and implements				0			0	0

WTO and IPR issues				0			0	0
Management in farm animals				0			0	0
Livestock feed and fodder production				0			0	0
Household food security				0			0	0
Women and Child care				0			0	0
Low cost and nutrient efficient diet designing				0			0	0
Production and use of organic inputs				0			0	0
Gender mainstreaming through SHGs				0			0	0
Any other (Pl. Specify)				0			0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>G. Total</b>	<b>27</b>	<b>425</b>	<b>184</b>	<b>609</b>	<b>64</b>	<b>32</b>	<b>96</b>	<b>705</b>

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

Thematic Area	No. of Courses	No. of participant						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	2	41	9	50	3	2	5	55
Resource Conservation Technologies	0	0	0	0	0	0	0	0
Cropping Systems	0	0	0	0	0	0	0	0
Crop Diversification	0	0	0	0	0	0	0	0
Integrated Farming	0	0	0	0	0	0	0	0
Water management	0	0	0	0	0	0	0	0
Seed production	1	21	2	23	2	0	2	25
Nursery management	0	0	0	0	0	0	0	0
Integrated Crop Management	2	47	2	49	1	0	1	50
Fodder production	0	0	0	0	0	0	0	0
Production of organic inputs	1	24	0	24	1	0	1	25
<b>Total</b>	<b>6</b>	<b>133</b>	<b>13</b>	<b>146</b>	<b>7</b>	<b>2</b>	<b>9</b>	<b>155</b>
<b>II Horticulture</b>				<b>0</b>			<b>0</b>	<b>0</b>
<b>a) Vegetable Crops</b>				<b>0</b>			<b>0</b>	<b>0</b>
Production of low volume and high value crops	0	0	0	0	0	0	0	0
Off-season vegetables	0	0	0	0	0	0	0	0
Nursery raising	0	0	0	0	0	0	0	0
Exotic vegetables like Broccoli	0	0	0	0	0	0	0	0
Export potential vegetables	0	0	0	0	0	0	0	0
Grading and standardization	0	0	0	0	0	0	0	0
Protective cultivation (Green Houses, Shade Net etc.)	0	0	0	0	0	0	0	0
<b>b) Fruits</b>	0	0	0	<b>0</b>	0	0	<b>0</b>	<b>0</b>
Training and Pruning	0	0	0	0	0	0	0	0
Layout and Management of Orchards	0	0	0	0	0	0	0	0
Cultivation of Fruit	0	0	0	0	0	0	0	0
Management of young plants/orchards	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	0	0	0	0	0	0	0	0
Export potential fruits	0	0	0	0	0	0	0	0
Micro irrigation systems of orchards	0	0	0	0	0	0	0	0
Plant propagation techniques	0	0	0	0	0	0	0	0
<b>c) Ornamental Plants</b>	0	0	0	<b>0</b>	0	0	<b>0</b>	<b>0</b>
Nursery Management	0	0	0	0	0	0	0	0
Management of potted plants	0	0	0	0	0	0	0	0

Export potential of ornamental plants	0	0	0	0	0	0	0	0
Propagation techniques of Ornamental Plants	0	0	0	0	0	0	0	0
<b>d) Plantation crops</b>	0	0	0	0	0	0	0	0
Production and Management technology	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0
<b>e) Tuber crops</b>	0	0	0	0	0	0	0	0
Production and Management technology	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0
<b>f) Spices</b>	0	0	0	0	0	0	0	0
Production and Management technology	0	0	0	0	0	0	0	0
Processing and value addition	1	0	25	25	0	0	0	25
<b>g) Medicinal and Aromatic Plants</b>	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0
Production and management technology	0	0	0	0	0	0	0	0
Post harvest technology and value addition	0	0	0	0	0	0	0	0
<b>Total</b>	<b>1</b>	<b>0</b>	<b>25</b>	<b>25</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>25</b>
<b>III Soil Health and Fertility Management</b>				<b>0</b>			<b>0</b>	<b>0</b>
Soil fertility management	0	0	0	0	0	0	0	0
Soil and Water Conservation	0	0	0	0	0	0	0	0
Integrated Nutrient Management	2	41	13	54	1	0	1	55
Production and use of organic inputs	1	28	0	28	2	0	2	30
Management of Problematic soils	0	0	0	0	0	0	0	0
Micro nutrient deficiency in crops	1	18	5	23	1	1	2	25
Nutrient Use Efficiency	0	0	0	0	0	0	0	0
Soil and Water Testing	1	20	8	28	2	0	2	30
<b>Total</b>	<b>5</b>	<b>107</b>	<b>26</b>	<b>133</b>	<b>6</b>	<b>1</b>	<b>7</b>	<b>140</b>
<b>IV Livestock Production and Management</b>				<b>0</b>			<b>0</b>	<b>0</b>
Dairy Management	2	25	20	45	5	10	15	60
Poultry Management	0	0	0	0	0	0	0	0
Piggery Management	0	0	0	0	0	0	0	0
Rabbit Management/goat	0	0	0	0	0	0	0	0
Disease Management	1	25	0	25	0	0	0	25
Feed management	2	45	0	45	15	0	15	60
Production of quality animal products	0	0	0	0	0	0	0	0
<b>Total</b>	<b>5</b>	<b>95</b>	<b>20</b>	<b>115</b>	<b>20</b>	<b>10</b>	<b>30</b>	<b>145</b>
<b>V Home Science/Women empowerment</b>				<b>0</b>			<b>0</b>	<b>0</b>
Household food security by kitchen gardening and nutrition gardening	1	0	19	19	0	6	6	25
Design and development of low/minimum cost diet	0	0	0	0	0	0	0	0
Designing and development for high nutrient efficiency diet	0	0	0	0	0	0	0	0
Minimization of nutrient loss in processing	1	0	19	19	0	6	6	25
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0
Storage loss minimization techniques	0	0	0	0	0	0	0	0
Value addition	2	0	50	50	0	0	0	50
Income generation activities for empowerment of rural Women	2	0	42	42	0	8	8	50
Location specific drudgery reduction technologies	1	0	19	19	0	6	6	25
Rural Crafts	0	0	0	0	0	0	0	0
Women and child care	1	0	25	25	0	0	0	25

<b>Total</b>	<b>8</b>	<b>0</b>	<b>174</b>	<b>174</b>	<b>0</b>	<b>26</b>	<b>26</b>	<b>200</b>
<b>VI Agril. Engineering</b>				<b>0</b>			<b>0</b>	<b>0</b>
Installation and maintenance of micro irrigation systems	1	25	0	25	0	0	0	25
Use of Plastics in farming practices	0	0	0	0	0	0	0	0
Production of small tools and implements	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0
Small scale processing and value addition	0	0	0	0	0	0	0	0
Post Harvest Technology	0	0	0	0	0	0	0	0
<b>Total</b>	<b>1</b>	<b>25</b>	<b>0</b>	<b>25</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>25</b>
<b>VII Plant Protection</b>				<b>0</b>			<b>0</b>	<b>0</b>
Integrated Pest Management	4	87	0	87	13	0	13	100
Integrated Disease Management	3	65	0	65	10	0	10	75
Bio-control of pests and diseases	2	50	0	50	0	0	0	50
Production of bio control agents and bio pesticides	0	0	0	0	0	0	0	0
<b>Total</b>	<b>9</b>	<b>202</b>	<b>0</b>	<b>202</b>	<b>23</b>	<b>0</b>	<b>23</b>	<b>225</b>
<b>VIII Fisheries</b>				<b>0</b>			<b>0</b>	<b>0</b>
Integrated fish farming	1	0	0	0	0	30	30	30
Carp breeding and hatchery management	0	0	0	0	0	0	0	0
Carp fry and fingerling rearing	1	25	0	25	0	0	0	25
Composite fish culture	1	25	0	25	0	0	0	25
Hatchery management and culture of freshwater prawn	0	0	0	0	0	0	0	0
Breeding and culture of ornamental fishes	0	0	0	0	0	0	0	0
Portable plastic carp hatchery	0	0	0	0	0	0	0	0
Pen culture of fish and prawn	0	0	0	0	0	0	0	0
Shrimp farming	1	30	0	30	0	0	0	30
Edible oyster farming	0	0	0	0	0	0	0	0
Pearl culture	1	0	0	0	18	7	25	25
Fish processing and value addition	0	0	0	0	0	0	0	0
<b>Total</b>	<b>5</b>	<b>80</b>	<b>0</b>	<b>80</b>	<b>18</b>	<b>37</b>	<b>55</b>	<b>135</b>
<b>IX Production of Inputs at site</b>				<b>0</b>			<b>0</b>	<b>0</b>
Seed Production	1	22	0	22	3	0	3	25
Planting material production	0	0	0	0	0	0	0	0
Bio-agents production	0	0	0	0	0	0	0	0
Bio-pesticides production	0	0	0	0	0	0	0	0
Bio-fertilizer production	0	0	0	0	0	0	0	0
Vermi-compost production	1	23	0	23	2	0	2	25
Organic manures production	0	0	0	0	0	0	0	0
Production of fry and fingerlings	0	0	0	0	0	0	0	0
Production of Bee-colonies and wax sheets	0	0	0	0	0	0	0	0
Small tools and implements	0	0	0	0	0	0	0	0
Production of livestock feed and fodder	0	0	0	0	0	0	0	0
Production of Fish feed	0	0	0	0	0	0	0	0
<b>Total</b>	<b>2</b>	<b>45</b>	<b>0</b>	<b>45</b>	<b>5</b>	<b>0</b>	<b>5</b>	<b>50</b>
<b>X Capacity Building and Group Dynamics</b>				<b>0</b>			<b>0</b>	<b>0</b>
Leadership development	0	0	0	0	0	0	0	0
Group dynamics	0	0	0	0	0	0	0	0
Formation and Management of SHGs	0	0	0	0	0	0	0	0
Mobilization of social capital	0	0	0	0	0	0	0	0



Entrepreneurial development of farmers/youths	0	0	0	0	0	0	0	0
WTO and IPR issues	0	0	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>XI Agro-forestry</b>				0			0	0
Production technologies	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0
Integrated Farming Systems	0	0	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>XII Others (Pl. Specify)</b>				0			0	0
<b>TOTAL</b>	<b>42</b>	<b>687</b>	<b>258</b>	<b>945</b>	<b>79</b>	<b>76</b>	<b>155</b>	<b>1100</b>
<b>(B) RURAL YOUTH</b>				0			0	0
Mushroom Production	0	0	0	0	0	0	0	0
Bee-keeping	0	0	0	0	0	0	0	0
Integrated farming	1	16	0	16	9	0	9	25
Seed production	0	0	0	0	0	0	0	0
Production of organic inputs	1	20	0	20	5	0	5	25
Integrated Farming (Medicinal)	0	0	0	0	0	0	0	0
Planting material production	0	0	0	0	0	0	0	0
Vermi-culture	0	0	0	0	0	0	0	0
Sericulture	0	0	0	0	0	0	0	0
Protected cultivation of vegetable crops	0	0	0	0	0	0	0	0
Commercial fruit production	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0
Nursery Management of Horticulture crops	0	0	0	0	0	0	0	0
Training and pruning of orchards	0	0	0	0	0	0	0	0
Value addition	1	0	19	19	0	6	6	25
Production of quality animal products	0	0	0	0	0	0	0	0
Dairying	0	0	0	0	0	0	0	0
Sheep and goat rearing	0	0	0	0	0	0	0	0
Quail farming	0	0	0	0	0	0	0	0
Piggery	0	0	0	0	0	0	0	0
Rabbit farming	0	0	0	0	0	0	0	0
Poultry production	0	0	0	0	0	0	0	0
Ornamental fisheries	0	0	0	0	0	0	0	0
Para vets	0	0	0	0	0	0	0	0
Para extension workers	0	0	0	0	0	0	0	0
Composite fish culture	0	0	0	0	0	0	0	0
Freshwater prawn culture	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0
Cold water fisheries	0	0	0	0	0	0	0	0
Fish harvest and processing technology	0	0	0	0	0	0	0	0
Fry and fingerling rearing	0	0	0	0	0	0	0	0
Small scale processing	0	0	0	0	0	0	0	0
Post Harvest Technology	0	0	0	0	0	0	0	0
Tailoring and Stitching	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>3</b>	<b>36</b>	<b>19</b>	<b>55</b>	<b>14</b>	<b>6</b>	<b>20</b>	<b>75</b>
<b>(C) Extension Personnel</b>				0			0	0
Productivity enhancement in field crops	2	40	0	40	10	0	10	50

Integrated Pest Management	0	0	0	0	0	0	0	0
Integrated Nutrient management	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	0	0	0	0	0	0	0	0
Protected cultivation technology	0	0	0	0	0	0	0	0
Formation and Management of SHGs	0	0	0	0	0	0	0	0
Group Dynamics and farmers organization	0	0	0	0	0	0	0	0
Information networking among farmers	0	0	0	0	0	0	0	0
Capacity building for ICT application	0	0	0	0	0	0	0	0
Care and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0
WTO and IPR issues	0	0	0	0	0	0	0	0
Management in farm animals	0	0	0	0	0	0	0	0
Livestock feed and fodder production	0	0	0	0	0	0	0	0
Household food security	0	0	0	0	0	0	0	0
Women and Child care	0	0	0	0	0	0	0	0
Low cost and nutrient efficient diet designing	0	0	0	0	0	0	0	0
Production and use of organic inputs	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0
Any other (Pl. Specify)	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>2</b>	<b>40</b>	<b>0</b>	<b>40</b>	<b>10</b>	<b>0</b>	<b>10</b>	<b>50</b>
<b>G. Total</b>	<b>47</b>	<b>763</b>	<b>277</b>	<b>1040</b>	<b>103</b>	<b>82</b>	<b>185</b>	<b>1225</b>

### Summary of Training Programme ON Campus

(A) Farmers & Farm Women	No. of courses	No. of participant						Grand Total
		others			SC/ST			
		Male	Female	Total	Male	Female	Total	
I Crop Production	3	69	2	71	4	0	4	75
II Horticulture	0	0	0	0	0	0	0	0
III Soil Health and Fertility Management	1	18	5	23	1	1	2	25
IV Livestock Production and Management	2	25	20	45	5	10	15	60
V Home Science/Women empowerment	3	0	66	66	0	9	9	75
VI Agril. Engineering	1	25	0	25	0	0	0	25
VII Plant Protection	3	72	0	72	3	0	3	75
VIII Fisheries	2	30	0	30	0	30	30	60
IX Production of Inputs at site	1	23	0	23	2	0	2	25
X Capacity Building and Group Dynamics	0	0	0	0	0	0	0	0
XI Agro-forestry	0	0	0	0	0	0	0	0
XII Others (Pl. Specify)	0	0	0	0	0	0	0	0
<b>Total (A)</b>	<b>16</b>	<b>262</b>	<b>93</b>	<b>355</b>	<b>15</b>	<b>50</b>	<b>65</b>	<b>420</b>
<b>(B) RURAL YOUTH</b>	<b>2</b>	<b>36</b>	<b>0</b>	<b>36</b>	<b>14</b>	<b>0</b>	<b>14</b>	<b>50</b>
<b>(C) Extension Personnel</b>	<b>2</b>	<b>40</b>	<b>0</b>	<b>40</b>	<b>10</b>	<b>0</b>	<b>10</b>	<b>50</b>
<b>Grand Total (A+B+C)</b>	<b>20</b>	<b>338</b>	<b>93</b>	<b>431</b>	<b>39</b>	<b>50</b>	<b>89</b>	<b>520</b>

### Off Campus

(A) Farmers & Farm Women	No. of courses	No. of participant						Grand Total
		others			SC/ST			
		Male	Female	Total	Male	Female	Total	
I Crop Production	3	64	11	75	3	2	5	80
II Horticulture	1	0	25	25	0	0	0	25
III Soil Health and Fertility Management	4	89	21	110	5	0	5	115
IV Livestock Production and Management	3	70	0	70	15	0	15	85
V Home Science/Women empowerment	5	0	108	108	0	17	17	125

VI Agril. Engineering	0	0	0	0	0	0	0	0
VII Plant Protection	6	130	0	130	20	0	20	150
VIII Fisheries	3	50	0	50	18	7	25	75
IX Production of Inputs at site	1	22	0	22	3	0	3	25
X Capacity Building and Group Dynamics	0	0	0	0	0	0	0	0
XI Agro-forestry	0	0	0	0	0	0	0	0
XII Others (Pl. Specify)	0	0	0	0	0	0	0	0
<b>Total (A)</b>	<b>26</b>	<b>425</b>	<b>165</b>	<b>590</b>	<b>64</b>	<b>26</b>	<b>90</b>	<b>680</b>
<b>(B) RURAL YOUTH</b>	<b>1</b>	<b>0</b>	<b>19</b>	<b>19</b>	<b>0</b>	<b>6</b>	<b>6</b>	<b>25</b>
<b>(C) Extension Personnel</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Grand Total (A+B+C)</b>	<b>27</b>	<b>425</b>	<b>184</b>	<b>609</b>	<b>64</b>	<b>32</b>	<b>96</b>	<b>705</b>

**Consolidated (On + Off Campus)**

(A) Farmers & Farm Women	No. of courses	No. of participant						Grand Total
		others			SC/ST			
		Male	Female	Total	Male	Female	Total	
I Crop Production	6	133	13	146	7	2	9	155
II Horticulture	1	0	25	25	0	0	0	25
III Soil Health and Fertility Management	5	107	26	133	6	1	7	140
IV Livestock Production and Management	5	95	20	115	20	10	30	145
V Home Science/Women empowerment	8	0	174	174	0	26	26	200
VI Agril. Engineering	1	25	0	25	0	0	0	25
VII Plant Protection	9	202	0	202	23	0	23	225
VIII Fisheries	5	80	0	80	18	37	55	135
IX Production of Inputs at site	2	45	0	45	5	0	5	50
X Capacity Building and Group Dynamics	0	0	0	0	0	0	0	0
XI Agro-forestry	0	0	0	0	0	0	0	0
XII Others (Pl. Specify)	0	0	0	0	0	0	0	0
<b>Total (A)</b>	<b>42</b>	<b>687</b>	<b>258</b>	<b>945</b>	<b>79</b>	<b>76</b>	<b>155</b>	<b>1100</b>
<b>(B) RURAL YOUTH</b>	<b>3</b>	<b>36</b>	<b>19</b>	<b>55</b>	<b>14</b>	<b>6</b>	<b>20</b>	<b>75</b>
<b>(C) Extension Personnel</b>	<b>2</b>	<b>40</b>	<b>0</b>	<b>40</b>	<b>10</b>	<b>0</b>	<b>10</b>	<b>50</b>
<b>Grand Total (A+B+C)</b>	<b>47</b>	<b>763</b>	<b>277</b>	<b>1040</b>	<b>103</b>	<b>82</b>	<b>185</b>	<b>1225</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	12	210	35	245	65	50	115	275	85	360
Kisan Mela	1	1200	250	1450	200	50	250	1400	300	1700
Kisan Ghosthi	10	300	125	425	200	100	300	500	225	725
Exhibition	5	4000	1000	5000	2000	800	2800	6000	1800	7800
Film Show	50	1500	400	1900	900	300	1200	2400	700	3100
Method demonstration	2	20	10	30	10	50	60	30	60	90
Farmers Seminar	5	250	40	290	80	10	90	330	50	380
Workshop	1	200	100	300	100	80	180	300	180	480
Group meetings	12	120	30	150	50	30	80	170	60	230
Lectures delivered as resource persons	55	8000	1500	9500	3000	1000	4000	11000	2500	13500
Newspaper coverage	5	0	0	0	0	0	0	0	0	0
Radio talks	1	0	0	0	0	0	0	0	0	0

TV talks	1	0	0	0	0	0	0	0	0	0
Popular articles	3	0	20	20	0	20	20	0	40	40
Extension Literature	7	2500	200	2700	1200	100	1300	3700	300	4000
<b>Advisory Services</b>	10	100	10	110	50	10	60	150	20	170
Scientific visit to farmers field	50	200	20	220	60	5	65	260	25	285
Farmers visit to KVK	80	300	20	320	40	10	50	340	30	370
Diagnostic visits	32	30	5	35	5	2	7	35	7	42
Exposure visits	2	30	0	30	10	0	10	40	0	40
Ex-trainees Sammelan	3	20	5	25	4	1	5	24	6	30
Soil health Camp	3	100	20	120	30	20	50	130	40	170
Animal Health Camp	3	50	10	60	20	5	25	70	15	85
Agri mobile clinic	30	3000	100	3100	1000	100	1100	4000	200	4200
Soil test campaigns	2	110	10	120	40	10	50	150	20	170
Farm Science Club Conveners meet	3	100	10	110	40	10	50	140	20	160
Self Help Group Conveners meetings	3	40	20	60	20	20	40	60	40	100
MahilaMandals Conveners meetings	6	10	50	60	10	40	50	20	90	110
Celebration of important days (specify)	3	150	40	190	60	30	90	210	70	280
KrishiMohostva	5	0	20	20	0	20	20	0	40	40
KrishiRath	3	40	0	40	20	0	20	60	0	60
Pre Kharif workshop	3	80	0	80	30	0	30	110	0	110
Pre Rabi workshop	7	250	40	290	100	30	130	350	70	420
PPVFRA workshop	1	20	10	30	10	5	15	30	15	45
Any Other (Specify)	5	220	20	240	90	10	100	310	30	340
<b>Total</b>	<b>424</b>	<b>23150</b>	<b>4120</b>	<b>27270</b>	<b>9444</b>	<b>2918</b>	<b>12362</b>	<b>32594</b>	<b>7038</b>	<b>39632</b>

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

#### SEED MATERIALS

Sl. No.	Crop	Variety	Quantity (qtl.)
<b>CEREALS</b>	Wheat	GW-496	150
<b>OILSEEDS</b>	Groundnut	GJG-9	96
	Sesame	G.Til.-3	12
<b>PULSES</b>	Green gram	GM-4	6
<b>VEGETABLES</b>			
<b>OTHERS (Specify)</b>			

#### PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
<b>FRUITS</b>			
<b>SPICES</b>			
<b>VEGETABLES</b>	Brinjal	GJLB-3,4	500
<b>FOREST SPECIES</b>			
<b>ORNAMENTAL CROPS</b>			

		<b>Total</b>	<b>500</b>
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**Bio-products**

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
<b>BIO PESTICIDES</b>				
1	Beauveria			5000
2	Trichoderma			5000
3	PSB		200	
4	Azaobactor		200	
5	Rhizobium		200	
6	Pheromone trap			
7	NPV			

**LIVESTOCK**

Sl. No.	Type	Breed	Quantity	
			(Nos)	Unit
Cattle				
GOAT				
SHEEP				
POULTRY				
Pig farming				
FISHERIES	Advance Fingerlings	IMC	500	

**4 Literature to be Developed/Published****A. KVK News Letter**

Date of start : 01/01/2016  
 Number of copies to be published : e-publication

**B. Literature developed/published**

S.No.	Topic	Number
1	Research paper each scientist	1
2	Technical reports	6
3	News letters	4
4	Training manual all discipline	4
5	Popular article	6
6	Extension literature	5
<b>Total</b>		<b>26</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. -**

- a. Brief introduction
- b. Interventions
- c. Output
- d. Outcomes
- e. Impact) Social economic, ii) Bio-Physical

## f. Good Action Photographs

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

- a) Focused group discussion with the farmers
- b) Field visits
- c) Identifying general trends in the area

### Rural Youth

- a) Filling up research based questionnaires
- b) Identification of leader and role of rural youth in agriculture (Sociometric method)
- c) Engagement of rural youth in agriculture

### In-service personnel

- a) Knowledge test (Interview schedule)
- b) Interaction with the personnel
- c) b) Functional areas of personnel

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

#### For OFT :

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

#### For FLD :

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

### 5.3 Field activities

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

### 5.4 Activities of Soil and Water Testing Laboratory

#### Status of establishment of Lab:

1. Year of establishment :2005-06
2. List of equipments purchase with amount

Sl. No	Name of the Equipment	Qty.	Cost	Remarks
1	Spectrophotometer	1	89160	Not working
2	Flame photometer	1		Not working
3	Physical balance	1	10640	Not working
4	Chemical balance	1	100000	Not working
5	Water distillation still	1	96118	Not working
6	Kjeldahl digestion and distillation	1	49644	Not working

7	Shaker	1	80080	Working
8	Grinder	1	16772	Working
9	Refrigerator	1		Working
10	Oven	1	30550	Working
11	Hot plate	1		Working
Total		11	472964	

### 3. Targets of samples for analysis:

Details	No. of Samples	No. of Farmers	No. of Villages	Amount to be realized
Soil Samples	500	500	15	
Water	50	50	12	
Plant				
<b>Total</b>	<b>550</b>	<b>550</b>	<b>27</b>	

## 6. LINKAGE

### 6.1 Functional linkage with different organizations

Sr.	Name of organization	Nature of linkage
<b>A</b>	<b>State corporation and state deptt.</b>	
1	District Agricultural Officer, Deptt. of Agriculture, District Panchayat, Jamnagar	<ul style="list-style-type: none"> <li>➤ Joint diagnostic team visit at farmers field</li> <li>➤ Organizing collaborative training to farmers</li> <li>➤ For collaborative off campus training</li> <li>➤ For collaborative training and demonstration Programme</li> <li>➤ Collaborative on campus training programme</li> <li>➤ For providing hostelfacilities to participants and organizing collaborative Mahila Krishi Mela</li> </ul>
2	District Rural Development Agency, Jamnagar	
3	Deputy Director of Veterinary, Department of veterinary & Animal Husbandry, Jamnagar	
4	Deputy Director of Horticulture, Jamnagar	
5	Deputy Director of Agriculture (Training), Farmer Training Centre, Jamnagar	
6	Deputy Director of Agriculture (Extension), Jamnagar	
7	Asstt. Director of Fisheries, Jamnagar	
8	Range Forest Officer, Jamnagar	
9	Asstt. Director of GLDC, Jamnagar	
10	Estate Engineer, Department of Irrigation, Jamnagar	
11	All Taluka Development Officers, and their team at Taluka level	
12	Rajkot-Jamnagar Gramin Bank, Jamnagar	
13	Project Director, ATMA, Jamnagar	
14	Project Director, DWDU, Jamnagar	
<b>B</b>	<b>Private Corporation</b>	
1	Territory Manager, GSFC, Jamnagar	<ul style="list-style-type: none"> <li>➤ Impart training on Agril. aspects</li> <li>➤ Collaborative on/off campus training programme</li> <li>➤ Sponsor training programme</li> </ul>
2	Territory Manager, GNFC, Jamnagar	
3	Territory Manager, IFFCO, Jamnagar	
4	Reliance Industries, Dept. of Green Belt, Jamnagar	
<b>C</b>	<b>NGOs</b>	
1	Murlidhar Trust, Opp. Trajitpara Branch School, Bhanvad	<ul style="list-style-type: none"> <li>➤ Impart training on Agril. aspects</li> <li>➤ Collaborative on/off campus training programme</li> </ul>
2	V.D.R.F. Trust, Momai Xerox, B.P. Road, Bhanvad	
3	Late J.V. Nariya Educational and Charitable Trust, 49, Modern Market, First Floor, Nr. Amber Cinema	
4	Jay Ashapura Charitable Society, Madhav Nivas, Karmachari Society, Trikonban, Dhrol (Dist.-Jamnagar)	
5	Shekhpat Jalstrav Vikas Mandal, At.-Shekhpat, Post-Aliyabada, Ta.&Dist.-Jamnagar	
6	Lakhtar Jalstrav Gram Vikas Trust, 55, Shiv Complex, At.- Bhadra (Patiya), Ta.-Jodia, Dist.- Jamnagar	
7	Umiya Mataji Mandir Trust, At.- Sidsar, Ta.-Jamjodhpur, Dist.-Jamnagar	

8	Shardapith Education Trust, 104-Shrusti complex, Nr. Gurudwara, Jamnagar	
9	Chachara Education & Charitable Trust, 104- Shrusti complex, Nr. Gurudwara, Jamnagar	
10	Tata Chemical Society for Rural Development Foundation, At. Mithapur, Ta.- Dwarka, Dist.-Jamnagar	
11	Agakhan Rural Development Trust	
12	ANARDE foundation trust	

## 6.2 Details of linkage with ATMA

a) Is ATMA implemented in your district (Yes/No) :- Yes

S. No.	Programme	Nature of linkage	Remarks
1	District Level Training	Impart Training on Agricultural Aspects	Celebrate Technology week Arrangement of KrishiMela
2.	Block level training	Lecture delivered	
3.	Village level training		

## 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	ERNET	2008	Not connected and not in working condition
2	JAU Website	2006	Continuous updated
3	ICAR Website	2017	Entry of all activity on web portal
4	Facebook page		Activities carried out by KVK
5	M-kishan portal		SMS to Farmers in vernacular language

## 6.4 Give details of programmes implemented under National Horticultural Mission

S. No.	Programme	Nature of linkage	Constraints if any
1	-	-	District is not involve in NHM

## 6.5 Nature of linkage with National Fisheries Development Board

S. No.	Programme	Nature of linkage	Remarks
1.	-	-	-

## 6.6 Additional Activities Planned including sponsored projects (ProCRA / Pro SOIL/NARI/DAESI/DAMU/DFI, etc.) / schemes during 2019-20, 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				S. H. Lakhani

\* The financial sanction is given but not release the fund till date for establishment of DAMU

## 7.0 Convergence with departments :

Sr.	Name of organization	Nature of linkage
	<ol style="list-style-type: none"> <li>1. ATMA</li> <li>2. DWDU</li> <li>3. DAO</li> <li>4. DRDA</li> <li>5. GGRC</li> <li>6. NABARD</li> <li>7. SPICE BOARD</li> <li>8. STATE HORTICULTURE</li> <li>9. CENTRAL WEREHOUSE</li> </ol>	<ul style="list-style-type: none"> <li>➤ Organizing collaborative training to farmers</li> <li>➤ For collaborative off campus training</li> <li>➤ For collaborative training and demonstration Programme</li> <li>➤ Collaborative on campus training programme</li> <li>➤ For providing hostel facilities to participants and organizing collaborative Mahila KrishiMela</li> <li>➤ Celebrating important days and programmes by central government as well as state government</li> </ul>



10. TATA CHEMICAL	➤ Field visit to gather
11. ENARDE Foundation	➤ Diagnostic visit on farmers field with line department

### 8. Innovator Farmer's Meet 2019- 2020

Sl.No.	Particulars	Details
1	Are you planning for conducting Farm Innovators meet in your district?	Yes/ No
2	If Yes likely month of the meet	September
3	Brief action plan in this regard	Organic farm innovators & pomegranate cultivator of this area will be invite for the meet.

### 9. Farmers Field School (FFS) planned 2019-2020

S. No	Thematic area	Title of the FFS	Budget proposed in Rs.
1	Nil	Nil	Nil

### 10. Technical feedback

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

- Demonstrated new variety
- Introduction of newer crop by KVK through different FLD as well as OFT
- Information of any crop diversification get from KVK
- Frequently visit to farmers
- Telephonic information is available 24 hours through scientist mobile

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

- Grant for the contingency for handling different programmes is sufficient
- Limit of food provision during training and other cost should be increase along with stipend and transportation facility (Approximately Rs. 500 to 1000 per head per training required)
- Timely release of grant for successful and perfect conducting of FLD and OFT
- Required new vehicle for field visit and other extension programme. It is also required minimum two vehicle in KVK due to work load and it is among farmers field
- Contingency grant is sufficient (It should be minimum 30 lakhs per KVK)
- Provide grant for farm protection wall and other infrastructure facilities

#### 11. Utilization of hostel facilities

S. No.	Programme	No. of days
1	As per requirement	
2		
	<b>Total</b>	

### 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	Crop Cafeteria	Every year	0.5	-	-	-	100000	-	
2	Vermicompost	2008	0.1	-	-	-	50000	70000	
3	Animal unit	2007	-	Gir	-	-	50000	61200	
4	Fisheries	2008	0.06	IMC	120	Kg.	1000	3600	

**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>							
Wheat	3	GW-496	Truthful	150	180000	300000	
<b>Pulses</b>							
Green gram	1	GM-4	Truthful	6	28000	54000	
<b>Oilseeds</b>							
Groundnut	8	GJG-9	Breeder	96	380000	1200000	
Sesame	2	G.Til.-3	Breeder	12	50000	180000	
<b>Fibers</b>							
<b>Spices &amp; Plantation crops</b>							
<b>Floriculture</b>							
<b>Fruits</b>							
<b>Vegetables</b>							
<b>Others (specify)</b>							

**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	Nil	-	-	-	As per the requirement

**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	Gir	Milk	1600 lit	40000	51200	
			FYM	3 ton		10000	

## TRAINING PROGRAMMES

## 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>										
Quarter-1 <sup>st</sup>	PF	Doubling Farmers income through scientific production technology of major kharif crops	4	24	0	24	1	0	1	25
Quarter-1 <sup>st</sup>	PF	Groundnut seed production Technology for doubling farmers income	2	21	2	23	2	0	2	25
Quarter-3 <sup>rd</sup>	PF	Organic Farming: A Step towards doubling farmers income	4	24	0	24	1	0	1	25
<b>Livestock prod.</b>										
Quarter-1 <sup>st</sup>	PF	Feed and Fodder Management in Animal Husbandry	3	25	0	25	5	0	5	30
Quarter-2 <sup>nd</sup>	PF	Additional income generation through Animal Husbandry by higher milk production by improving Breed and Nutrition & Feed Management	4	0	20	20	0	10	10	30
<b>Agril. Engg.</b>										
Quarter-2 <sup>nd</sup>	PF	Water management through micro irrigation system in kharif crops doubling the farmes income	2	25	0	25	0	0	0	25
<b>Home Sc.</b>										
Quarter-1 <sup>st</sup>	PF	Income generation activities for empowerment of rural Women for doubling the faremrs income	1	0	22	22	0	3	3	25
Quarter-2 <sup>nd</sup>	PF	Value addition in fruits, vegetables and agriculture produce for doubling the faremrs income	4	0	25	25	0	0	0	25
Quarter-3 <sup>rd</sup>	PF	Importance of nutrition in daily diet and techniques of Minimization of nutrition loss in processing	1	0	19	19	0	6	6	25
<b>Plan prot.</b>										
Quarter-1 <sup>st</sup>	PF	IPM in vegetable and summer crops for doubling the faremrs income	2	22	0	22	3	0	3	25
Quarter-2 <sup>nd</sup>	PF	Bio-control of pest & Diseases for doubling the faremrs income	2	25	0	25	0	0	0	25
Quarter-3 <sup>rd</sup>	PF	IPM and IDM in rabi crops for doubling the faremrs income	3	25	0	25	0	0	0	25
<b>Fisheries</b>										
Quarter-2 <sup>nd</sup>	PF	Doubling the income in brackish water Aquaculture-Shrimp Farming: Culture, Feed Management, Diseases and its prevention.	5	30	0	30	0	0	0	30
Quarter-3 <sup>rd</sup>	PF	Natural resources for additional income generation in fisheries sector-Sea Weeds: types, importance, culture techniques and various uses.	5	0	0	0	0	30	30	30
<b>Production of Inputs at site</b>										
Quarter-4 <sup>th</sup>	PF	Vermi-compost production for doubling the faremrs income	1	23	0	23	2	0	2	25
<b>Soil Health</b>										
Quarter-2 <sup>nd</sup>	PF	Importance of major and micro nutrient in crops production for doubling the faremrs income	1	18	5	23	1	1	2	25

ii) Farmers & Farm women (Off 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>										
Quarter-2 <sup>nd</sup>	PF	Integrated Weed Management in Oilseed crops for doubling the farmers income	1	21	3	24	1	0	1	25
Quarter-3 <sup>rd</sup>	PF	Pre-seasonal training on rabi crops (Chickpea, Cumin, Wheat) for doubling the farmers income	1	23	2	25	0	0	0	25
Quarter-3 <sup>rd</sup>	PF	Techniques of weed Management in Pulse crop for doubling the farmers income	1	20	6	26	2	2	4	30
<b>Horticulture</b>										
Quarter-1 <sup>st</sup>	PF	Processing and value addition in spices crops for doubling the farmers income	1	0	25	25	0	0	0	25
<b>Livestock prod.</b>										
Quarter-1 <sup>st</sup>	PF	Common diseases and its remedies in cattle.	1	25	0	25	0	0	0	25
Quarter-2 <sup>nd</sup>	PF	Importance of Nutrients and Feed Management in Animal Husbandry to increase milk production and diseases control.	1	20	0	20	10	0	10	30
Quarter-3 <sup>rd</sup>	PF	Importance of selection, housing, feed, breeding and health of animals for more profits in dairy industries	4	25	0	25	5	0	5	30
<b>Home Sc.</b>										
Quarter-1 <sup>st</sup>	PF	House hold food security by kitchen gardening and nutrition gardening for doubling the farmers income	1	0	19	19	0	6	6	25
Quarter-2 <sup>nd</sup>	PF	Location specific drudgery reduction technology for doubling the farmers income	1	0	19	19	0	6	6	25
Quarter-3 <sup>rd</sup>	PF	Income generation activities for empowerment of rural Women through rural crafts for doubling the farmers income	4	0	20	20	0	5	5	25
Quarter-4 <sup>th</sup>	PF	food processing and value addition in fruit, vegetable, and other agricultural produce for doubling the farmers income	1	0	25	25	0	0	0	25
Quarter-4 <sup>th</sup>	PF	Women and Child Care	1	0	25	25	0	0	0	25
<b>Plan prot.</b>										
Quarter-1 <sup>st</sup>	PF	Management of pink bollworm in cotton for doubling the farmers income	1	20	0	20	5	0	5	25
Quarter-2 <sup>nd</sup>	PF	Management of pink bollworm in cotton & management of white grub in groundnut and other kharif crops	1	20	0	20	5	0	5	25
Quarter-2 <sup>nd</sup>	PF	Management of diseases in <i>kharif</i> crops	1	25	0	25	0	0	0	25
Quarter-3 <sup>rd</sup>	PF	Integrated Disease and pest management in cumin and gram for doubling the farmers income	1	20	0	20	5	0	5	25
Quarter-3 <sup>rd</sup>	PF	IPM in vegetable crops: onion & garlic	1	25	0	25	0	0	0	25
Quarter-4 <sup>th</sup>	PF	Store grain pests and its management for enhance the loss and double the	1	25	0	25	0	0	0	25

income										
<b>Fisheries</b>										
Quarter-1 <sup>st</sup>	PF	Importance of composite/mix culture of IMC with exotic carp/Fresh water prawn spp.	1	25	0	25	0	0	0	25
Quarter-3 <sup>rd</sup>	PF	Pearl production: A source of additional income generation from inland fisheries	3	0	0	0	18	7	25	25
Quarter-4 <sup>th</sup>	PF	Doubling the income in inland fisheries sector by stocking, rearing and selling the fish seeds.	1	25	0	25	0	0	0	25
<b>Production of Inputs at site</b>										
Quarter-4 <sup>th</sup>	PF	Seed production technology of summer sesame for doubling the farmers income	1	22	0	22	3	0	3	25
<b>Soil Health</b>										
Quarter-1 <sup>st</sup>	PF	Awareness about soil health card (SHC)	1	20	8	28	2	0	2	30
Quarter-1 <sup>st</sup>	PF	Use of bio-fertilizers and recycling of farm waste through composting for doubling the farmers income	1	28	0	28	2	0	2	30
Quarter-2 <sup>nd</sup>	PF	Integrated Nutrient Management in Groundnut for doubling the farmers income	1	22	7	29	1	0	1	30
Quarter-3 <sup>rd</sup>	PF	Integrated Nutrient Management in rabi crops for doubling the farmers income	1	19	6	25	0	0	0	25

### ii) Vocational training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title*	Month	Duration (days)	No. of Participants			SC/ST participants			G.Total
					M	F	T	M	F	T	
Plant Protection	Bio-Pesticide	Production of Bio Pesticides at Small scale level	May	4	0	0	0	0	25	25	25
Fruit and Vegetable	Value addition	Value addition in fruits, vegetables and agriculture produce for doubling farmers income	Octo	4	0	19	19	0	6	6	25
Integrated Farming	Integrated Farming	Integrated Farming System	Jan	4	16	0	16	9	0	9	25

### iii) Training programme for extension functionaries

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>On Campus</b>										
	EF	Pre-seasonal training on <i>kharif</i> crops (Pigeon pea, Green gram, Groundnut, Cotton)	2	20	0	20	5	0	5	25
	EF	Crop production technology in Cumin, Gram, Wheat, Onion, Garlic	2	20	0	20	5	0	5	25

**Quarter and discipline wise summary of training programme :**

Discipline	Subject Code	On-Campus					Off-Campus					GT
		Quarter					Quarter					
		I	II	III	IV	Total	I	II	III	IV	Total	
<b>(A) Farmers &amp; Farm Women, Rural Youth</b>												
I Crop Production	CP	2	0	1	0	3		1	2		3	6
II Horticulture	HO					0	1				1	1
III Soil Health and Fertility Management	SFM		1			1	2	1	1		4	5
IV Livestock Production and Management	LPM	1	1			2	1	1	1		3	5
V Home Science/Women empowerment	WOE	1	1	1		3	1	1	1	2	5	8
VI Agril. Engineering	AEG		1			1					0	1
VII Plant Protection	PLP	1	1	1		3	1	2	2	1	6	9
VIII Fisheries	FIS		1	1		2	1	0	1	1	3	5
IX Production of Inputs at site	PI				1	1				1	1	2
X Capacity Building and Group Dynamics	CBD					0					0	0
<b>(B) Extension Functionaries</b>	EF	1		1		2					0	2
<b>(C) Rural youth</b>	RY	1			1	2			1		1	3
<b>Total</b>		<b>7</b>	<b>6</b>	<b>5</b>	<b>2</b>	<b>20</b>	<b>7</b>	<b>6</b>	<b>9</b>	<b>5</b>	<b>27</b>	<b>47</b>

**iv) Sponsored programme**

Discipline	Sponsoring agency	Client ele	Title of the training programme	No. of course	No. of participants			Number of SC/ST			G. Total
					M	F	T	M	F	T	
<b>a) Sponsored training programme</b>											
AEG	ATMA	PF	Importance of MIS	2	80	0	80	20	0	20	100
PLP	ATMA	PF	Kharif crop protection and production technology	3	100	40	140	10	10	20	160
SFM, AEG	AGAKHAN	PF	INM and MIS in rabi crops	2	50	50	100	5	5	10	110
PLP	DAO	PF	Integrated pest and diseases management in cumin	1	60	0	60	0	0	0	60
PLP	ATMA	PF	IPM & IDM in groundnut, cotton crops	1	55	0	55	5	0	5	60
PLP	DAO	PF	IPM, IDM, INM in groundnut and cotton	1	55	0	55	5	0	5	60
PLP	ATMA	PF	IPM & IDM in kharif crop	1	55	0	55	5	0	5	60
PLP	Dy.D.Hort.	PF	IPM, IDM, INM in Horticultural Crops	1	55	0	55	5	0	5	60
PLP	ATMA	PF	IPM, IDM, INM in Horticultural Crops	1	55	0	55	5	0	5	60
PLP	DWDU	PF	IPM & IDM in kharif crop	1	55	0	55	5	0	5	60
PLP, CP	ATMA	PF	Seed Production technology and IPM in these crops	1	55	0	55	5	0	5	60
PLP	ATMA	PF	Storage Techniques and IPM in summer crops	1	0	55	55	0	5	5	60
			<b>Total</b>	<b>16</b>	<b>675</b>	<b>145</b>	<b>820</b>	<b>70</b>	<b>20</b>	<b>90</b>	<b>910</b>
<b>b) Sponsored research programme</b>											
			<b>Total</b>								
<b>c) Any special programmes</b>											
SFM	ATMA	PF	World Soil health day	1	50	50	100	10	10	20	120
WOE	ATMA	PF	Mahila Krushi Divas	1	0	100	100	0	20	20	120
			<b>Total</b>	<b>2</b>	<b>50</b>	<b>150</b>	<b>200</b>	<b>10</b>	<b>30</b>	<b>40</b>	<b>240</b>

**New Technical Project Proposal 1 (Plant Protection)**

1	Title	:	<b>Knowledge of eco-friendly organic farming practices followed in crop by the farmers of Jamnagar District</b>
2	Background information	:	<p>Organic farming follows the principle of circular causation and has emerged in response to questions on health, environment and sustainability issues. It assesses the status, opportunities and sequestration potentials of in India. It identifies constraints that impede adoption of especially for small farm holders who constitute over 70% of farming community in India.</p> <p>Although India occupies second position in terms of number of certified organic farms (44,926), it is 13th in terms of area under of representing only 0.3 % of total agricultural lands. This scenario appears poor compared to many other countries. Farmer"s apprehension towards in India is rooted in non-availability of sufficient organic supplements, bio fertilizers and local market for organic produce and poor access to guidelines, certification and input costs. An integrated effort is needed from government and non government agencies to encourage farmers to adopt of as a solution to climate change, health and sustainability issue.</p> <p>India's organic food market has potential to grow more than 25 per cent annually to touch \$1.36 billion by 2020. (Joshi, 2017).</p> <p>Organic farming system is not new in our country and is being followed from ancient time. It is a dynamic interaction between the soil, the plants, the ecosystem and the environment which primarily aimed at cultivating land and raising crops in such a way as to keep the soil alive and in good health by use of organic waste i.e. crop, animal and farm waste and other biological material along with beneficial microbes.</p> <p>Gujarat has remained a pioneer state in adopting organic farming. There are more than dozen groups and networks across the state working voluntarily for promotion, training and marketing of organic produce.</p> <p>But still there is a huge gap in efforts being made by govt and adoption of observe and do effort to document the practices followed by farmers who adopted organic farming in the region. Looking to this, the study was empirically carried out with following specific objectives</p>
3	Objective	:	<ul style="list-style-type: none"> <li>➤ To study the socio-economic profile of farmers.</li> <li>➤ To assess the adoption level of farmers about organic farming practices</li> <li>➤ To study knowledge of farmers for organic farming practices.</li> </ul>
4	Principal Investigator	:	Dr. K. P. Baraiya, Senior Scientist & Head, KVK, JAU, Jamnagar
	Co-investigator		Smt. A. K. Baraiya, Scientist (Home Science), KVK, JAU, Jamnagar Shri S. H. Lakhani, Scientist (Agronomy), KVK, JAU, Jamnagar Dr. P. V. Patel, Director of Extension Education, JAU, Junagadh
5	Location	:-	Jamnagar and Devbhumi Dwarka District
6	Year of Commencement	:	2019-20
7.	Experimental Detail/ Methodology	:	The present research study will conducted in jurisdiction of Krishi Vigyan Kendra, Junagadh Agricultural University, Jamnagar. Four talukas will selected purposively where organic farming is being practiced for conduction the present investigation. Three villages will further selected purposively from each selected taluka; where organic farming is being practiced and village wise organic farmers list will prepared. Ten farmers will selected randomly for the study purpose. Thus, overall 120 farmers will selected study purpose and an interview schedule was developed as preferred by farmer time period and data were collected by personal interview method. The data collected by personal interview method were processed, tabulated, classified and analyzed in light of objectives.

**New Technical Project Proposal 2 (Home Science)**

1	Title	:	<b>Knowledge of human nutritional practices among the farm women of Jamnagar District</b>
2	Background information	:	<p>Health is a precious asset for everyone. It is an essential requirement of all irrespective age, caste, creed, race, religion and economic standard. There is a significant relationship between housing conditions and health. An adequate and safe water supply, disposal of excreta and solid wastes drainage of surface water, facilities for personal and domestic hygiene and sanitary food preparation, control of indoor air pollution, safe handling of things and suitable precautions where the home serves as a work place. Moreover, the health problems are rampant in rural areas, not merely because of lack of medical facilities but because of general poverty, lack of balanced and nutritious diet to large proportion of rural population and moreover lack of knowledge with regard to health and hygiene.</p> <p>Good nutrition is a firm foundation for human happiness, and sound health and skilled performance. It constitutes the most important readily improved environmental influence of health. Even, today 25 percent of our Indian populations are trapped in the viscous circle of poverty, malnutrition and diseases which reduce their work performance nullify all efforts undertaken for their development and finally impede over nation's progress.</p> <p>Even though, there are many schemes, programmes, medical services to serve the people, there is a great bulk of illness in our country. The common factors which contribute are personal ignorance, poverty, isolation, lack of resources and lack of knowledge.</p> <p>The overall objective of the study is to bring the awareness to improve the nutrition status. The study provides the information on the knowledge of the nutritional practices of the farm women. It would also give the information on the suggestions to improve the health and nutrition status among the rural livelihood.</p>
3	Objective	:	<ul style="list-style-type: none"> <li>➤ To know the social variables of farm women</li> <li>➤ To study knowledge of farm women on selected nutritional practices</li> </ul>
4	Principal Investigator	:	Smt. A. K. Baraiya, Scientist (Home Science), KVK, JAU, Jamnagar
	Co-investigator		Dr. K. P. Baraiya, Senior Scientist & Head, KVK, JAU, Jamnagar Shri S. H. Lakhani, Scientist (Agronomy), KVK, JAU, Jamnagar Dr. P. V. Patel, Director of Extension Education, JAU, Junagadh
5	Location	:-	Jamnagar District
6	Year of Commencement	:	2019-20
7.	Experimental Detail/ Methodology	:	The study area of this research programme will be all six blocks viz., Jamnagar, Jodia, Dhrol, Kalavad, Lalpur & Jamjodhpur of Jamnagar District. From each taluka three villages and from selected villages four women will be selected randomly for the study. Thus, total of 120 women will constitute the sample size for this study. For collection of data personal interview technique will be used. Data will be collected with the help of structured interview schedule. Frequencies, percentage and mean percent score will be used for analysing the data statistically.



**Budget - Details of budget utilization (2018-19) up to 31 January 2019**

S. No.	Particulars	Sanctioned	Released	Expenditure
<b>13.1</b>	<b>Recurring Contingencies</b>			
13.1.1	<b>Pay &amp; Allowances</b>	9500000	7200000	6850659
13.1.2	<b>Traveling allowances</b>	200000	50000	46923
13.1.3	<b>Contingencies</b>	1050000	850000	1030092
13.1.4.1	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance			
<i>B</i>	POL, repair of vehicles, tractor and equipments			
<i>C</i>	Meals/refreshment for trainees			
<i>D</i>	Training material			
<i>E</i>	Frontline demonstration except oilseeds and pulses			
<i>F</i>	On farm testing			
<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			
<b>13.1</b>	<b>Total Recurring</b>	<b>10750000</b>	<b>8100000</b>	<b>7927674</b>
<b>13.2</b>	<b>Non-Recurring Contingencies</b>			
13.2.1	<b>Works</b>	0	0	0
13.2.2	<b>Equipments including SWTL &amp; Furniture</b>	800000	0	0
13.2.3	<b>Vehicle</b> (Four wheeler/Two wheeler, please specify)	800000	0	0
24.2.4	<b>Library</b>	0	0	0
<b>13.2</b>	<b>Total Non Recurring</b>	<b>1600000</b>	<b>0</b>	<b>0</b>
<b>13.3</b>	<b>REVOLVING FUND</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>13.4</b>	<b>GRAND TOTAL (A+B+C)</b>	<b>12350000</b>	<b>8100000</b>	<b>7927674</b>

**Details of Budget Estimate (2019-20) based on proposed action plan**

S. No.	Particulars	BE 2019-20 proposed (Rs.)
<b>14.1</b>	<b>Recurring Contingencies</b>	
14.1.1	<b>Pay &amp; Allowances</b>	<b>10800000</b>
14.1.2	<b>Traveling allowances</b>	<b>200000</b>
14.1.3	<b>Contingencies</b>	<b>2800000</b>
<i>A</i>	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	500000
<i>B</i>	POL, repair of vehicles, tractor and equipments	300000
<i>C</i>	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	400000
<i>D</i>	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	100000
<i>E</i>	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	500000
<i>F</i>	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	200000
<i>G</i>	Training of extension functionaries	300000
<i>H</i>	Maintenance of buildings	400000
<i>I</i>	Establishment of Soil, Plant & Water Testing Laboratory	80000

<i>J</i>	Library	20000
14.1	<b>TOTAL Recurring Contingencies</b>	<b>16600000</b>
<b>14.2</b>	<b>Non-Recurring Contingencies</b>	
14.2.1	<b>Works</b>	55800000
14.2.2	<b>Equipments including SWTL &amp; Furniture</b>	
14.2.3	<b>Vehicle</b> (Four wheeler/Two wheeler, please specify)	2000000
14.2.4	<b>Library</b> (Purchase of assets like books & journals)	50000
<b>14.2</b>	<b>TOTAL Non-Recurring Contingencies</b>	<b>57850000</b>
<b>14.3</b>	<b>REVOLVING FUND</b>	0
<b>14.4</b>	<b>GRAND TOTAL</b>	<b>74450000</b>