ANNUAL PROGRESS REPORT-2014-15

(APRIL - 2014 TO MARCH-2015)

&

ACTION PLAN

(APRIL - 2015 TO MARCH-2016)

OF

KRISHI VIGYAN KENDRA JAMNAGAR

TOBE PRESENTED AT
ANNUAL ZONAL WORKSHOP OF ZONE-VI
(Rajasthan & Gujarat)
HELD AT MPUAT, UDAIPUR (RAJASTHAN)
DURING 23th TO 25th MAY, 2015

PREPARED/COMPILED By
Dr. K. P. Baraiya, Senior Scientist & Head
Smt. A. K. Baraiya, Scientist
Shri S. H. Lakhani, Scientist
Dr. J. N. Thaker, Scientist

KRISHI VIGYAN KENDRA
JUNAGADH AGRICULTURAL UNIVERSITY
AIRFORCE ROAD, OPP. DIGJAM MILL
JAMNAGAR-361 006
GUJARAT

CONTENT

ANNUAL PROGRESS REPORT-2014-15

(1st APRIL - 2014 TO 31stMARCH-2015)

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	Web address
	Office	FAX		
Krishi Vigyan Kendra Millet Research Station, JAU Airforce Road, Opp. Digjam Mill Jamnagar- 361 006	(0288) 2710165	(0288) 2710165	kvkjamnagar@gmail.com kvkjamnagar@jau.in	www.jau.in

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

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

1.3. Name of the Programme Coordinator with phone &mobile No

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. K. P. BARAIYA	Programme Coordinator Krishi Vigyan 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, LetterNo. F.No. 18(4)/99-NATP Dated October 31st, 2001

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

1.5. StaffPosition (as on 31stMarch, 2014)

Sl. No.	Sanctioned post	Name of the incumbent	Desig-nation	Discipline	PayScale	Presentbasic	Date of joining	Perm-anent /Temp-orary	Category (SC/ST/ OBC/ Others)
1	Programme Coordinator	Dr. K.P. Baraiya	PC	Plant Protection	37400-67000	21390	17.08.2006	Temp	Other
2	SubjectMatterSpecialist	Shri S. H. Lakhani	SMS	CropProduction	15600-39100	15600	30.03.2015	Temp	Other
3	SubjectMatterSpecialist	Vaccant	SMS	Plant Protection	15600 - 39100	-	-	-	-
4	SubjectMatterSpecialist	Vaccant	SMS	Horti.	15600 - 39100	-	-	-	-

5	SubjectMatterSpecialist	Shri P. S. Gorfad	SMS	ExtensionEducation	15600 - 39100	22650	27.6.1994	Temp.	OBC
6	SubjectMatterSpecialist	Dr. J. N. Thaker	SMS	Fisheries	15600 - 39100	21390	31.08.2006	Temp.	Other
7	SubjectMatterSpecialist	Smt. A. K. Baraiya	SMS	Home Science	15600 - 39100	15600	17.08.2006	Temp.	Other
8	Farm Manager	Shri S. N. Galani	Prog. Asstt.	Pl. Breeding	9300-34800	13700	14.2.2012	FixPay	Other
9	Programme Assistant	Shri K. S. Mungra	Prog. Asstt.	Pl. Breeding	9300-34800	13700	06.4.2015	FixPay	Other
10	Computer Programmer	Shri C. P. Padhiyar	Prog. Asstt.	ComputerOperator	9300-34800	11270	29.12.2008	Temp	Other
11	Accountant / Superintendent	Shri B. H. Joshi	O.S.	Adm.	9300-34800	11270	11.6.2008	Temp.	Other
12	Stenographer	Kum. B. N. Dave	Jr. Clerk	Adm.	5200-20200	7810	11.06.2008	Fix	Other
13	Driver	Vacant	Driver	Supt.	5200-20200	-	-	-	-
14	Driver	Shri. D.M. Chauhan	Driver	Supt. (Fix)	5200-20200	6310	9.10.2007	Temp.	S. T.
15	Supporting staff	Shri B. B. Bamaniya	Peon	Supt.	4440-7440	4620	01.11.2014	Temp.	S.T.
16	Supporting staff	Shri P. S. Damor	Peon	Supt.	4440-7440	4990	1.09.2006	Temp.	S. T.

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

Sl. No.	Item	Area in hectare(s)*
1	Under Building and Road	1.56
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
	Total	**20.44**

1.7. Infrastructural Development:

A) Buildings

Sl. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Comp-letion Date	Plinth area (Sq.m)	Expen-diture (Rs.)	Star-ting Date	Plinth area (Sq.m)	Status of const-ruction
1.	Administrative Building	KVK	15-8-11	550	5500000			
2.	Farmers Hostel	KVK	15-8-11	305	3000000			
3.	StaffQuarters (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	-	-	-
	Net House	RKVY	31-3-09	150	64498	-	-	-

	Training Hall	RKVY	20-2-10	190.99	1395800	-	-	-
	Process Plant	RKVY	20-2-10	197.31	1536400	-	-	
	Implement shed	RKVY	11-2-10	77.33	297800	-	-	-
6	Rain Water harvestingsystem	KVK	31-3-2007	26m×26m (2 Ponds)60m×60m (1 Pond)	999000	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Presentstatus
Toyota Quallis (GJ-10G 433)	2004	490200	357651	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
Qualish (GJ-10 G-433)	2004-05	490200	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 SACmeeting 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	As below	As below

The Eleventh Scientific Advisory Committee meeting of Krishi Vigyan Kendra, JAU, Jamnagar was held at Training Hall, Krishi Vigyan Kendra, JAU, Jamnagar on 21st February, 2015.

Committee made the following recommendations after active interaction.

Sl. No.	Salient Recommendations	Action Taken
1.	Dr. A. R. Pathak, Hon'ble Vice Chancellor, Junagadh Agricultural University, Junagadh & Chairman of the SAC suggested to keep soil testing laboratory in working condition as possible as earliest. He suggested that FLD should be conducted on vegetable varieties released by JAU. He also advises to spread new technologies through maximum front line demonstration in cluster. He emphasizes to conduct more number of FLD on bioproducts in other schemes.	Suggestation accepted and implemented

2.	Dr. A. M. Parakhia, Director of Extension Education, JAU, Junagadh advice that more number of villages should be cover in maximum FLD. It should be in cluster. He also suggested to arrange FLD on sea weed fertilizer for horticultural crops.	Suggestation accepted and implemented
3.	Dr. K. N. Akbari, Associate Director of Research (North Saurashtra Agro-climatic Zone) and Research Scientist (DF), Dry Farming Research Station, JAU, Targhadia suggested to application of potash in FLD as per soil testing report.	Suggestation accepted and implemented
4.	Shri Hirabhai Nakum, a progressive farmer suggested to sale bioproducts by KVK.	Suggestation accepted and implemented

- 11^{th}SACproceedings along with list of participants in Annexure – I.

2. DETAILS OF DISTRICT (2014-15)

The district of Jamnagar is lies in North Saurashtra Agro climaticzone(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^2 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 potential evapo-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 radicaldrainage pattern. Deccantrap basalt occupies a major part of the district. The Quaternary formations include milliolite, 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 degradationare accelerated water erosion and Salinization.

Basicinformation of operational district, jamnagar:

Sr. No.	Details	JAMNAGAR		DEVBHUMI DWARKA	
1	Total geographical area	6.075 lakh ha.		4.07509 lakh ha.	
2	Totalcultivablearea	4.32 lakh ha.		2.52 lakh ha.	
3	Netcultivated area	3.53 lakh ha.		2.38 lakh ha	
4	Totalareaunder forest	0.43 lakh ha.		0.1736 lakh ha	
5	Totalirrigated area	0.939 lakh ha.		0.23092 lakh ha.	
6	Number of holdings	1.44 lakh		1.17 lakh	
7	Averageannual rainfall	550 mm.		550 mm.	
8	Soiltype	Medium black		Medium black	
9	Totalnumber of villages	419 (8 city)		280 (8 city)	
10	Totalpopulation	13.89 lakh (2011)		7.48 lakh (2011)	
	(a) Male	7.18lakh .		3.84lakh .	
	(b) Female	6.71 lakh		3.64lakh .	
11	Literacypercentage	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
		Floriculture	:	Rose, merry gold, vevanti, etc
		Other Crops	:	Chikori, Fenugreek
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)

S. No	Agro-climatic Zone	Characteristics
Zone–VI	North Saurashtra	The influence area of North Saurashtra Agroclimatic Zone is spread among five districts *viz*., Amreli (7 taluukas 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 founded 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 ncoastal part of Bhavnagar district, on the South by the Junagadh district and parts of Amreli as well as Rajkot district, to the west by Arebian sea. 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, pearlmillet, 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, Jamkhambhalia (Jamnagar District).

Agro – Ecologicalsituation in the District

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

The physiography of entireregion of district is more or less flat. However, the region is undulating with slopes having little hillyareas from 25 to150 metersPhysicalfeatures of the area vary from flat landto 150 meters above meansea level. Most of the area falls in the range of 25m to 150m above mean sea level.

Based on the soilsurveyinformation of the zone, the soils of the district hence been broadly classified in tofine 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 zoneinto district agro ecological situations, there major factors including varioussoil 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 irrigationhas 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 influencearea 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 EcologicalSituation	Soiltexture	Altitude	Principal crops	Specialfeatures	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, pearlmillet	Well drained soils with rapid permeability	124	Kalawad, Jamjodhpur, Bhanvad, Okha	Moisturestress, temperature stress
AES-2	Shallow Black soils with 600-700 mm Rainfall	Clayey	75 – 150	Groundnut, wheat, sorghum, pearlmillet	Slightly well drained soils with rapid permeability	180	Part of Kalyanpur, Jamnagar, Jamkhambhalia, Lalpur, Dhrol, Jodia	Moisturestress, temperature stress
AES-3	Coastal Alluvial soils with 300-400 mm Rainfall	Clayey loam to clayey	50	Groundnut, pearlmillet, sorghum, chickpea	Low nitrogen and phosphus	181	Jodia, part of Okha, Jamkhambhalia, Kalyanpur & Jamnagar	Salt affected salinity

AES-4	Coastal Alluvial soils with 500-700 mm Rainfall	Silt clay	25-50	Groundnut, pearlmillet, sorghum, chickpea	Low nitrogen and phosphorus	299	Kalyanpur, Jodia & Jamnagar, Khambhadia, Lalpur, Dwarka	Salt affected salinity
AES-5	Coastal Alluvialshallo w black soils with 300-400 mm Rainfall	Sandy loam toclay loam	0-25	Sorghum, Pearlmillet, Groundnut, Sesamum	Aridclimate	31	Okha	Known salinityforgen us ephedra seacoast very rich in Alghl flor and fanner of economic importance.

2.3 Soil type

As the geographical formation of Saurashtra is to volcanic origin, the soils are generally desiredfrom basaltic rock known as Daccan trap. This is the commonest rock in India and due to its extensive occurrence in south is called “Daccan Traps”. In many parts, they6 have flat top features and hence, are also known as plateau basalt. The trap rocks, which occupy a large part of western cost 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 form a ferruginous gravelly material known as murrum, which under lie-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	These soils have developed from basaltic trap especially from granite and gneiss parent materials. They light grey in colour. Taxonomically, they are classified as *Ustorthents* and *Ustochrepts*. 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. The soils are neutral to alkaline in reaction p^H 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.	124000 ha (Kalawad, Jamjodhpur, Bhanvad, Okha)
2.	Mediu m black soils	The major portion of Jamnagar (Some part of Kalyanpur, KHambhaliya & Jamnagar, major part of Lalpur, Dhrol, Jodia taluka 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	180000 ha (Part of Kalyanpur, Jamnagar, Jamkham-bhalia, Lalpur, Dhrol, Jodia)

		decomposed trap and limestone) is generally found in sub soil layer. The drainage does not pose any problem, because of porous sub soil layer. 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 *Ustochrepts* in *Inceptisol* 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 *Vertic – Ustochrepts* at sub group level. 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. The chemical composition of these soils is neutral to alkaline reaction (p^H7.4 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.	
3.	Saline alkali soils	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 Okha mandal, Kalyanpur, Jamkhambhaliya and jamnagar talukas). 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 *Fluvaquents, Halaquents,* and *Haplaquents* (Entisol): *Haplaquents* and *Haptaquepts* in order – *Inceptisol.* Texturally these soils vary from sandy loam to clay. The degree of salinity and alkalinity is also highly variable. 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^H 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.	181000 ha (Jodia, part of Okha, Jamkhambhalia, Kalyanpur & Jamnagar)
4.	Costal alluvial soils	these soils are located in the district of Jamnagar consisting Kalyanpur, Jodia and Jamnagar, Jamkhambhadia, Lalpur, Dwarka (Okha Mandal) 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 ot highly alkaline (p^H 7.6 to 9.0). The souls are normally medium in fertility. Taxonomically, these souls are classified as *Halaquents* and *Haplaquents* – Entisol and *Helaquepts* and *Hapdaquents* in Inceptisol order.	299000 ha (Kalyanpur, Jodia & Jamnagar, Khambhadia, Lalpur, Dwarka)

5.	Hilly soils	These soils occur in some parts Bhanvad and Jamjodhpur talukas 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 *Ustorthents* and those near foothills and valley are comparatively deeper can be placed under *Ustochrepts* and can be classified under estisol and *Inceptisol* 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)
	Oilseeds			
1	Groundnut	378335	5675025	15
2	Sesamum	6280	22608	3.6
3	Castor	7375	192487.5	26.1
4	Soybean	8	140	17.5
	Total Oilseeds	**391998**		
	Cash Crops			
5	Cotton	180440	4150120	23
6	sugarcane	150	7500	50
	Total Cash Crops	**180590**		
	Food Grain			
7	Wheat	58600	1881060	32.1
8	Pearlmillet	3520	46112	13.1
9	Sorghum	8100	85050	10.5
10	Maize	2850	20520	7.2
	Total Food Grains	**73070**		
	Pulse Crops			
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	
	Total Pulses	**39305**		
	SPICES AND CONDIMENTS			
19	Cumin	27690	146757	5.3
20	Fennel	115	241.5	2.1
21	Coriander	1460	15330	10.5
22	Ajwan	1690	6929	4.1
23	Ishabgul	150	1020	6.8
24	Chilli	740	7104	9.6
25	Garlic	7000	518000	74
26	Dill seed	50	275	5.5
	Total spices	**38895**	0	
	VEGETABLE		0	
27	Onion	2980	518520	174
28	Potato	2150	49450	23
29	Brinjal	1560	173160	111
30	Tomato	1980	301950	152.5

31	Cauliflower	440	44000	100
32	Cowpea	840	34356	40.9
33	Cabbage	435	43500	100
34	Okra	1550	85715	55.3
35	Fenugreek	40	460	11.5
36	Peach	5	10	2
37	Cucurbits	42	1596	38
38	Cluster bean	1138	46999.4	41.3
39	Other vegetable	17	484.5	28.5
	Total Vegetable	**13177**	0	
	FRUIT CROPS		0	
40	Chiku	238	21658	91
41	Pomegranate	77	4004	52
42	Citrus	173	7006.5	40.5
43	Jamun	7	14.7	2.1
44	Aonla	76	2964	39
45	Guava	15	600	40
46	Custard apple	70	3605	51.5
47	Papaya	187	86955	465
48	Coconut	380	2850000	7500
49	Ber	300	15750	52.5
50	Almond	55	2200	40
51	Banana	12	1140	95
52	Mango	425	37825	89
53	Cashew nut	7	24.5	3.5
54	Other fruits	165	8250	50
	Total Fruits	**2187**	0	
	FLOWERS		0	
55	Rose	31	1798	58
56	Merry gold	52	4576	88
57	Shevanti	1	0	
58	Lilly	7	18.9	2.7
59	Other flowers	55	1540	28
	Total flowers	**146**	0	
	OTHER CORPS		0	
60	Chikori	50	4325	86.5
61	Palma Rosa	43	5375	125
	Total Other crops	**93**		
	Fodder crops			
62	Lucern	1105	132600	120
63	Sorghum	16660	2499000	150
64	Maize	2910	0	
	Total Fodder crops	**20675**		

* Source : DAO, & Dy.Dir.Hort., Jamnagar

2.5. Weather data (January-14 to March-15)

Week No	Temp. C°		R.H.%		WS	BSS	Eo	Rain	Rainy
	Max	Min	I	II	(kmph)	(hrs)	(mm)	(mm)	Days
1-J	23.2	10.2	78	28	6.1	7.9	4.3		
2	24.1	11.2	73	35	6.7	8.7	4.2		
3	24.7	10.2	84	35	4.6	8.9	4.1		
4	25.8	13.3	74	42	6.0	8.6	4.7		
5	29.3	12.9	84	39	3.2	9.0	4.7		
6-F	27.2	13.1	90	38	5.0	9.5	4.4		
7	26.7	12.0	76	31	6.0	9.9	4.8		
8	28.7	15.1	75	36	6.7	8.7	4.7		
9	29.3	12.8	80	24	5.2	9.5	5.0		

10-M	32.7	17.8	72	28	6.0	9.5	6.2		
11	33.0	17.7	61	28	7.3	9.7	7.5		
12	32.4	18.3	91	36	7.6	9.8	7.3		
13	33.0	20.7	87	40	8.4	10.0	7.5		
14-A	34.0	21.3	93	34	8.8	10.0	7.3		
15	34.5	20.6	87	34	8.1	10.5	7.7		
16	34.9	24.2	83	46	8.9	10.2	8.0		
17	38.3	24.5	84	35	9.0	10.4	8.8		
18	37.3	25.2	81	45	10.7	10.3	9.0		
19-M	37.4	26.1	78	42	12.5	10.8	10.1		
20	36.0	26.3	81	53	11.7	9.7	9.6		
21	37.3	26.0	82	43	12.8	10.6	10.0		
22	36.9	27.3	81	53	13.3	10.5	9.8		
23-J	38.3	27.3	74	44	15.6	10.8	10.2		
24	37.9	28.8	80	50	12.3	8.8	9.2	7.0	1
25	37.5	28.8	77	47	16.9	7.7	8.4		
26	36.0	27.9	73	51	18.0	9.2	8.9		
27-J	35.9	27.6	75	52	16.1	9.6	8.8		
28	35.4	27.1	85	63	10.1	7.2	7.8	25.0	1
29	33.1	27.1	89	68	11.2	3.2	5.1	42.0	2
30	31.4	26.3	89	80	13.7	1.4	4.8	26.5	2
31	32.0	26.3	93	78	10.3	2.6	3.7	85.0	3
32-A	30.8	24.9	93	80	7.1	1.0	4.5	13.5	*2*
33	31.9	25.2	90	66	10.2	4.9	4.6	10.0	1
34	33.0	25.5	83	58	7.1	7.3	4.9		
35	32.3	25.6	87	69	7.9	6.1	3.9	20.5	1
36-S	31.7	25.4	90	75	8.3	3.7	4.5	19.5	3
37	31.4	24.6	91	72	6.4	2.9	4.5	10.5	1
38	33.1	23.5	88	58	5.6	8.8	4.9	2.0	
39	33.4	24.1	85	57	4.7	8.6	5.0		
40-O	35.0	24.7	82	47	4.0	9.3	5.6		
41	37.1	24.3	85	35	4.6	9.3	6.0		
42	35.4	20.3	78	25	2.9	8.9	5.5		
43	35.3	22.3	75	35	3.2	8.4	5.6		
44	32.7	23.3	72	45	3.3	4.7	4.9		
45-N	32.0	21.3	80	42	4.6	9.0	4.7		
46	32.3	23.5	64	44	5.0	7.6	4.7	0.5	
47	32.0	19.2	75	33	3.7	8.6	4.8		
48	30.5	17.6	85	43	2.9	8.7	4.4		
49-D	30.1	16.2	67	31	4.3	8.6	4.7		
50	26.9	11.3	66	30	4.2	8.8	4.4		
51	25.3	12.1	63	36	6.3	8.1	4.8		
52	25.3	11.8	66	33	5.5	8.7	4.7		
1-J	24.8	12.8	78	28	6.6	7.6	4.8		
2	27.1	13.0	92	42	3.5	8.6	4.5		
3	25.4	13.5	71	39	6.5	8.3	5.1		
4	24.5	12.2	72	37	6.7	8.9	4.8		
5	26.1	12.6	72	40	6.2	9.6	5.1		
6-F	27.3	15.5	64	32	6.8	9.8	5.4		
7	29.7	16.0	93	37	7.4	9.7	4.9		
8	32.6	19.0	85	38	6.7	9.0	5.0		
9	26.4	14.0	85	38	6.9	9.5	4.5	9.0	1
10-M	29.3	17.3	70	32	7.7	9.5	5.0		
11	30.5	17.3	77	36	6.7	9.6	4.9		
12	35.6	20.1	77	27	6.8	10.0	6.1		
13	35.4	22.0	86	36	8.2	7.6	6.1		
Mean	31.64	20.09	79.95	43.60	7.65	8.35	5.91	20.85	1.64
Highest	38.30	28.80	93.00	80.00	18.00	10.80	10.20	85.00	3.00
Lowest	23.20	10.20	61.00	24.00	2.90	1.00	3.70	0.50	1.00

* Source: Meteorological observatory, Millet Research Station, JAU, Jamnagar;

2.6. Production and productivity of livestock, Poultry, Fisheriesetc. in the district

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

Category	Area	Production	Productivity
Fish			
Marine			
Inland			
Prawn			
Scampi			
Shrimp			

Source: Assistant Directorate of Fishries, Jamnagar

2.7 Details of Operational area/ Villages (2011-12 to 2014-15)

Sl. No	Taluka	Name of the village	Major crops& enterprises	Majorproblem identified	Identified Thrust Areas
1	Jodiya	Keshiya, Lakhtar, Anand, Limbuda, Manpar, Hirapar	Cotton, groundnut, sesamum, castor, greengram, wheat, Gram, cumin, mustard, Vegetable, Soyabean, flowers, live stock	Heavy infestation of sucking pest in cotton, stem rot disease in Groundnut, Root rot in castor, Less area under horticulture crops, Blight in cumin, salinity	- ICM in major crops of the district - Introudction of new crop - Recycling of farm waste - Populirization of MIS - Motivation of fishries cultivation - Soil Reclamation - Farm women empowerment - Farm mechanization
2	Dhrol	Nathuvadala, Soyal, Vankiya, Manekpar, Nana garadiya, mavapar			
3	Jamjodhpur	Kalyanpar, Udaipur, Kadbal, Vasantpar, Dhanuda, Gorkhadi			

2.8 Priority thrust areas

Sl. No	Crop/ Enterprise	Thrustarea
1.	Cotton, groundnut, castor, cumin, wheat, vegetables, fruits, etc.	Integrated Crop Management in major crops
2.	Soyabean	Introduction of new crops in the districts as sole crop and inter cropping
3.	Farm waste	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	Motivation of fisheries farmng
8.	Improved Implements	Popularization of the mechanized technological know how

3. TECHNICAL ACHIEVEMENTS

3.A. Details of target and achievements of mandatoryactivities by KVK during 2013-14

OFT				
	Number of OFTs		**Number of Farmers**	
	Targets	**Achievement**	**Targets**	**Achievement**
Groundnut	1	1	3	3
Okra	1	1	3	3
Home Science	2	2	7	7
Cumin	1	1	3	3
Wheat	1	1	3	3
Fisheries	2	Nil	6	Nil

FLD	**Area of FLD (ha)**		**Number of Farmers**	
	Targets	**Achievement**	**Targets**	**Achievement**
***Kharif* -2014-15**				
Groundnut (White grub)	10	10	25	25
Cotton	10	10	25	25
Groundnut (Trichoderma)	2	2	5	5
Groundnut (NPV)	2	2	5	5
Brinjal	2	2	5	5
Chilli	2	2	5	5
Total	**28**	**28**	**70**	**70**
Rabi-2014-15				
Wheat	10	10	20	20
Cumin	4	4	10	10
Chickpea	6	6	15	15
	20	**20**	**45**	**45**
Summer 2014-15				
Green gram	4	4	10	10
Pearl Millet	4	4	10	10
Total	**8**	**8**	**20**	**20**
Grand Total	**56**	**56**	**135**	**135**

FLD conducting other than KVK Scheme during						
			Area of FLDs (Ha)		Number of Farmers	
Scheme		Crops	Targets	Achievement	Targets	Achievement
ATIC	***Rabi – 2014-15***	Groundnut (IPM)	4	4	10	10
		Cotton (IPM)	2	2	5	5
		Wheat (Micro Mixture)	2	2	5	5

Training					Extension Activities			
Number of Courses			Number of Participants		Number of activities		Number of Participants	
Clientele	Targets	Achievement	T	A	T	A	T	A
Total	71	111		6299	-	-	-	-

Seed Production (Kg.)		Planting material (Nos.)	
Target	Achievement	Target	Achievement
	Green Gram (GM-4) - 474 kg		
	Sesame (G.Til.-10) - 110 kg		

3.B. Abstract of interventions undertaken

S. No	Thrustarea	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of trainingfor extension personnel if any	Extension activities	Supply of seeds, planting material setc.
1	Increase the productivity of cotton	Cash crop	Sucking pest infestation	Management of sucking pest in cotton	-	Mgt. of sucking pest	-	Field day	Pesticides
2	Increase the productivity of groundnut	Oil seeds	Stem rot disease in groundnut	Biological control of *Sclerotium rolfsii* (stem rot) in groundnut	-	IDM in groundnut	-	Field day	Trichoderma
3	GG-20 is highly susceptibleto stem rot	Groundnut	Stem rot of groundnut	Yield losses in groundnut duet to*Sclerotium* stem rot	FLD on stem rotresistantvariety GG-5	Integrated management of stem rot	IDM in groundnut	Field day, Radio talk, Training on IDM,	GG-5
4	Seed setering and yield	Sesamum	Seed setering and low yield	-	Synchronized maturity and high yielding variety with good quality	ICM system, IPM, IDM	-	Field day, radiotalktraining on ICM/ IPM/ IDM,	G.Til-2
5	Pest-Disesae &yield	Castor	Wilt,	-	IDM in castor	ICM, IPM, IDM	-	Field day, radiotalk	GCH-7
6	Low yield of bajara	Pearl Millet	Time of thinning	Effect of time of thinning on yield of bajara	Effect of time of thinning on yield of bajara	Importance of Thinning period,	-	Field day, radio talk, TV prog.	GHB-538
7	Pest&disease problem	Chick pea	Wilt & pod borer problem,	-	IPM in chickpea	IPM in chickpea	-	Field day	Guj-2
8	Yield	Wheat	Low yield of wheat	-	Low yield of wheat	ICM, IDM	-	Field day, Radiotalk	GW-496
9	Yield	Mustard	Low yieldduetopest	-	Resistant& high yielding variety	IPM, ICM	ICM, INM, IDM,	Field day, radiotalk	GM-3
10	INM	Cotton	Unjudicious use of fertilizers	Low yield in cotton	INM in cotton	INM, IPM	INM, IPM	Field day, training	Bt. Cotton
11	Pest&Disease	Cotton	Mealybug	-	IPM	IPM	IPM	Radio talk, Literature	Components

3.1 Achievements on technologies assessed and refined

A.1 Abstract of the number of technologies **assessed*** in respect of crops/enterprises

Thematic areas	Cereals	Oilseeds	Pulses	Comm-ercial Crops	Veget-ables	Fruits	Flower	Plant-ation crops	Tuber Crops	TOTAL
Varietal Evaluation	1	1	2							4
Seed / Plantproduction										
Weed/Thining Management	1									1
IntegratedCropManagement		1		1						2
IntegratedNutrientManagement				2						2

IntegratedFarmingSystem										
Mushroom cultivation										
Drudgery reduction										
Farm machineries										
Valueaddition										
IntegratedPestManagement		2	1	2	2					7
IntegratedDiseaseManagement		3	1	1						5
Resourceconservationtechnology										
Small Scaleincome generating enterprises										
TOTAL	2	7	4	6	2					21

*** *Any new technology, which may offer solution to a location specific problem but not tested earlier in a given micro situation.*

A.2. Abstract of the number of technologies refined* in respect of crops/enterprises

Thematic areas	Cereals	Oilseeds	Pulses	Comm-ercial Crops	Veget-ables	Fruits	Flower	Plant-ation crops	Tuber Crops	TOTAL
Varietal Evaluation	1	1	2							4
Seed / Plantproduction										
Weed Management	1									1
IntegratedCropManagement		1		1						2
IntegratedNutrientManagement				2						2
IntegratedFarmingSystem										
Mushroom cultivation										
Drudgery reduction										
Farm machineries										
PostHarvestTechnology										
IntegratedPestManagement		2	1	2	2					7
IntegratedDiseaseManagement		3	1	1						5
Resourceconservationtechnology										
Small Scaleincome generating enterprises										
TOTAL	2	7	4	6	2					21

*** *Technology that is refined in collaboration with ICAR/SAU Scientists for improving its effectiveness.*

A.3. Abstract of the number of technologies **assessed** 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	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-

A.4. Abstract on the number of technologies **refined** in respect of livestock / enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitry	Fisheries	TOTAL
Evaluation of Breeds	-	-	-	-	-	-	-	-
Nutrition Management	-	-	-	-	-	-	-	-
Disease of Management	-	-	-	-	-	-	-	-
Value Addition	-	-	-	-	-	-	-	-
Production and Management	-	-	-	-	-	-	-	-
Feed and Fodder	-	-	-	-	-	-	-	-
Small Scale income generating enterprises	-	-	-	-	-	-	-	-

TOTAL	-	-	-	-	-	-	-	-

B. DETAILS OF ON FARMTRIAL CARRIED OUT ON FARMERS' FIELD

A. & B. Technology Assessment/Refinement

OFT – 1 :- GROUNDNUT

1) Title :-Management of whitegrub in groundnut

2) Problem definition: incidence of whitegrub is increase

1. Heavy infestation of whitegrub was found
2. Improper cultivation practices
3. Lack of seed treatment
4. Irregular irrigation
5. Lack of knowledge about pest outbreaks and its management
6. Improper use of FYM (without decomposition)

3) Details of technologies selected for assessment/ refinement

Category	Source of technology	Technologydetail		
Technology option 1	Farmer	T_1	Farmer practices	Injudicious use of pesticides.
Technology option 2	SAU	T_2	Reco. practices	Recommended dose of Pesticide as chlorpyriphos or quinalphos @ 25 ml/kg seed. Drenching of Chlorpyriphos or quinalphos @ 4 lit/ha as initiation of pest incidence.
Technology option 3		T_3	Refined practices 1	Application of ready mix combination of Imidacloprid 40% + Fipronil 40% @ 2.5 g/kg seed. Drenching of ready mix combination of Imidacloprid 40% + Fipronil 40% @ 250 g/ha as initiation of pest incidence.
		T_4	Refined practices 2	Soil application of *Beauveria bassiana* @ 5 kg/ha

4) Source of Technology :- Junagadh Agricultural University

5) Productionsystemand thematic area :

- Crop grown as Integrated Crop Management system and all agronomical practices adopted commonly.

6) Performance of the Technology assessed / refined with performance indicators

Sr. No	Name of the farmer	Name of the Village	Data on the performance indicators of the technology assessed / refined [Yield (q/ha), per cent plant damage from each plot]							
			T_1		T_2		T_3		T_4	
			% Plant damage	Yield	% Plant damage	Yield	% Plant damage	Yield	% Plant damage	Yield
1	Dangar Ramji Khimajibhai	Nesda	29	15	14	19	4	31	21	20
2	Marvaniya Dhaniben Bhavanbhai	Falla	37	12	16	18	5	27	20	19
3	Chhatrola Jentilal Arjanbhai	Limbuda	36	12	17	15	4	28	23	17
		Average	**34**	**13**	**15.67**	**17.33**	**4.33**	**28.67**	**21.33**	**18.67**

8) Finalrecommendationfor micro level situation: Application of ready mix combination of Imidacloprid 40% + Fipronil 40% @ 2.5 g/kg seed. Drenching of ready mix combination of Imidacloprid 40% + Fipronil 40% @ 250 g/ha as initiation of pest incidence having minimum pest population and highest yield with farmers practices.

9) Constraints identified and feedback for research:

- Time of application cannot identified for drenching
- High population of sucking pests , incidence of stem rot
- Yield increase as compare to farmers' practices.
- Reduce whitegrub as well as spodoptera infestation.

10) Process of farmer's participation and their reaction: Farmers have good response and they have support for OFT. Recommended practices having found incidence of whitegrub where it is repeated use. However, refinement 1 is very effective treatment for the management of whitegrub and highest yield.

11) Results of On Farm Trials

Crop/ enter-prise	Farm-ing situ-ation	Prob-lem Diag-nosed	Title of OFT	No. of trials *	Technology Assessed	Parameters of assessment	Data on the parameter Q/ha	
1	2	3	4	5	6	7	8	
Ground nut	Irri-gated	IPM	Management of whitegrub in groundnut	3	Use of balance fertilizers	Per cent plant damage from each plot and yield (q/ha)	T_1	13
							T_2	17.33
							T_3	28.67
							T_4	18.67

Crop/ enterprise	**Results of assessment**	**Feedback from the farmer**	**Any refinement done**	**Justificationforrefinement**
1	9	10	11	12
Groundnut	Application of ready mix combination of Imidacloprid 40% + Fipronil 40% @ 2.5 g/kg seed. Drenching of ready mix combination of Imidacloprid 40% + Fipronil 40% @ 250 g/ha as initiation of pest incidence having minimum pest population and highest yield with farmers practices.	Farmers have good response and they have support for OFT. Recommended practices having found incidence of whitegrub where it is repeated use. However, refinement 1 is very effective treatment for the management of whitegrub and highest yield.	Application of ready mix combination of Imidacloprid 40% + Fipronil 40% @ 2.5 g/kg seed. And/or Drenching of ready mix combination of Imidacloprid 40% + Fipronil 40% @ 250 g/ha as initiation of pest incidence.	It is necessary against outbreak of pest and heavy infestation. Also resistance developed against conventional insecticide

Crop/ enterprise	**Technology Assessed / Refined**		***Production kg/ha**	**Input cost Rs./ha**	**Grossreturn Rs./ha (Rate 47.50/kg**	**NetReturn (Profit) in Rs. / ha**	**BC Ratio (* only OFT inputcost base)**
1	**13**		**14**			**15**	**16**
Groundnut	T_1	Injudicious use of pesticides.	1300	3200	58500	55300	17.28
	T_2	Recommended dose of Pesticide as chlorpyriphos or quinalphos @ 25 ml/kg seed. Drenching of Chlorpyriphos or quinalphos @ 4 lit/ha as initiation of pest incidence.	1733	900	77985	77085	85.65
	T_3	Application of ready mix combination of Imidacloprid 40% + Fipronil 40% @ 2.5 g/kg seed. Drenching of ready mix combination of Imidacloprid 40% + Fipronil 40% @ 250 g/ha as initiation of pest incidence.	2867	1400	129015	127615	91.15

	T_4	Soil application of *Beauveria bassiana* @ 5 kg/ha	1867	1000	84015	83015	83.02

OFT – 2:- CUMIN:

1) Title :-Application of *Trichoderma* against wilt disease in cumin

2) Problemdefinition :

- Low plant population
- Severe Disease problems
- High dew frost
- Heavy irrigation used for long time
- Lack of knowledge for use of recommended control measure

3) Detalis fo technologies for assessment/ ferinement

Category	Source of technology	Technologoy details		
Technology option 1	Farmer	T_1	Farmer practices	No use of trichoderma or fungicide at the time of sowing. But they use fungicides *viz.,* carbendazim, hexaconazole, difenconazole, fosetyl-AL, tebuconazole, propiconazole, tridemorph, etc after of initiation of diseases.
Technology option 2	Department of Plant Pathology, JAU, Junagadh	T_2	Reco. practices	Application of *Trichoderma* @ 5 kg/ha along with FYM @ 1 tonn/ha at the time of sowing with the help of multipurpose seed drill.
Technology option 3		T_3	Refined practices	Application of *Trichoderma* @ 5 kg/ha along with FYM @ 1 tonn/ha by broadcasting method at 15 days after germination.

4) Source of Technology:- Junagadh Agricultural University

5) Productionsystem : Irrigated, *rabi* crop, Integrated disease management

6) Thematic area : Management of wilt diseases of cumin

7) Performance of the Technology assessed / refined with performance indicators

Far-mer No	Name of the farmer	Name of the Village	Data on the performance indicators of the technology assessed / refined					
			TechnologyOption 1		TechnologyOption 2		TechnologyOption 3	
			% Plant infestation	Yield (q/ha)	% Plant infestation	Yield (q/ha)	% Plant infestation	Yield (q/ha)
1	Jadeja Hematsang Samatsang	Khijdad	49	7	24	12.2	22	12.6
2	Kapuriya Bhikhubha Ambabhai	Sortha	53	7.4	18	12.7	19	11.9
3	Mungara Nanjibhai Arjanbhai	Katada	56	6.3	22	12	24	13
		Average	**52.67**	**6.9**	**21.33**	**12.3**	**21.67**	**12.5**

8) Finalrecommendationfor micro level situation: Concluded after completion of the OFT

9) Constraints identified and feedback forresearch :

10) Process of farmers participation and their reaction:

11) Results of On Farm Trials

Crop/ enter-prise	Farm-ing situ-ation	Prob-lem Diag-nosed	Title of OFT	No. of trials *	Technology Assessed	Parameters of assessment	Data on the parameter (q/ha)

1	2	3	4	5	6	7	8	
Cumin	Irrigated	cumin wilt	Application of *Trichoderma* against wilt disease in cumin	3	Application of *Trichoderma* @ 5 kg/ha along with FYM @ 1 tonn/ha by broadcasting method at 15 days after germination.	1. Record plant population at 30, 40 and 50 days after germination 2. Record per cent plant infestation within 1x1 m^2 quadrate from each plot 3. Record yield per hectare.	T_1	6.9
							T_2	12.3
							T_3	12.5

Crop/ enterprise	Results of assessment	Feedback from the farmer	Any refinement done	Justificationforrefinement
1	9	10	11	12
Cumin	Application of *Trichoderma* @ 5 kg/ha along with FYM @ 1 tonn/ha by broadcasting method at 15 days after germination.	It is very helpfull for reducing the infestation of wild if trichoderma is apply at sowing time and 15 days after germination	Multiple application of *Trichoderma* is very helpful for soil borne pathogen for wilt disease.	Refinement treatment increase yield 51.04 % and 10.69 % with farmer practices and recommendation, respectively.

Crop/ enterprise	Technology Assessed / Refined	*Production kg/ha	Input cost Rs./ha	Grossreturn Rs./ha	NetReturn (Profit) in Rs. / ha	BC Ratio (* only OFT inputcost base)
1	**13**	**14**			**15**	**16**
Cumin	T_1	690	25500	86250	60750	2.38
	T_2	1230	23000	153750	130750	5.68
	T_3	1250	23000	156250	133250	5.79

OFT – 3 :- OKRA

1) Title: - Management of sucking pest in okra

2) Problem diagnose/ definition:

- Heavy incidence of jassid, thrips, mite found
- Yellowing of leaf and early maturity of okra plants due to heavy incidence of sucking pest
- Improper irrigation
- No adoption of recommended practices

3) Details of technologies selected for assessment/ refinement

Category	Source of technology	Technologydetail		
Technology option 1	Farmer	T_1	Farmer practices	**Injudicious of insecticides (Spray insecticides at weekly interval)**
Technology option 2	SAU	T_2	Reco. practices	Use of bio-pesticides (*Beauveria bassiana*@ 5 g/lit of water)
Technology option 3		T_3	Refined practices 1	Alternate spray of *Bearuveria bassiana* @ 5 g/lit of water and thiacloprid 48% SC @ 0.096% at 15 days interval

Technology option 4		T_4	Refined practices 2	Seed treatment with thiomethoxam 35% FS @ 6 ml/kg seed followed by foliar application of *Beuveria bassiana* at 15 days interval starting from 30 days after sowing.

4) Source of technology: Junagadh Agricultural University

5) Production system: Irrigated crop with Integrated Crop Management**,**

6) Thematic area : Integrated Pest Management

7) Performance of the Technology assessed / refined with performance indicators

Sr. No.	Name of the farmer	Name of the Village	Data on the performance indicators of the technology assessed / refined [Yield (q/ha), No. of sucking pests per 1x1 m^2 quadrate]																			
			T_1					T_2					T_3					T_4				
			J	T	W	M	Y	J	T	W	M	Y	J	T	W	M	Y	J	T	W	M	Y
1	Padaliiya Rajeshbhai Govindbhai	Hadiyana	14	9	12	8	49	8	8	7	9	51	1	3	3	1	59	5	3	4	3	56
2	Bhalodiya Amarshibhai Nanjibhai	Nathuvadla	13	7	13	6	48	7	9	7	11	50	2	3	2	1	61	5	4	3	5	58
3	Sonara Keshubhai Arjanbhai	Vavadi	11	7	16	9	53	7	10	8	11	52	2	2	2	2	64	4	3	2	4	60
		Average	**12.67**	**7.67**	**13.67**	**7.67**	**50.00**	**7.33**	**9.00**	**7.33**	**10.33**	**51.00**	**1.67**	**2.67**	**2.33**	**1.33**	**61.33**	**4.67**	**3.33**	**3.00**	**4.00**	**58.00**

N.B.:- J=Jassid, T=Thrips, W=Whitefly, M=Mite and Y=Yield (Yellow vein mosaic was not foudn in any plot)

8) Finalrecommendationfor micro level situation: Alternate spray of Bearuveria bassiana @ 5 g/lit of water and thiacloprid 48% SC @ 0.096% at 15 days interval reduced sucking pest population and remain higher in yield.

9) Constraints identified and feedback for research:

- Lack of knowledge about bio-control product
- Lack of pest identification
- No knowledge about the use of particular pesticides for the control of sucking pest resulted the development of resistance in the pest
- Use of higher dose of insecticide
- Improper irrigation
- Not adopting recommended schedule for spraying insecticides
- Farmer spray insecticide as per instructions given by pesticides retailer
- Lack of knowledge about fertilizer and pesticides

10) Process of farmersparticipation and their reaction: Satisfactory

11) Results of On Farm Trials

Crop/ enter-prise	Farm-ing situ-ation	Prob-lem Diag-nosed	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter (Yield Q/ha)	
1	2	3	4	5	6	7	8	
Okra	Rainfed farming	Incidence sucking pest in okra	Management of sucking pest in okra	3	Management of sucking pest in okra	Yield (q/ha), No. of sucking pests on three leaves per 1x1 m^2 quadrate	T_1	50
							T_2	51
							T_3	61.33
							T_4	58

Crop/ enterprise	Results of assessment	Feedback from the farmer	Any refinement done	Justificationforrefinement

1	9	10	11	12
Okra	Alternate spray of *Bearuveria bassiana* @ 5 g/lit of water and thiacloprid 48% SC @ 0.096% at 15 days interval reduced sucking pest population and remain higher in yield.	T3 is very effective for longer period, and also low residue effect	Use of new, old and bio control agent	Refinement treatment increase yield 23.53, 18.87 and 5.0 % with T_1, T_2 and T_4, respectively.

Crop/ enterprise	Technology Assessed / Refined		Production kg/ha	Inputcost Rs./ha	Grossreturn Rs./ha	NetReturn (Profit) in Rs. / ha	BC Ratio
1	**13**		**14**	**15**	**16**	**117**	**18**
Okra	T_1	Farmer practices	5000	37000	110000	73000	1.97
	T_2	Reco. practices	5100	29500	112200	82700	2.80
	T_3	Refined practices 1	6133	30000	134933.3	104933.3	3.50
	T_4	Refined practices 2	5800	30000	127600	97600	3.25

N.B.:- Average Rs.22/kg of okra were calculated

<u>OFT – 4:- Mango Pickle</u>:

1) Title :-Effect of salt and oil on spoilage of mango pickle

2) Problemdefinition :

- Lack of quality in pickle (soft and slippery)
- Spoilage of pickles
- Lack of knowledge about use of oil quantity
- High cost of production
- Lack of knowledge for proper method of preparation

3) Details of technologies for assessment/ refinement

Category	Source of technology	Technologoy details		
Technology option 1	Farmer	T_1	Farmer practices	Salt 12% (120 gm) + Oil 800ml/ kg mango
Technology option 2	Department of Plant Pathology, JAU, Junagadh	T_2	Reco. practices	Salt 15% (150 gm) + Oil 250ml/ kg mango + acitic acid 5 ml
Technology option 3		T_3	Refined practices	Salt 20% (200 gm) + Oil 200ml/ kg mango + acitic acid 7 ml

4) Source of Technology:- State Agricultural University

5) Productionsystem :

Salt, Oil and acitic acid use as per above treatment. However, Common ingredients use for all treatments:- Mango 1 kg, turmeric powder 5 gm, jaggari/sugar 600 gm, fenugreek 50 gm, mustard 30 gm, asafoetida (hing) 5 gm, coriander 30 gm, funnel 30 gm,red chilly powder 30 gm.

6) Thematic area : Spoilage on mango pickles

7) Performance of the Technology assessed / refined with performance indicators

Farmer No. for OFT	Total No. of Farmers for OLT	Name of Village	Data on Performance indicator of the technology assessed/ refined				
			Sr. No.	Data/Observation on performance indicator	T_1	T_2	T_3
3	27	Mansar	1	Self Life	180 Days	180 Days	180 Days
		Kalyanpur	2	Cost saving (Rs.)	-	31%	34%

		Karana	3	Organo Laptic Test			
			a	colour	3.03	4.19	4.72
			b	Texture	3.58	4.14	4.58
			c	Test	3.25	4.14	4.81
			d	Overall acceptance	0	0	√

8) Finalrecommendationfor micro level situation:

Ingredients use for all treatments:- Mango 1 kg, turmeric powder 5 gm, jaggari/sugar 600 gm, fenugreek 50 gm, mustard 30 gm, asafoetida (hing) 5 gm, coriander 30 gm, funnel 30 gm, red chilly powder 30 gm. Along with Salt 20% (200 gm) + Oil 200 ml + acitic acid 7 ml is proved very cost effective and low fat with good taste.

9) Constraints identified and feedback forresearch :

10) Process of farmers participation and their reaction:

Farm women appreciate with this test and implemented for future use. It is very useful for empowering the rural women and cost effective on large scale production.

<u>OFT – 5 :- HOME SCIENCE</u> (Solar Cooker):

1) Title :- Comparison of solar cooker with traditional cooking system

2) Problem definition:

1. High cost of fuel (gas).
2. Air pollution due to firewood burning
3. Lack of knowledge about technology
4. Lack of skill
5. Parasibility of food products
6. Time consuming process

3) Details of technologies selected for assessment/ refinement

3.1) Mango murbba

Category	Source of technology	Technologydetail		
Technologyoption 1	Farmer	T_1	Farmer practices	Preparation by traditional method sunlight heat (Sun drying)
Technologyoption 2	SAU	T_2	Reco. practices	Preparation by (Chula/Gas)
Technologyoption 3		T_3	Refined practices	Preparation by solar cooker

3.2) Sweet potato, sweet corn and roasted & salted groundnut seed

Category	Source of technology	Technologydetail		
Technologyoption 1	Farmer	T_1	Farmer practices	Preparation by traditional method (Chulha)
Technologyoption 2	SAU	T_2	Reco. practices	Preparation by LPG Gas
Technologyoption 3		T_3	Refined practices	Preparation by solar cooker

4) Source of Technology :- State Agricultural University

5) Productionsystemand thematic area :

- **(Mango murbba)** :- Preparation of murbba from unripe mango. Mango slices in small pieces and add same quantity of sugar in it. One tea spoon turmeric, and garam masala. Then cook it with above three method.
- **(Sweet Potato/ Sweet corn)**:- Take a pan and put the sweet potato/sweet corn in it and fill up water up to deep level, add salt as per required quantity.
- **(Roasted & salted groundnut)** :- Take 1 kg of groundnut seed kernels and pored into water, add required quantity of salt and kept for 30 minutes. Then all dry it on paper or cloth. After 2-3 hours drying proceed with above three method for roast it.
- Data recorded on time of consumption, fuel consumption, cost saving, keeping quality and organolactic test *viz*., colour, taste (sweetness), texture, consistency, overall acceptance etc.

6) Performance of the Technology assessed / refined with performance indicators

6.1 Mango murbba

Farmer No. for OFT	Total No. of Farmers for OLT	Name of Village	Data on Performance indicator of the technology assessed/ refined				
			Sr. No.	Data/Observation on performance indicator	T_1	T_2	T_3
					Sunlight Heat	Chula/Gas Heat	Solar Cooker
4	36	Mavapar	1	Time Consumption	36 hrs	40 Min.	7 hrs
		Limbuda	2	Fuel consu-mption	0	80 g gas	0
			3	Cost saving	0	12.6 %	20.7 %
			4	Organo Laptic Test			
				Taste	4.14	4.58	5.94
				Texture	5.31	3.75	5.81
				Consistency	4.89	4.97	5.92
				Colour	5.25	3.50	5.31
				Overall acceptance			√
			5	Keeping quality	180*	180*	180*

* Observation was noted up to 180 days for purpose of OFT. However, it is better for 365 days.

6.2 Sweet Potato

Farmer No. for OFT	Total No. of Farmers for OLT	Name of Village	Data on Performance indicator of the technology assessed/ refined				
			Sr. No.	Data/Observation on performance indicator	T_1	T_2	T_3
					Preparation by traditional method (Chulha)	Preparation by LPG Gas	Preparation by solar cooker
4	36	Mavapar	1	Time Consumption	40 Min	50 Min	180 Min
		Limbuda	2	Fuel consumption	2.5 kg fire wood	100 gm gas	0
			3	Cost (Rs.)	21.25	20.73	0.00
			4	Organo Laptic Test			
				Taste	4.08	5.14	5.70
				Consistency	4.0	4.97	6.14
				Colour	4.60	4.78	4.23
				Overall acceptance	0	0	√

6.3 Sweet Corn

Farmer No. for OFT	Total No. of Farmers for OLT	Name of Village	Data on Performance indicator of the technology assessed/ refined				
			Sr. No.	Data/Observation on performance indicator	T_1 Preparation by traditional method (Chulha)	T_2 Preparation by LPG Gas	T_3 Preparation by solar cooker
4	36	Mavapar	1	Time Consumption	25 Min	30 Min	90 Min
		Limbuda	2	Fuel consumption	1.5 kg fire wood	60 gm gas	0
			3	Cost (Rs.)	13.06	12.43	0.00
			4	Organo Laptic Test			
				Taste	4.74	5.11	5.08
				Consistency	3.96	4.94	5.65
				Colour	4.05	4.85	4.85
				Overall acceptance	0	0	√

6.4 Khari Sing

Farmer No. for OFT	Total No. of Farmers for OLT	Name of Village	Data on Performance indicator of the technology assessed/ refined				
			Sr. No.	Data/Observation on performance indicator	T_1 Preparation by traditional method (Chulha)	T_2 Preparation by LPG Gas	T_3 Preparation by solar cooker
4	36	Mavapar	1	Time Consumption	45 Min	60 Min	300 Min
		Limbuda	2	Fuel consumption	3 kg fire wood	90 gm	0
			3	Cost (Rs.)	22.81	24.88	0.00
			4	Organo Laptic Test			
				Taste	5.08	5.15	6.03
				Consistency	4.50	5.23	5.77
				Colour	5.10	5.09	5.25
				Overall acceptance	0	0	√

8) Finalrecommendationfor micro level situation: Mango murba, sweet corn, sweet potato and khari sing prepared with solar cooker was found acceptable.

9) Constraints identified and feedback for research:

High time consuming in sun drying method. However, high fuel consumption in gas and Chula method.

10) Process of farmers participation and their reaction: Refinemenent treatment of solar cooker found low time consumption and fuelless with lower movement as compare to farmers practices and sundrying method. There is no any change in keeping quality. Both the treatment sundrying and solar cooker found also cost less. Organolactic test having higher acceptance for solar cooker. They satisfied with this trial.

11) Results of On Farm Trials

Crop/ enter-prise	Farm-ing situ-ation	Prob-lem Diag-nosed	Title of OFT	No. of trials*	Technol ogy Assesse d	Parameters of assessment	Data on the parameter (per cent overll acceptance	
1	2	3	4	5	6	7	8	
Solar cooker	Murbb a, sweet potato sweet corn, khari sing	Energy consum ption	Comparison of solar cooker with traditional cooking system	4	Solalr cooker	time consumption, fuel consumption, cost saving, keeping quality and organolactic test *viz*., colour, taste (sweetness), texture, consistency, overall acceptance	T_1	-
							T_2	-
							T_3	√

Crop/ enterprise	Results of assessment	Feedback from the farmer	Any refinement done	Justificationforrefinement
1	9	10	11	12
Solar cooker	Refinemenent treatment of solar cooker found low time consumption and fule less with lower movement as compare to farmers practices and sundrying method. There is no any change in keeping quality. Both the treatment sundrying and solar cooker found also cost less. Organolactic test having higher acceptance for solar cooker. They satisfied with this trial.	Farm women having accepted solar cooker and it is very testy in organo lactic test. Overall acceptance is also high of solar cooker in all product preparation.	Use of solar cooker	Use of solar cooker improve quality and reduce drudgery, time & fuel comsumption

Crop/ enterprise	Technology Assessed / Refined	*Production kg/ha	Input cost Rs./ha				Grossreturn Rs./ha	NetReturn (Profit) in Rs. / ha	BC Ratio (* only OFT inputcost base)
			Murba	Sweet potato	sweet corn	khari sing			
1	13	14	15				16	17	18
Solar cooker	T_1 - Farmers Practice:- Preparation by sunlight heat (Sun drying)		264	155	141	555			
	T_2 - Improved practices:- Preparation by traditional method (Chula/Gas)		248	140	132	544			
	T_3 - Refined Practices:- Preparation by solar cooker		248	120	120	520			

OFT – 6:- WHEAT:

1) Title :-Nutrient management in wheat crop

2) Problemdefinition :

- **Low productivity of wheat**
- Heavy irrigation used for long time
- Lack of knowledge for use of recommended dose of fertilizer

3) Detalis fo technologies for assessment/ ferinement

Category	Source of technology	Technologoy details		
Technology option 1	Farmer	T_1	Farmer practices	Injudicious use of fertilizer (200 N - 90 P_2O_5 - 0 K_2O).
Technology option 2	Department of Plant Pathology, JAU, Junagadh	T_2	Reco. practices	Recommended dose of fertilizer (120 N - 60 P_2O_5 - 40 K_2O) + $ZnSO_4$ @ 25 kg/ha
Technology option 3		T_3	Refined practices	T_2 + two spay of multi mix micronutrient @ 30 g/10 lit of water at 30, and 45 days after germination

4) Source of Technology:- Junagadh Agricultural University

5) Productionsystem : Irrigated, *rabi* crop

6) Thematic area : Integrated nutrient Management in wheat

7) Performance of the Technology assessed / refined with performance indicators

The refined practice of nutrient management had higher yield (47.50 q/ha) as compared to other treatments of nutrient management.

Far-mer No	Name of the farmer	Name of the Village	Data on the performance indicators of the technology assessed / refined (Yield Kg.ha)		
			TechnologyOption 1	TechnologyOption 2	TechnologyOption 3
1	Vachhani Mahendrabhai Ramjibhai	Lalpur	42.50	44.38	48.75
2	Bhimani Bhagvanjibhai Dharamsibhai	Kunad	43.75	45.31	50.00
3	Kapuriya Damjibhai Parshotambhai	Nagpur	37.50	39.06	43.75
		Average	**41.25**	**42.92**	**47.50**

8) Finalrecommendationfor micro level situation: The refined practice of nutrient management had higher yield (47.50 q/ha) as compared to other treatments of nutrient management.

9) Constraints identified and feedback forresearch : Grain quality is good

10) Process of farmersparticipation and their reaction: Farmers are ready to adopt the refined practice due to qualitative higher yield.

11) Results of On Farm Trials

Crop/ enter-prise	Farm-ing situ-ation	Prob-lem Diag-nosed	Title of OFT	No. of trials *	Technology Assessed	Parameters of assessment	Data on the parameter (q/ha)	
1	2	3	4	5	6	7	8	
Wheat	Irrigated	Low productivity	Nutrient management in wheat crop	3	Recommended dose of fertilizer (120 N - 60 P_2O_5 - 40 K_2O) + $ZnSO_4$ @ 25 kg/ha + two spay of multi mix micronutrient @ 30 g/10 lit of water at 30, and 45 days after germination	Grain yield	T_1	41.25
							T_2	42.92
							T_3	47.50

Crop/ enterprise	Results of assessment	Feedback from the farmer	Any refinement done	Justificationforrefinement
1	9	10	11	12
Wheat	Recommended dose of fertilizer (120 N - 60 P_2O_5 - 40 K_2O) + $ZnSO_4$ @ 25 kg/ha+ two spay of multi mix micronutrient @ 30 g/10 lit of water at 30, and 45 days after germination	Quality of grain is good, and Yield was increased	Refined treatment increased yield up to 10.73% & 15.22 % over recommended practice and farmers practice respectively	Refined treatment increased yield up to 10.73% & 15.22 % over recommended practice and farmers practice respectively

Crop/ enterprise	Technology Assessed / Refined	*Production kg/ha	Input cost Rs./ha	Grossreturn Rs./ha	NetReturn (Profit) in Rs. / ha	BC Ratio (* only OFT inputcost base)
1	**13**	**14**			**15**	**16**
Cumin	T_1	4125	32599.5	80437.5	47838	2.47
	T_2	4292	32106	83694	51588	2.61
	T_3	4750	31100	92625	61525	2.98

OFT-7

Title : Growth retardation due to over stocking of fish species in ponds/reservoirs

Objective: To increase overall production of fish by increasing fish growth.

Experimental Animal : Indian Major Carp Species

Treatments :

1. Fish farmers practices : Over stocking of fish species (1,25,000 to 1,50,000 fingerlings per hector
2. **Recommendation :** 75,000 to 80,000 fingerlings per hector stocking density
3. **Refinement** : 1,00,000 fingerlings per hector stocking density

No. of Replication :- 3 (Farmers)

Observations :-

1. Growth development (Length x width x weight) at regular interval
2. Total No. of fish (approximately) survive in the pond.
3. Total production (in kg.)

Result :- The OFT could not be proforme due to late heavy rainfall and stocked seed material washed out due to overflow of pond and seed material was not available thereafter.

OFT-8

Title : Low yield of fish

Objective: To increase growth and total yield of fish by application of organic and inorganic fertilizer in pond.

Problem: Due to insufficient live food in pond at the time of stalking the growth become slow at earlier stage

Intervention: Due to manuaring or applicaton of organic and inorganic fertilizer, before stocking, th eproductivity of pond will incease and suficient live fee (micro algae, planktons, diatons, etc.)containing high protein level, increase the fish body growth.

Treatments :

1. Farmers Practices
2. Application of organic manure (Cow dung@ 10 tonns/ha at three split. (***Recommendation*****)**
3. Organic manure @ 5 tonn/ha + urea @ 50 kg/ha, SSP @ 250 kg/ha, MOP @ 40 kg/ha in three split at monthly interval (***Refinement*****)**

No. of Replication :- 3 (Farmers)

Observations :-

1. Measure Growth rate (size & weight of fish) at monthly interval
2. Total production (in kg.)

Result :- The OFT could not be proforme due to late heavy rainfall and stocked seed material washed out due to overflow of pond and seed material was not available thereafter.

3.2 ACHIEVEMENTS OF FRONTLINE DEMONSTRATIONS

a. Follow-up for results of FLDs implemented during previous years

List of technologies demonstrated during previousyearand popularized during 2014-15 and recommended for large scaleadoption in the district

Sr. No	Crop/ Enterprise	Thematic Area*	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
					No. of villages	No. of farmers	Area in ha
	Kharif						
1	Cotton	IPM	IPM	Field/Farm Day, Training, Field Demonstrations,Radio/ TV programmes,	05	25	10
2	Groundnut (WG)	IPM	IPM(White Grub management)		04	25	10
3	Groundnut (NPV)	IPM	IPM(NPV)		01	05	02
4	Groundnut (Trich)	IDM	IDM(Trichoderma)		02	05	02
5	Brinjal	IPM	IPM		03	05	02
6	Chilly	IPM	IPM		02	05	02
7	Wheat	Variety-INM	Variety-INM		10	20	10
	Rabi						

8	Cumin	IDM-Variety	IDM-Variety		05	10	04
9	Chickpea	IPM-Variety	IPM-Variety		04	15	06
	Summer						
10	Pearl Millet	Variety	Variety		02	10	04
11	Green Gram	Variety	Variety		04	10	04

** Thematic areas as given in Table 3.1 (A1 and A2)*

b. Details of FLDs implemented during 2014-15 (Information is to be furnished in the following three tables for each category i.e. cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.)

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
Kharif				2014-15						
1	Cotton	IPM	IPM		10	10	02	23	25	-
2	Groundnut (WG)	IPM	IPM(White Grub management)		10	10	02	23	25	-
3	Groundnut (NPV)	IPM	IPM (NPV)		02	02	0	5	05	-
4	Groundnut (Trich)	IDM	IDM (Trichoderma)		02	02	04	01	05	-
5	Brinjal	IPM	IPM		02	02	02	03	05	-
6	Chilly	IPM	IPM		02	02	0	05	05	-
Rabi				2014-15						
7	Wheat	Variety-INM	Variety-INM		10	10	02	18	20	-
8	Cumin	IDM-Variety	IDM-Variety		04	04	02	08	10	-
9	Chickpea	IPM-Variety	IPM-Variety		06	06	02	13	15	-
Summer				2014-15						
10	Pearl Millet	Variety	Variety		04	04	0	10	10	-
11	Green Gram	Variety	Variety		04	04	0	10	10	-

Details of farming situation

Crop	Season	Farmingsituation (RF/Irrigated)	Soiltype	Status of soil			Previouscrop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Cotton	Kharif	Irrigated	MB	M	M	H	G'nut/Cotton	Jun-July	Jan-Feb		
Groundnut (WG)		RF	MB	M	M	H	Til/ g'nut	Jun-July	Oct-Nov		
Groundnut (NPV)		RF	MB	M	M	H	Til/ g'nut	Jun-July	Oct-Nov		
Groundnut (Trich)		RF	MB	M	M	H	Til/ g'nut	Jun-July	Oct-Nov		
Brinjal		Irrigated	MB	M	M	H	Cotton	Aug	Feb		
Chilly		Irrigated	MB	M	M	H	Wheat	Jul-Aug	Feb-Mar		
Wheat	Rabi	Irrigated	MB	M	M	H	G'nut	Oct-Nov	Feb-Mar		
Cumin		Irrigated	MB	M	M	H	G'nut	Oct-Nov	Feb-Mar		
Gram		Irrigated	MB	M	M	H	G'nut	Oct-Nov	Feb-Mar		
Pearl Millet	Summer	Irrigated	MB	M	M	H	Cumin	Feb	May		

Green Gram		Irrigated	MB	M	M	H	Wheat	Feb	May		

Performance of FLD

Sl.No.	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Demo	Local
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Cotton	IPM	Bt.	25	10	37.5	16.25	24.75	22.22	11.39	24.75	22.22
2	Groundnut (WG)	IPM(White Grub management)	GG-20	25	10	31.25	6.25	18.0	16.23	10.95	18.0	16.23
3	Groundnut (NPV)	IPM(NPV)	GG-20	05	02	28.75	21.25	24.75	22.13	11.93	24.75	22.13
4	Groundnut (Trich)	IDM(Trichoderma)	GG-20	05	02	25.0	16.25	19.50	17.25	13.15	19.50	17.25
5	Brinjal	IPM	Private	05	02	337.5	325.0	329.75	305.25	8.03	329.75	305.25
6	Chilly	IPM	Private	05	02	116.25	106.25	111.00	101.75	9.1	111.00	101.75
7	Wheat	Variety-INM	GW-496	20	10	52.5	35.0	43.00	38.22	12.52	43.00	38.22
8	Cumin	IDM-Variety	GC-4	10	04	15.0	6.25	11.63	10.28	13.1	11.63	10.28
9	Chickpea	IPM-Variety	GJG-3	15	06	22.5	13.75	17.78	15.95	11.52	17.78	15.95
10	Pearl Millet	Variety	GHB-538	10	04	Results are awaiting						
11	Green Gram	Variety	GM-4	10	04							

*Component demonstration

Economic Impact (continuation of previous table)

Sl. No.	Crop	Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio (Gross Return / Gross Cost)
		Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
1	2	14	15	16	17	18	19	20
1	Cotton	33008	34160	92813	88880	59805	54720	2.81
2	Groundnut (WG)	26408	27588	72010	64932	45602	37344	2.73
3	Groundnut (NPV)	30460	31520	99000	88500	68540	56980	3.25
4	Groundnut (Trich)	28380	29040	78000	69000	49620	39960	2.75
5	Brinjal	91440	93600	407125	358669	315685	265069	4.45
6	Chilly	66090	68460	263625	228938	197535	160478	3.99
7	Wheat	29515	32745	83850	74527	54335	41782	2.84
8	Cumin	30390	32100	145313	128516	114923	96416	4.78
9	Chickpea	29167	33047	71133	63783	41967	30737	2.44
10	Pearl Millet	-	-	-	-	-	-	-
11	Green Gram	-	-	-	-	-	-	-

NB: Attach few good action photographs with title at the back with pencil

Analytical Review of component demonstrations (details of each component forrainfed / irrigatedsituations tobe givenseparately for each season).

Crop	Season	Component		Farming situation	Average yield (q/ha)	Local check (q/ha)	Percentage increase in productivity over local check
Cotton	Kharif	1. Seed/Variety	-	Irrigated	24.75	22.22	11.39
		2. Bio-fertilizer	-				
		3. Fertilizer management	-				
		4. Plant Protection	Azardirectin, Profenophos, Beuvaria				
		5. Combination of components (Please specify)	-				
G'nut		1. Seed/Variety	GG-20	Rainfed	19.50	17.25	13.15
Tricho		2. Bio-fertilizer					
		3. Fertilizer management					
		4. Plant Protection	Trichoderma				
		5. Combination of components (Please specify)					
G'nut		1. Seed/Variety	GG-20	Rainfed	24.75	22.13	11.93
NPV		2. Bio-fertilizer					
		3. Fertilizer management					
		4. Plant Protection	NPV				
		5. Combination of components (Please specify)					
G'nut		1. Seed/Variety	GG-20	Rainfed	18.00	16.23	10.95
(WG)		2. Bio-fertilizer					
		3. Fertilizer management					
		4. Plant Protection	Chlorpyriphos				
		5. Combination of components (Please specify)					
Brinjal		1. Seed/Variety		Irrigated	329.75	305.25	8.03
		2. Bio-fertilizer					
		3. Fertilizer management					
		4. Plant Protection	Azardirectin, Profenophos, Beuvaria				
		5. Combination of components (Please specify)					
Chilly		1. Seed/Variety		Irrigated	111.00	101.75	9.08
		2. Bio-fertilizer					
		3. Fertilizer management					
		4. Plant Protection	Azardirectin, Profenophos, Beuvaria				
		5. Combination of components (Please specify)					
Wheat		1. Seed/Variety	GW-496	Irrigated	43.00	38.22	12.52
		2. Bio-fertilizer					

		3. Fertilizer management	Micromix G-4				
		4. Plant Protection					
		5. Combination of components (Please specify)					
Cumin		1. Seed/Variety	GC-4	Irrigated	11.63	10.28	13.07
		2. Bio-fertilizer					
		3. Fertilizer management					
		4. Plant Protection	Trichoderma				
		5. Combination of components (Please specify)					
Gram		1. Seed/Variety	GJG-3	Irrigated	17.78	15.95	11.52
		2. Bio-fertilizer					
		3. Fertilizer management					
		4. Plant Protection	NPV				
		5. Combination of components (Please specify)					
Pearl Millet		1. Seed/Variety	GHB-538	Irrigated	Results awaited		
		2. Bio-fertilizer					
		3. Fertilizer management					
		4. Plant Protection					
		5. Combination of components (Please specify)					
Green Gram		1. Seed/Variety	GM-4	Irrigated	Results awaited		
		2. Bio-fertilizer					
		3. Fertilizer management					
		4. Plant Protection					
		5. Combination of components (Please specify)					

Technical Feedback on the demonstrated technologies

Sl. No.	Crop	Technology	Farmers' Feed Back
	Kharif		
1	Cotton	Bt.Cotton IPM/INM	➢ Low cost chemical control for longer time ➢ It prove that prevention is better then cure for pest management ➢ High yielding varieties require additional feed & micronutrient then desi cotton ➢ Biopesticide saves useful insects ➢ Effectiive against sucking and chewing pest
2	Groundnut (Whitegrub)	Pest management	➢ Effective to reduce the damage of white grub ➢ Easy to apply and Low cost
3	G'nut (NPV)	GG-20 NPV	➢ Very effective against spodoptera during low radiation ➢ It is effective as good as chemical pesticides ➢ Easy to application ➢ No hazardious ➢ Low cost
4	G'nut (Trichoderma)	GG-20 Trichoderma	➢ Very effective against stem rot (*Sclerotium rolfsii*) in humid and low temperature (during rainy days)

			➢ It is effective as good as chemical fungicide ➢ Easy to application ➢ No hazardious ➢ Low cost
5	Brinjal	IPM	➢ Biopesticide is eco friently and do not harmful to useful insects ➢ No residual harmful effect ➢ Lower incidence of whitefly as well as fruit and shoot borer
6	Chilli	IPM	➢ Biopesticide is less harmful to health and donot affect to useful insect ➢ The curling of leaf was not found in treated plot
	Rabi		
7	Wheat	Variety GW-366	➢ Seed provided was healthy with good germination ➢ Require termite and stem borerresistant variety. ➢ Good varietyfor Backing, ➢ High tillers, high yield with synchronise maturity ➢ Dark green colour
8	Cumin	Guj. Cum.-4	➢ Diseases resistant variety ➢ High yielding variety ➢ Cheaper to control diseases ➢ Prove that prevention is better then cure in diseases management
9	Chick pea	GJG-3	➢ Good pod formation ➢ High yielding variety ➢ partially wilt resistant variety ➢ It perform as per water management
	Summer		
10	Pearl Millet	Variety GHB-732	➢ Higher yield of grain and fodder ➢ Quality of fodder is good ➢ Good against drought spell ➢ Sweet taste of rotla
11	Green Gram	Variety GM-4	➢ Synchronise maturity ➢ High yielding & Short duration variety ➢ Good colour having high market value ➢ Good test for dal and khichadi making

Farmers' reactions on specific technologies

Sl.No.	Crop	Technology	Farmers' Reaction
	Kharif		
3	Cotton	Bt.Cotton IPM/INM	➢ High yielding varieties require additional feed & micronutrient then desi cotton ➢ Biopesticide saves useful insects ➢ Effectiive against sucking and chewing pest
1	Groundnut	Pest management	➢ Effective to control pod borer ➢ Also reduce the damage of white grub ➢ Easy to apply ➢ Low cost and seed quality improe
5	G'nut (NPV)	GG-20 NPV	➢ Very effective against spodoptera during low radiation ➢ It is effective as good as chemical pesticides ➢ Easy to application ➢ No hazardous ➢ Low cost
4	G'nut (Trichoderma)	GG-20 Trichoderma	➢ Very effective against stem rot (*Sclerotium rolfsii*) in humid and low temperature (during rainy days)

			➢ It is effective as good as chemical fungicide ➢ Easy to application ➢ No hazardous ➢ Low cost
7	Brinjal	IPM	➢ Biopesticide is eco 36riendly and do not harmful to useful insects ➢ No residual harmful effect ➢ Lower incidence of whitefly as well as fruit and shoot borer
8	Chilli	IPM	➢ Biopesticide is less harmful to health and donot affect to useful insect ➢ The curling of leaf was not found in treated plot
	Rabi		
9	Wheat	Variety GW-366	➢ Good variety for Backing, ➢ High tillers, high yield with synchronise maturity ➢ Dark green colour
10	Cumin	Guj. Cum.-4	➢ Diseases resistant variety ➢ High yielding variety
11	Chick pea	GJG-3	➢ Good pod formation ➢ High yielding variety ➢ partially wilt resistant variety ➢ It perform as per water management
	Summer		
6	Pearl Millet	Variety GHB-732	➢ Higher yield of grain and fodder ➢ Quality of fodder is good ➢ Good against drought spell ➢ Sweet taste of rotla
2	Green Gram	Variety GM-4	➢ Synchronise maturity ➢ High yielding & Short duration variety ➢ Good colour having high market value ➢ High feed and fodder value

Extension and Training activities under FLD

Sr. No.	Activity	No. of Activity organised	No. of Participants			Remarks
			Male	Female	Total	
	Cotton					
1	Field days	1	27	8	35	
2	Training for farmers	1	38	4	42	
3	Radio Talk	1				
4	Training for Extension functionaries	1	30		30	
	Groundnut (White grub)					
1	Field days	2	42	20	62	
2	Training for farmers	1	21		21	
3	Radio Talk	1				
4	Training for Extension functionaries	1	32		32	
	Groundnut (NPV)					
1	Field days	3	63	18	81	
2	Training for farmers	1	28	4	32	

3	Radio Talk					
4	Training for Extension functionaries					
	Groundnut (Trichoderma)					
1	Field days	2	42	20	62	
2	Training for farmers	1	21		21	
3	Radio Talk	1				
4	Training for Extension functionaries	1	32		32	
	Brinjal					
1	Field days	1	18	4	22	
2	Training for farmers	1	28	3	31	
3	Radio Talk					
4	Training for Extension functionaries					
	Chilli					
1	Field days	1	27	8	35	
2	Training for farmers	1	38	4	42	
3	Radio Talk	1				
4	Training for Extension functionaries	1	30		30	
	Wheat					
1	Field days	3	56	14	70	
2	Training for farmers	2	36		36	
3	Media coverage (Radio Talk)	1				
4	Training for Extension functionaries	1	27		27	
	Cumin					
1	Field days	2	36	8	44	
2	Training for farmers	1	20		20	
3	Media coverage (Radio Talk)	1				
4	Training for Extension functionaries					
	Chick Pea					
1	Field days	1	21	5	26	
2	Training for farmers	1	24	3	27	
3	Radio Talk					
4	Training for Extension functionaries					
	Pearl Millet					
1	Field days	1	18	3	21	
2	Training for farmers	1	17	5	22	
3	Media coverage (Radio Talk)					
4	Training for Extension functionaries					
	Green Gram					
1	Field days	1	18	4	22	
2	Training for farmers	1	28	3	31	
3	Radio Talk					
4	Training for Extension functionaries					

c. Details of FLD on Enterprises

(i) Farm Implements

Name of the implement	crop	No. of farmers	Area (ha)	Performance parameters / indicators	* Data on parameter in relation to technology demonstrated		% change in the parameter	Remarks
					Demon.	Local check		

Tractor Mounted Sprayer	Groundnut	320	10					
Blower	Orchard	142	10					
Coton Shredder	Cotton	470	10					
Rotavator	Cotton	180	5	-	-	-	-	-
	Wheat	290	5	-	-	-	-	-
Laser Land Levelor	Open field	270	10					
Mini Tractor Implement	Groundnut	130	5					
Chalf Cutter	Fodder	180	5					
Solar Cooker		170	10	-	-	-	-	-
Groundnut Digger	Groundnut	320	3					
Reaper	Sorghum	420	3					

** Field efficiency, labour saving etc.*

(ii) Livestock, Fisheries, etc.

Livestock

Category	Thematic area	Name of the technology demonstrated	No. of KVKs	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
						Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Dairy																		
Cow																		
Buffalo																		
Poultry																		
Rabbitry																		
Pigerry																		
Sheep and goat																		
Duckery																		
Others (pl.specify)																		
Total																		

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

** BCR= GROSS RETURN/GROSS COST

Fisheries

Category	Thematic area	Name of the technology demonstrated	No. of KVKs	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
						Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Common carps																		
Mussels																		
Ornamental fishes																		
Others (pl.specify)																		
		Total																

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

** BCR= GROSS RETURN/GROSS COST

Other enterprises

Category	Name of the technology demonstrated	No. of KVKs	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.) or Rs./unit				*Economics of check (Rs.) or Rs./unit			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Oyster mushroom																	
Button mushroom																	
Vermicompost																	
Sericulture																	
Apiculture																	
Others (pl.specify)																	
Total																	

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

** BCR= GROSS RETURN/GROSS COST

Women empowerment

Category	Name of technology	No. of KVKs	No. of demonstrations	Name of observations	Demonstration	Check
Women						
Pregnant women	Nutritional balance	Jamnagar		Weight, haemogloin level		
Adolescent Girl	Dietary pattern and nutritional	Jamnagar		Weight, Haemoglobin level		
Other women	Drudgery reduction, value addition	Jamnagar	3	OLT; Time, Fuel consumption		
Children						
Neonats	Nutrition balance	Jamnagar		Weight		
Infants	-"-	Jamnagar		Weight		
Children	Nutrition balance	Jamnagar		Weight		

Farm implements and machinery

Name of the implement	Crop	Name of the technology demonstrated	No. of KVKs	No. of Farmer	Area (ha)	Filed observation (output/man hour)		% change in major parameter	Labor reduction (man days)				Cost reduction (Rs./ha or Rs./Unit ect.)			
						Demonstration	Check									
Tractor Mounted Sprayer	Groundnut			320	10											
Blower	Orchard			142	10											
Coton Shredder	Cotton			470	10											
Rotavator	Cotton			180	5											
	Wheat			290	5											
Laser Land Levelor				270	10											

Mini Tractor Implement	Ground nut			130	5											
Chalf Cutter	Fodder			180	5											
Solar Cooker				170	10											

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	
2	

Farmers' reactions on specific technologies

S. No	Feed Back
1	
2	

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organised	Date	Number of participants	Remarks
1	Field days				
2	Farmers Training				
3	Media coverage				
4	Training for extension functionaries				

3.3 ACHIEVEMENTS ON TRAINING (Including the sponsored and FLD training programmes and other):

A) On Campus

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
(A) Farmers & Farm Women										
I Crop Production										
Weed Management				0			0	0	0	0
Resource Conservation Technologies				0			0	0	0	0
Cropping Systems				0			0	0	0	0
Crop Diversification				0			0	0	0	0
Integrated Farming				0			0	0	0	0
Water management				0			0	0	0	0
Seed production				0			0	0	0	0
Nursery management				0			0	0	0	0
Integrated Crop Management	3	38	0	38	4	0	4	42	0	42
Fodder production				0			0	0	0	0
Production of organic inputs				0			0	0	0	0
	3	38	0	38	4	0	4	42	0	42
II Horticulture										
a) Vegetable Crops										
Production of low volume and high value crops				0			0	0	0	0
Off-season vegetables				0			0	0	0	0
Nursery raising				0			0	0	0	0
Exotic vegetables like Broccoli				0			0	0	0	0
Export potential vegetables				0			0	0	0	0

Grading and standardization				0			0	0	0	0
Protective cultivation (Green Houses, Shade Net etc.)				0			0	0	0	0
b) Fruits										
Training and Pruning				0			0	0	0	0
Layout and Management of Orchards				0			0	0	0	0
Cultivation of Fruit				0			0	0	0	0
Management of young plants/orchards				0			0	0	0	0
Rejuvenation of old orchards				0			0	0	0	0
Export potential fruits				0			0	0	0	0
Micro irrigation systems of orchards				0			0	0	0	0
Plant propagation techniques				0			0	0	0	0
c) Ornamental Plants										
Nursery Management				0			0	0	0	0
Management of potted plants				0			0	0	0	0
Export potential of ornamental plants				0			0	0	0	0
Propagation techniques of Ornamental Plants				0			0	0	0	0
d) Plantation crops										
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
e) Tuber crops										
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
f) Spices										
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
g) Medicinal and Aromatic Plants										
Nursery management				0			0	0	0	0
Production and management technology				0			0	0	0	0
Post harvest technology and value addition				0			0	0	0	0
	0	0	0	0	0	0	0	0	0	0
III Soil Health and Fertility Management										
Soil fertility management				0			0	0	0	0
Soil and Water Conservation				0			0	0	0	0
Integrated Nutrient Management	3	18	17	35	46	14	60	64	31	95
Production and use of organic inputs				0			0	0	0	0
Management of Problematic soils				0			0	0	0	0
Micro nutrient deficiency in crops				0			0	0	0	0
Nutrient Use Efficiency				0			0	0	0	0
Soil and Water Testing	2	48	0	48	31	0	31	79	0	79
	5	66	17	83	77	14	91	143	31	174
IV Livestock Production and Management										

Dairy Management	3	10	253	263	0	10	10	10	263	273
Poultry Management				0			0	0	0	0
Piggery Management				0			0	0	0	0
Rabbit Management				0			0	0	0	0
Disease Management				0			0	0	0	0
Feed management				0			0	0	0	0
Production of quality animal products				0			0	0	0	0
	3	10	253	263	0	10	10	10	263	273
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening				0			0	0	0	0
Design and development of low/minimum cost diet				0			0	0	0	0
Designing and development for high nutrient efficiency diet				0			0	0	0	0
Minimization of nutrient loss in processing				0			0	0	0	0
Gender mainstreaming through SHGs				0			0	0	0	0
Storage loss minimization techniques				0			0	0	0	0
Value addition	3	0	168	168	0	3	3	0	171	171
Income generation activities for empowerment of rural Women				0			0	0	0	0
Location specific drudgery reduction technologies				0			0	0	0	0
Rural Crafts	1	2	25	27	0	8	8	2	33	35
Women and child care	2	0	18	18	0	54	54	0	72	72
	6	2	211	213	0	65	65	2	276	278
VI Agril. Engineering										
Installation and maintenance of micro irrigation systems	1	27	0	27			0	27	0	27
Use of Plastics in farming practices	1	25		25			0	25	0	25
Production of small tools and implements				0			0	0	0	0
Repair and maintenance of farm machinery and implements	1	30		30	35		35	65	0	65
Small scale processing and value addition				0			0	0	0	0
Post Harvest Technology				0			0	0	0	0
	3	82	0	82	35	0	35	117	0	117
VII Plant Protection										
Integrated Pest Management	8	109	96	205	34	142	176	143	238	381
Integrated Disease Management	7	243	22	265	97	30	127	340	52	392
Bio-control of pests and diseases				0			0	0	0	0
Production of bio control agents and bio pesticides	2	116		116	35		35	151	0	151
	17	468	118	586	166	172	338	634	290	924
VIII Fisheries										
Integrated fish farming				0			0	0	0	0
Carp breeding and hatchery management	1	15	7	22			0	15	7	22

Carp fry and fingerling rearing				0			0	0	0	0
Composite fish culture	1	19	8	27			0	19	8	27
Hatchery management and culture of freshwater prawn				0			0	0	0	0
Breeding and culture of ornamental fishes				0			0	0	0	0
Portable plastic carp hatchery				0			0	0	0	0
Pen culture of fish and prawn	1	22		22			0	22	0	22
Shrimp farming				0			0	0	0	0
Edible oyster farming				0			0	0	0	0
Pearl culture				0			0	0	0	0
Fish processing and value addition				0			0	0	0	0
	3	56	15	71	0	0	0	56	15	71
IX Production of Inputs at site										
Seed Production				0			0	0	0	0
Planting material production				0			0	0	0	0
Bio-agents production				0			0	0	0	0
Bio-pesticides production				0			0	0	0	0
Bio-fertilizer production				0			0	0	0	0
Vermi-compost production				0			0	0	0	0
Organic manures production				0			0	0	0	0
Production of fry and fingerlings				0			0	0	0	0
Production of Bee-colonies and wax sheets				0			0	0	0	0
Small tools and implements				0			0	0	0	0
Production of livestock feed and fodder				0			0	0	0	0
Production of Fish feed				0			0	0	0	0
	0	0	0	0	0	0	0	0	0	0
X Capacity Building and Group Dynamics										
Leadership development	1	15		15			0	15	0	15
Group dynamics	1	28		28	5		5	33	0	33
Formation and Management of SHGs				0			0	0	0	0
Mobilization of social capital	1	16		16	7		7	23	0	23
Entrepreneurial development of farmers/youths	1	24		24			0	24	0	24
WTO and IPR issues				0			0	0	0	0
	4	83	0	83	12	0	12	95	0	95
XI Agro-forestry										
Production technologies				0			0	0	0	0
Nursery management				0			0	0	0	0
Integrated Farming Systems				0			0	0	0	0
	0	0	0	0	0	0	0	0	0	0
TOTAL	44	805	614	1419	294	261	555	1099	875	1974
(B) RURAL YOUTH										
Mushroom Production				0			0	0	0	0
Bee-keeping				0			0	0	0	0
Integrated farming				0			0	0	0	0

Seed production				0			0	0	0	0
Production of organic inputs	1	28		28	6		6	34	0	34
Integrated Farming				0			0	0	0	0
Planting material production				0			0	0	0	0
Vermi-culture				0			0	0	0	0
Sericulture				0			0	0	0	0
Protected cultivation of vegetable crops	2	32		32	19		19	51	0	51
Commercial fruit production				0			0	0	0	0
Repair and maintenance of farm machinery and implements				0			0	0	0	0
Nursery Management of Horticulture crops				0			0	0	0	0
Training and pruning of orchards				0			0	0	0	0
Value addition	4	132	124	256	171	230	401	303	354	657
Production of quality animal products				0			0	0	0	0
Dairying				0			0	0	0	0
Sheep and goat rearing				0			0	0	0	0
Quail farming				0			0	0	0	0
Piggery				0			0	0	0	0
Rabbit farming				0			0	0	0	0
Poultry production				0			0	0	0	0
Ornamental fisheries				0			0	0	0	0
Para vets				0			0	0	0	0
Para extension workers				0			0	0	0	0
Composite fish culture				0			0	0	0	0
Freshwater prawn culture				0			0	0	0	0
Shrimp farming				0			0	0	0	0
Pearl culture				0			0	0	0	0
Cold water fisheries				0			0	0	0	0
Fish harvest and processing technology				0			0	0	0	0
Fry and fingerling rearing				0			0	0	0	0
Small scale processing				0			0	0	0	0
Post Harvest Technology				0			0	0	0	0
Tailoring and Stitching				0			0	0	0	0
Rural Crafts				0			0	0	0	0
TOTAL	**7**	**192**	**124**	**316**	**196**	**230**	**426**	**388**	**354**	**742**
(C) Extension Personnel										
Productivity enhancement in field crops				0			0	0	0	0
Integrated Pest Management				0			0	0	0	0
Integrated Nutrient management	1	11	1	12	12		12	23	1	24
Rejuvenation of old orchards				0			0	0	0	0
Protected cultivation technology	1	13	1	14	10		10	23	1	24
Formation and Management of SHGs				0			0	0	0	0
Group Dynamics and farmers organization				0			0	0	0	0

Information networking among farmers				0			0	0	0	0
Capacity building for ICT application				0			0	0	0	0
Care and maintenance of farm machinery and implements				0			0	0	0	0
WTO and IPR issues				0			0	0	0	0
Management in farm animals				0			0	0	0	0
Livestock feed and fodder production				0			0	0	0	0
Household food security				0			0	0	0	0
Women and Child care				0			0	0	0	0
Low cost and nutrient efficient diet designing				0			0	0	0	0
Production and use of organic inputs				0			0	0	0	0
Gender mainstreaming through SHGs				0			0	0	0	0
TOTAL	2	24	2	26	22	0	22	46	2	48
Grand Total	53	1021	740	1761	512	491	1003	1533	1231	2764

B) Off Campus

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
(A) Farmers & Farm Women										
I Crop Production										
Weed Management				0			0	0	0	0
Resource Conservation Technologies	1	30		30			0	30	0	30
Cropping Systems				0			0	0	0	0
Crop Diversification	2	30	30	60			0	30	30	60
Integrated Farming				0			0	0	0	0
Water management	2	70		70	7		7	77	0	77
Seed production				0			0	0	0	0
Nursery management				0			0	0	0	0
Integrated Crop Management	2	44		44	5	7	12	49	7	56
Fodder production				0			0	0	0	0
Production of organic inputs	1	30		30			0	30	0	30
	8	204	30	234	12	7	19	216	37	253
II Horticulture										
a) Vegetable Crops										
Production of low volume and high value crops				0			0	0	0	0
Off-season vegetables				0			0	0	0	0
Nursery raising				0			0	0	0	0
Exotic vegetables like Broccoli				0			0	0	0	0
Export potential vegetables				0			0	0	0	0
Grading and standardization				0			0	0	0	0
Protective cultivation (Green Houses, Shade Net etc.)				0			0	0	0	0
b) Fruits										
Training and Pruning				0			0	0	0	0
Layout and Management of Orchards				0			0	0	0	0

Cultivation of Fruit				0			0	0	0	0
Management of young plants/orchards				0			0	0	0	0
Rejuvenation of old orchards				0			0	0	0	0
Export potential fruits				0			0	0	0	0
Micro irrigation systems of orchards				0			0	0	0	0
Plant propagation techniques				0			0	0	0	0
c) Ornamental Plants										
Nursery Management				0			0	0	0	0
Management of potted plants				0			0	0	0	0
Export potential of ornamental plants				0			0	0	0	0
Propagation techniques of Ornamental Plants				0			0	0	0	0
d) Plantation crops										
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
e) Tuber crops										
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
f) Spices										
Production and Management technology				0			0	0	0	0
Processing and value addition				0			0	0	0	0
g) Medicinal and Aromatic Plants										
Nursery management				0			0	0	0	0
Production and management technology				0			0	0	0	0
Post harvest technology and value addition				0			0	0	0	0
	0	0	0	0	0	0	0	0	0	0
III Soil Health and Fertility Management										
Soil fertility management				0			0	0	0	0
Soil and Water Conservation				0			0	0	0	0
Integrated Nutrient Management	2	265		265	92		92	357	0	357
Production and use of organic inputs				0			0	0	0	0
Management of Problematic soils				0			0	0	0	0
Micro nutrient deficiency in crops				0			0	0	0	0
Nutrient Use Efficiency				0			0	0	0	0
Soil and Water Testing	2	555	20	575	220	10	230	775	30	805
	4	820	20	840	312	10	322	1132	30	1162
IV Livestock Production and Management										
Dairy Management				0			0	0	0	0
Poultry Management				0			0	0	0	0
Piggery Management				0			0	0	0	0
Rabbit Management				0			0	0	0	0
Disease Management				0			0	0	0	0
Feed management				0			0	0	0	0

Production of quality animal products				0			0	0	0	0
	0	0	0	0	0	0	0	0	0	0
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening				0			0	0	0	0
Design and development of low/minimum cost diet	4	15	173	188	2	22	24	17	195	212
Designing and development for high nutrient efficiency diet				0			0	0	0	0
Minimization of nutrient loss in processing	1	0	9	9		3	3	0	12	12
Gender mainstreaming through SHGs				0			0	0	0	0
Storage loss minimization techniques				0			0	0	0	0
Value addition	3		94	94		14	14	0	108	108
Income generation activities for empowerment of rural Women				0			0	0	0	0
Location specific drudgery reduction technologies	3	0	71	71		9	9	0	80	80
Rural Crafts				0			0	0	0	0
Women and child care				0			0	0	0	0
	11	15	347	362	2	48	50	17	395	412
VI Agril. Engineering										
Installation and maintenance of micro irrigation systems	2	25		25	19		19	44	0	44
Use of Plastics in farming practices	2	137	12	149	115	18	133	252	30	282
Production of small tools and implements	1	12	76	88	2	5	7	14	81	95
Repair and maintenance of farm machinery and implements	2	64		64	12		12	76	0	76
Small scale processing and value addition				0			0	0	0	0
Post Harvest Technology				0			0	0	0	0
	7	238	88	326	148	23	171	386	111	497
VII Plant Protection										
Integrated Pest Management				0			0	0	0	0
Integrated Disease Management	4	89	50	139	79	10	89	168	60	228
Bio-control of pests and diseases	9	481	17	498	81	2	83	562	19	581
Production of bio control agents and bio pesticides				0			0	0	0	0
	13	570	67	637	160	12	172	730	79	809
VIII Fisheries										
Integrated fish farming	4	77	6	83	4		4	81	6	87
Carp breeding and hatchery management	1	12	5	17			0	12	5	17
Carp fry and fingerling rearing				0			0	0	0	0
Composite fish culture				0			0	0	0	0
Hatchery management and culture of freshwater prawn				0			0	0	0	0
Breeding and culture of ornamental fishes	1	19	8	27			0	19	8	27
Portable plastic carp hatchery				0			0	0	0	0

Pen culture of fish and prawn	2	43	5	48			0	43	5	48
Shrimp farming				0			0	0	0	0
Edible oyster farming				0			0	0	0	0
Pearl culture				0			0	0	0	0
Fish processing and value addition	2	31	5	36			0	31	5	36
	10	182	29	211	4	0	4	186	29	215
IX Production of Inputs at site										
Seed Production				0			0	0	0	0
Planting material production				0			0	0	0	0
Bio-agents production				0			0	0	0	0
Bio-pesticides production				0			0	0	0	0
Bio-fertilizer production				0			0	0	0	0
Vermi-compost production				0			0	0	0	0
Organic manures production				0			0	0	0	0
Production of fry and fingerlings				0			0	0	0	0
Production of Bee-colonies and wax sheets				0			0	0	0	0
Small tools and implements				0			0	0	0	0
Production of livestock feed and fodder				0			0	0	0	0
Production of Fish feed				0			0	0	0	0
	0	0	0	0	0	0	0	0	0	0
X Capacity Building and Group Dynamics										
Leadership development	1	29		29			0	29	0	29
Group dynamics	1	33		33	7		7	40	0	40
Formation and Management of SHGs				0	7		7	7	0	7
Mobilization of social capital	1	38		38			0	38	0	38
Entrepreneurial development of farmers/youths	1	27		27			0	27	0	27
WTO and IPR issues				0			0	0	0	0
	4	127	0	127	14	0	14	141	0	141
XI Agro-forestry										
Production technologies				0			0	0	0	0
Nursery management				0			0	0	0	0
Integrated Farming Systems				0			0	0	0	0
	0	0	0	0	0	0	0	0	0	0
TOTAL	57	2156	581	2737	652	100	752	2808	681	3489
(B) RURAL YOUTH										
Mushroom Production				0			0	0	0	0
Bee-keeping				0			0	0	0	0
Integrated farming				0			0	0	0	0
Seed production				0			0	0	0	0
Production of organic inputs				0			0	0	0	0
Integrated Farming				0			0	0	0	0
Planting material production				0			0	0	0	0
Vermi-culture				0			0	0	0	0
Sericulture				0			0	0	0	0

Protected cultivation of vegetable crops				0			0	0	0	0
Commercial fruit production				0			0	0	0	0
Repair and maintenance of farm machinery and implements				0			0	0	0	0
Nursery Management of Horticulture crops				0			0	0	0	0
Training and pruning of orchards				0			0	0	0	0
Value addition	1	0	43	43		3	3	0	46	46
Production of quality animal products				0			0	0	0	0
Dairying				0			0	0	0	0
Sheep and goat rearing				0			0	0	0	0
Quail farming				0			0	0	0	0
Piggery				0			0	0	0	0
Rabbit farming				0			0	0	0	0
Poultry production				0			0	0	0	0
Ornamental fisheries				0			0	0	0	0
Para vets				0			0	0	0	0
Para extension workers				0			0	0	0	0
Composite fish culture				0			0	0	0	0
Freshwater prawn culture				0			0	0	0	0
Shrimp farming				0			0	0	0	0
Pearl culture				0			0	0	0	0
Cold water fisheries				0			0	0	0	0
Fish harvest and processing technology				0			0	0	0	0
Fry and fingerling rearing				0			0	0	0	0
Small scale processing				0			0	0	0	0
Post Harvest Technology				0			0	0	0	0
Tailoring and Stitching				0			0	0	0	0
Rural Crafts				0			0	0	0	0
TOTAL	**1**	**0**	**43**	**43**	**0**	**3**	**3**	**0**	**46**	**46**
(C) Extension Personnel										
Productivity enhancement in field crops				0			0	0	0	0
Integrated Pest Management				0			0	0	0	0
Integrated Nutrient management				0			0	0	0	0
Rejuvenation of old orchards				0			0	0	0	0
Protected cultivation technology				0			0	0	0	0
Formation and Management of SHGs				0			0	0	0	0
Group Dynamics and farmers organization				0			0	0	0	0
Information networking among farmers				0			0	0	0	0
Capacity building for ICT application				0			0	0	0	0
Care and maintenance of farm machinery and implements				0			0	0	0	0
WTO and IPR issues				0			0	0	0	0
Management in farm animals				0			0	0	0	0

Livestock feed and fodder production				0			0	0	0	0
Household food security				0			0	0	0	0
Women and Child care				0			0	0	0	0
Low cost and nutrient efficient diet designing				0			0	0	0	0
Production and use of organic inputs				0			0	0	0	0
Gender mainstreaming through SHGs				0			0	0	0	0
TOTAL	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Grand Total	**58**	**2156**	**624**	**2780**	**652**	**103**	**755**	**2808**	**727**	**3535**

C) Consolidatedtable (On and OFF Campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
(A) Farmers & Farm Women										
I Crop Production										
Weed Management	0	0	0	0	0	0	0	0	0	0
Resource Conservation Technologies	1	30	0	30	0	0	0	30	0	30
Cropping Systems	0	0	0	0	0	0	0	0	0	0
Crop Diversification	2	30	30	60	0	0	0	30	30	60
Integrated Farming	0	0	0	0	0	0	0	0	0	0
Water management	2	70	0	70	7	0	7	77	0	77
Seed production	0	0	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0	0	0
Integrated Crop Management	5	82	0	82	9	7	16	91	7	98
Fodder production	0	0	0	0	0	0	0	0	0	0
Production of organic inputs	1	30	0	30	0	0	0	30	0	30
	11	242	30	272	16	7	23	258	37	295
II Horticulture	0	0	0	0	0	0				
a) Vegetable Crops	0	0	0	0	0	0				
Production of low volume and high value crops	0	0	0	0	0	0	0	0	0	0
Off-season vegetables	0	0	0	0	0	0	0	0	0	0
Nursery raising	0	0	0	0	0	0	0	0	0	0
Exotic vegetables like Broccoli	0	0	0	0	0	0	0	0	0	0
Export potential vegetables	0	0	0	0	0	0	0	0	0	0
Grading and standardization	0	0	0	0	0	0	0	0	0	0
Protective cultivation (Green Houses, Shade Net etc.)	0	0	0	0	0	0	0	0	0	0
b) Fruits	0	0	0	0	0	0				
Training and Pruning	0	0	0	0	0	0	0	0	0	0
Layout and Management of Orchards	0	0	0	0	0	0	0	0	0	0
Cultivation of Fruit	0	0	0	0	0	0	0	0	0	0
Management of young plants/orchards	0	0	0	0	0	0	0	0	0	0

Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0
Export potential fruits	0	0	0	0	0	0	0	0	0	0
Micro irrigation systems of orchards	0	0	0	0	0	0	0	0	0	0
Plant propagation techniques	0	0	0	0	0	0	0	0	0	0
c) Ornamental Plants	0	0	0	0	0	0				
Nursery Management	0	0	0	0	0	0	0	0	0	0
Management of potted plants	0	0	0	0	0	0	0	0	0	0
Export potential of ornamental plants	0	0	0	0	0	0	0	0	0	0
Propagation techniques of Ornamental Plants	0	0	0	0	0	0	0	0	0	0
d) Plantation crops	0	0	0	0	0	0				
Production and Management technology	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0
e) Tuber crops	0	0	0	0	0	0				
Production and Management technology	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0
f) Spices	0	0	0	0	0	0				
Production and Management technology	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0
g) Medicinal and Aromatic Plants	0	0	0	0	0	0				
Nursery management	0	0	0	0	0	0	0	0	0	0
Production and management technology	0	0	0	0	0	0	0	0	0	0
Post harvest technology and value addition	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
III Soil Health and Fertility Management	0	0	0	0	0	0				
Soil fertility management	0	0	0	0	0	0	0	0	0	0
Soil and Water Conservation	0	0	0	0	0	0	0	0	0	0
Integrated Nutrient Management	5	283	17	300	138	14	152	421	31	452
Production and use of organic inputs	0	0	0	0	0	0	0	0	0	0
Management of Problematic soils	0	0	0	0	0	0	0	0	0	0
Micro nutrient deficiency in crops	0	0	0	0	0	0	0	0	0	0
Nutrient Use Efficiency	0	0	0	0	0	0	0	0	0	0
Soil and Water Testing	4	603	20	623	251	10	261	854	30	884
	9	886	37	923	389	24	413	1275	61	1336
IV Livestock Production and Management	**0**	0	0	0	0	0				
Dairy Management	3	10	253	263	0	10	10	10	263	273
Poultry Management	0	0	0	0	0	0	0	0	0	0
Piggery Management	0	0	0	0	0	0	0	0	0	0

Rabbit Management	0	0	0	0	0	0	0	0	0	0
Disease Management	0	0	0	0	0	0	0	0	0	0
Feed management	0	0	0	0	0	0	0	0	0	0
Production of quality animal products	0	0	0	0	0	0	0	0	0	0
	3	10	253	263	0	10	10	10	263	273
V Home Science/Women empowerment	0	0	0	0	0	0				
Household food security by kitchen gardening and nutrition gardening	0	0	0	0	0	0	0	0	0	0
Design and development of low/minimum cost diet	4	15	173	188	2	22	24	17	195	212
Designing and development for high nutrient efficiency diet	0	0	0	0	0	0	0	0	0	0
Minimization of nutrient loss in processing	1	0	9	9	0	3	3	0	12	12
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0
Storage loss minimization techniques	0	0	0	0	0	0	0	0	0	0
Value addition	6	0	262	262	0	17	17	0	279	279
Income generation activities for empowerment of rural Women	0	0	0	0	0	0	0	0	0	0
Location specific drudgery reduction technologies	3	0	71	71	0	9	9	0	80	80
Rural Crafts	1	2	25	27	0	8	8	2	33	35
Women and child care	2	0	18	18	0	54	54	0	72	72
	17	17	558	575	2	113	115	19	671	690
VI Agril. Engineering	0	0	0	0	0	0				
Installation and maintenance of micro irrigation systems	3	52	0	52	19	0	19	71	0	71
Use of Plastics in farming practices	3	162	12	174	115	18	133	277	30	307
Production of small tools and implements	1	12	76	88	2	5	7	14	81	95
Repair and maintenance of farm machinery and implements	3	94	0	94	47	0	47	141	0	141
Small scale processing and value addition	0	0	0	0	0	0	0	0	0	0
Post Harvest Technology	0	0	0	0	0	0	0	0	0	0
	10	320	88	408	183	23	206	503	111	614
VII Plant Protection	0	0	0	0	0	0				
Integrated Pest Management	8	109	96	205	34	142	176	143	238	381
Integrated Disease Management	11	332	72	404	176	40	216	508	112	620
Bio-control of pests and diseases	9	481	17	498	81	2	83	562	19	581
Production of bio control agents and bio pesticides	2	116	0	116	35	0	35	151	0	151
	30	1038	185	1223	326	184	510	1364	369	1733
VIII Fisheries	0	0	0	0	0	0				

Integrated fish farming	4	77	6	83	4	0	4	81	6	87
Carp breeding and hatchery management	2	27	12	39	0	0	0	27	12	39
Carp fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0
Composite fish culture	1	19	8	27	0	0	0	19	8	27
Hatchery management and culture of freshwater prawn	0	0	0	0	0	0	0	0	0	0
Breeding and culture of ornamental fishes	1	19	8	27	0	0	0	19	8	27
Portable plastic carp hatchery	0	0	0	0	0	0	0	0	0	0
Pen culture of fish and prawn	3	65	5	70	0	0	0	65	5	70
Shrimp farming	0	0	0	0	0	0	0	0	0	0
Edible oyster farming	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0
Fish processing and value addition	2	31	5	36	0	0	0	31	5	36
	13	238	44	282	4	0	4	242	44	286
IX Production of Inputs at site	0	0	0	0	0	0				
Seed Production	0	0	0	0	0	0	0	0	0	0
Planting material production	0	0	0	0	0	0	0	0	0	0
Bio-agents production	0	0	0	0	0	0	0	0	0	0
Bio-pesticides production	0	0	0	0	0	0	0	0	0	0
Bio-fertilizer production	0	0	0	0	0	0	0	0	0	0
Vermi-compost production	0	0	0	0	0	0	0	0	0	0
Organic manures production	0	0	0	0	0	0	0	0	0	0
Production of fry and fingerlings	0	0	0	0	0	0	0	0	0	0
Production of Bee-colonies and wax sheets	0	0	0	0	0	0	0	0	0	0
Small tools and implements	0	0	0	0	0	0	0	0	0	0
Production of livestock feed and fodder	0	0	0	0	0	0	0	0	0	0
Production of Fish feed	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
X Capacity Building and Group Dynamics	0	0	0	0	0	0				
Leadership development	2	44	0	44	0	0	0	44	0	44
Group dynamics	2	61	0	61	12	0	12	73	0	73
Formation and Management of SHGs	0	0	0	0	7	0	7	7	0	7
Mobilization of social capital	2	54	0	54	7	0	7	61	0	61
Entrepreneurial development of farmers/youths	2	51	0	51	0	0	0	51	0	51
WTO and IPR issues	0	0	0	0	0	0	0	0	0	0
	8	210	0	210	26	0	26	236	0	236
XI Agro-forestry	0	0	0	0	0	0				
Production technologies	0	0	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0	0	0
Integrated Farming Systems	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0

TOTAL	101	2961	1195	4156	946	361	1307	3907	1556	5463
(B) RURAL YOUTH	0	0	0	0	0	0				
Mushroom Production	0	0	0	0	0	0	0	0	0	0
Bee-keeping	0	0	0	0	0	0	0	0	0	0
Integrated farming	0	0	0	0	0	0	0	0	0	0
Seed production	0	0	0	0	0	0	0	0	0	0
Production of organic inputs	1	28	0	28	6	0	6	34	0	34
Integrated Farming	0	0	0	0	0	0	0	0	0	0
Planting material production	0	0	0	0	0	0	0	0	0	0
Vermi-culture	0	0	0	0	0	0	0	0	0	0
Sericulture	0	0	0	0	0	0	0	0	0	0
Protected cultivation of vegetable crops	2	32	0	32	19	0	19	51	0	51
Commercial fruit production	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0
Nursery Management of Horticulture crops	0	0	0	0	0	0	0	0	0	0
Training and pruning of orchards	0	0	0	0	0	0	0	0	0	0
Value addition	5	132	167	299	171	233	404	303	400	703
Production of quality animal products	0	0	0	0	0	0	0	0	0	0
Dairying	0	0	0	0	0	0	0	0	0	0
Sheep and goat rearing	0	0	0	0	0	0	0	0	0	0
Quail farming	0	0	0	0	0	0	0	0	0	0
Piggery	0	0	0	0	0	0	0	0	0	0
Rabbit farming	0	0	0	0	0	0	0	0	0	0
Poultry production	0	0	0	0	0	0	0	0	0	0
Ornamental fisheries	0	0	0	0	0	0	0	0	0	0
Para vets	0	0	0	0	0	0	0	0	0	0
Para extension workers	0	0	0	0	0	0	0	0	0	0
Composite fish culture	0	0	0	0	0	0	0	0	0	0
Freshwater prawn culture	0	0	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0
Cold water fisheries	0	0	0	0	0	0	0	0	0	0
Fish harvest and processing technology	0	0	0	0	0	0	0	0	0	0
Fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0
Small scale processing	0	0	0	0	0	0	0	0	0	0
Post Harvest Technology	0	0	0	0	0	0	0	0	0	0
Tailoring and Stitching	0	0	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0	0	0
TOTAL	**8**	**192**	**167**	**359**	**196**	**233**	**429**	**388**	**400**	**788**
(C) Extension Personnel	0	0	0	0	0	0				

Productivity enhancement in field crops	0	0	0	0	0	0	0	0	0	0
Integrated Pest Management	0	0	0	0	0	0	0	0	0	0
Integrated Nutrient management	1	11	1	12	12	0	12	23	1	24
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0
Protected cultivation technology	1	13	1	14	10	0	10	23	1	24
Formation and Management of SHGs	0	0	0	0	0	0	0	0	0	0
Group Dynamics and farmers organization	0	0	0	0	0	0	0	0	0	0
Information networking among farmers	0	0	0	0	0	0	0	0	0	0
Capacity building for ICT application	0	0	0	0	0	0	0	0	0	0
Care and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0
WTO and IPR issues	0	0	0	0	0	0	0	0	0	0
Management in farm animals	0	0	0	0	0	0	0	0	0	0
Livestock feed and fodder production	0	0	0	0	0	0	0	0	0	0
Household food security	0	0	0	0	0	0	0	0	0	0
Women and Child care	0	0	0	0	0	0	0	0	0	0
Low cost and nutrient efficient diet designing	0	0	0	0	0	0	0	0	0	0
Production and use of organic inputs	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0
TOTAL	**2**	**24**	**2**	**26**	**22**	**0**	**22**	**46**	**2**	**48**
Grand Total	**111**	**3177**	**1364**	**4541**	**1164**	**594**	**1758**	**4341**	**1958**	**6299**

SUMMARY OF TRAINING PROGRAMMES

On Campus

Thematic Area	No. of Courses	No. of Participants								
		Others			SC/ST			Total		
		M	F	Total	M	F	Total	M	F	T
(A) Farmers & Farm Women										
Crop Production	3	38	0	38	4	0	4	42	0	42
Horticulture										
Soil Health and Fertility Management	5	66	17	83	77	14	91	143	31	174
Livestock production and management	3	10	253	263	0	10	10	10	263	273
Home Science/Women empowerment	6	2	211	213	0	65	65	2	276	278
Agricultural Engineering	3	82	0	82	35	0	35	117	0	117

Plant Protection	17	468	118	586	166	172	338	634	290	924
Fisheries	3	56	15	71	0	0	0	56	15	71
Production of Inputs at site										
Capacity Building	4	83	0	83	12	0	12	95	0	95
Total	**44**	**805**	**614**	**1419**	**294**	**261**	**555**	**1099**	**875**	**1974**
(B) RURAL YOUTH	7	192	124	316	196	230	426	388	354	742
(C) Extension Personnel	2	24	2	26	22	0	22	46	2	48
Grand Total	**53**	**1021**	**740**	**1761**	**512**	**491**	**1003**	**1533**	**1231**	**2764**

Off Campus

Thematic Area	No. of Courses	No. of Participants								
		Others			SC/ST			Total		
		M	F	Total	M	F	Total	M	F	T
(A) Farmers & Farm Women										
Crop Production	8	204	30	234	12	7	19	216	37	253
Horticulture										
Soil Health and Fertility Management	4	820	20	840	312	10	322	1132	30	1162
Livestock production and management	0									
Home Science/Women empowerment	11	15	347	362	2	48	50	17	395	412
Agricultural Engineering	7	238	88	326	148	23	171	386	111	497
Plant Protection	13	570	67	637	160	12	172	730	79	809
Fisheries	10	182	29	211	4	0	4	186	29	215
Production of Inputs at site										
Capacity Building	4	127	0	127	14	0	14	141	0	141
Total	**57**	**2156**	**581**	**2737**	**652**	**100**	**752**	**2808**	**681**	**3489**
(B) RURAL YOUTH	1	0	43	43	0	3	3	0	46	46
(C) Extension Personnel										
Grand Total	**58**	**2156**	**624**	**2780**	**652**	**103**	**755**	**2808**	**727**	**3535**

Consolidate (On + Off)

Thematic Area	No. of Courses	No. of Participants								
		Others			SC/ST			Total		
		M	F	Total	M	F	Total	M	F	T
(A) Farmers & Farm Women										
Crop Production	11	242	30	272	16	7	23	258	37	295
Horticulture	0	0	0	0	0	0	0	0	0	0
Soil Health and Fertility Management	9	886	37	923	389	24	413	1275	61	1336
Livestock production and management	3	10	253	263	0	10	10	10	263	273
Home Science/Women empowerment	17	17	558	575	2	113	115	19	671	690
Agricultural Engineering	10	320	88	408	183	23	206	503	111	614
Plant Protection	30	1038	185	1223	326	184	510	1364	369	1733

Fisheries	13	238	44	282	4	0	4	242	44	286
Production of Inputs at site	0	0	0	0	0	0	0	0	0	0
Capacity Building	8	210	0	210	26	0	26	236	0	236
Total	**101**	**2961**	**1195**	**4156**	**946**	**361**	**1307**	**3907**	**1556**	**5463**
(B) RURAL YOUTH	8	192	167	359	196	233	429	388	400	788
(C) Extension Personnel	2	24	2	26	22	0	22	46	2	48
Grand Total	**111**	**3177**	**1364**	**4541**	**1164**	**594**	**1758**	**4341**	**1958**	**6299**

(D) Vocationaltraining programmes forRuralYouth

Crop/ Enterprise	Date	Title of Training Programme	Identified Thrust area	Duration	No. of Participant			Self employed after training			No of Persons Employed
					M	F	T	Type of units	Number of units	Number of persons employed	
IPM Tools	23.7.14	IPM and Organic farming strategies with production of Bio pesticides	IPM Tools	1	0	105	105	Prod.	2	8	8
Micro Irrigation System	13-15.10.14	Repair and mintenance with practical utility of Micro Irrigation System (MIS) in field crop	MIS	3	27	0	27				
IPM Tools	6.12.14	Organic farming and production of IPM tools	IPM Tools	1	121	0	121				
Fruit & Vegetable	5.1.15	Food processing and value addition	Value additon	1	35	0	35				
Fruit & Vegetable	4-5.6.14	Preservation of mango	Value additon	2	0	30	30				
Fruit & Vegetable	24.7.14	Preservation of Vegetables and fruits	Value additon	1	0	78	78				
				6	**183**	**213**	**396**				

*training title should specify the majortechnology/skill transferred

(E) Sponsored Training Programmes(Details of training is given in Annexure-V)

Sr. No	Date	Discipline	Duration	Participants from (Village)	No. of Participant									Sponsoring agency
					General			SC/ST			Total			
					M	F	T	M	F	T	M	F	T	
1	17.05.14	Crop Production	1	Ext. Functionaries (ATMA)	13	1	14	10	0	10	23	1	24	ATMA
2	30.7.14 to 1.8.14	Plant Protection	3	Junagadh	18	0	18	11	0	11	29	0	29	ATMA
3	4.8.14	Plant Protection	1	Kota	8	8	16	17	17	34	25	25	50	NHRDF
4	21-23.8.14	Soil Health & Fertility management	3	Jamnagar District	11	1	12	12	0	12	23	1	24	ATMA
5	23.7.14	Plant Protection	1	Jamnagar District	0	30	30	0	75	75	0	105	105	ATMA

6	25.7.14	Plant Protection	1	Jamnagar District	0	58	58	0	22	22	0	80	80	ATMA
7	4.8.14	Integrated farming & IPM, IDM, ICM in field crops	1	Kota	24	2	26	22	0	22	46	2	48	NHRDF
8	16-18.9.14	Plant Protection	3	Amreli	30	0	30			0	30	0	30	ATMA
9	18-20.9.14	Agricultural Engineering	3	Jamnagar District	25	0	25			0	25	0	25	ATMA
10	18-20.9.14	Soil Health & Fertility management	3	Porbandar	0	0	0	35	0	35	35	0	35	ATMA
11	13-15.10.14	Agricultural Engineering	3	Amreli	27	0	27			0	27	0	27	ATMA
12	14.10.14	Plant Protection	1	Kalyanpur			0		28	28	0	28	28	AKRS Agakhan
13	28.10.14	Plant Protection	1	Junagadh	15		15			0	15	0	15	ATMA
14	14.11.14	Crop Production	1	Jamnagar District	21		21	8		8	29	0	29	Bayer
15	20.11.14	Agricultural Engineering	1	Jamnagar District	35		35	30		30	65	0	65	ATMA
16	20-22.11.14	Crop Production	3	Porbandar	0	17	17	0	14	14	0	31	31	ATMA
17	24-27.11.14	Plant Protection	3	Amreli	26		26	3		3	29	0	29	ATMA
18	30.12.14	Plant Protection	1	Nagour	0	22	22	0	30	30	0	52	52	ATMA
19	5.1.15	Soil Health & Fertility management	1	Jamnagar District	23	0	23	12		12	35	0	35	ATMA
20	6.1.15	Plant Protection	1	Dhrol Taluka	48	0	48	32	0	32	80	0	80	ATMA
21	7.1.15	Plant Protection	1	Jodiya Taluka	57	0	57	33	0	33	90	0	90	ATMA
22	8.1.15	Soil Health & Fertility management	1	Jamnagar District	43	0	43	22	0	22	65	0	65	ATMA
23	9.1.15	Plant Protection	1	Kalavad taluka	53	0	53	7	0	7	60	0	60	ATMA
24	12.1.15	Plant Protection	1	JamJodhpur	32	0	32	13	0	13	45	0	45	ATMA
25	25.2.15	Home Science	1	Gunda	0	29	29	0	1	1	0	30	30	FTC, Jam
26	26.2.15	Home Science	1	Pata Meghpar	15	98	113	2	11	13	17	109	126	FTC, Jam
27	27.2.15	Crop Production	1	Ghunda	0	30	30			0	0	30	30	FTC, Jam
					524	**296**	**820**	**269**	**198**	**467**	**793**	**494**	**1287**	

3.4 Extension Programmes (including activities of FLD programmes)

Sl. No.	Nature of Extension Programme	Purpose/ topic & Date	No. of Progr-ammes	No. of Participants											
				General			SC / ST			Extension Officials			Total		
				M	F	T	M	F	T	M	F	T	M	F	T
1	Field Day		9	169	6	175	15	4	19	0	0	0	184	10	194
2	Kisan Mela		2	0	0	0	0	0	0	0	0	0	0	0	0
3	Kisan Ghosthi		31	1780	250	2030	659	80	739	44	12	56	2483	342	2825

4	Exhibition		2	0	0	0	0	0	0	0	0	0	0	0	0
5	Film Show		47	1363	571	1934	419	110	529	8	1	9	1790	682	2472
6	Method Demonstrations		12	54	95	149	27	27	54	0	0	0	81	122	203
7	Farmers Seminar		12	307	39	346	101	44	145	8	2	10	416	85	501
8	Workshop		0	0	0	0	0	0	0	0	0	0	0	0	0
9	Group meetings		34	837	233	1070	349	77	426	3	0	3	1189	310	1499
10	Lectures delivered as resource persons		95	3915	1296	5211	901	434	1335	65	25	90	4881	1755	6636
11	Newspaper coverage		1	0	0	0	0	0	0	0	0	0	0	0	0
12	Radio talks		0	0	0	0	0	0	0	0	0	0	0	0	0
13	TV talks		2	0	0	0	0	0	0	0	0	0	0	0	0
14	Popular articles		2	1200	0	1200	0	0	0	0	0	0	1200	0	1200
15	Extension Literature		38	2258	20	2278	124	28	152	0	0	0	2382	48	2430
16	Advisory Services		106	154	2	156	50	0	50	0	0	0	204	2	206
17	Scientific visit to farmers field		104	289	28	317	62	0	62	0	0	0	351	28	379
18	Farmers visit to KVK		118	369	10	379	142	11	153	4	0	4	515	21	536
19	Diagnostic visits		18	17	0	17	1	0	1	0	0	0	18	0	18
20	Exposure visits		2	13	0	13	5	0	5	0	0	0	18	0	18
21	Ex-trainees Sammelan		0	0	0	0	0	0	0	0	0	0	0	0	0
22	Soil health Camp		0	0	0	0	0	0	0	0	0	0	0	0	0
23	Animal Health Camp		1	59	0	59	0	0	0	0	0	0	59	0	59
24	Agri mobile clinic		5274	4412	251	4663	2171	74	2245	23	0	23	6606	325	6931
25	Soil test campaigns		0	0	0	0	0	0	0	0	0	0	0	0	0
26	Farm Science Club Conveners meet		0	0	0	0	0	0	0	0	0	0	0	0	0
27	Self Help Group Conveners meetings		1	0	29	29	0	1	1	0	0	0	0	30	30
28	Mahila Mandals Conveners meetings		6	0	117	117	0	44	44	0	0	0	0	161	161
29	Celebration of important days (specify)		2	0	0	0	0	0	0	0	0	0	0	0	0
30	Female groups		2	2	55	57	0	8	8	0	0	0	2	63	65
31	Night Meetting		3	135	0	135	46	0	46	0	0	0	181	0	181
32	Crop Shibir/Farmer shibir		0	0	0	0	0	0	0	0	0	0	0	0	0
33	Collobrative training		13	699	124	823	84	10	94	0	0	0	783	134	917
34	Training to Extension Functionaries		2	20	0	20	12	0	12	23	1	24	55	1	56
35	Any Other (Specify)		38	4772	1642	6414	1332	415	1747	346	148	494	6450	2205	8655
	Total		**5977**	**22824**	**4768**	**27592**	**6500**	**1367**	**7867**	**524**	**189**	**713**	**29848**	**6324**	**36172**

TECHNOLOGY WEEK

Number of Technology weeks celebrated	Types of Activities	No. of Activities	Numaber of Participants	Related crop/livestock technology

0	Gosthies	5	520	1. 1st day: Organic Farming and minimize cost of cultivation, ICM, IPM, IDM in field crops. 2. 2nd day: Integrated farming (farming, animal husbundry, fisheries, vermi compost etc.) 3. 3rd day: Value addition of farm products and water use efficiency through use of micro irrigation systems 4. 4th day: Integrated Diseases Management, Mechanization of Farm and newer farm implements; Organic Manures production, reutilization of farm waste material (cotton Stalks) 5. 5th day: Export Quality production of Spices & Condiments and its value addition
	Lectures organised	30	520	1. Integrated Pest and disease of major crops 2. Importance of micronutrients and fertilizers in agriculture 3. Importance of micro irrigation system 4. Animal care and maintenance with agriculture 5. Value addition in farm products 6. Export oriented farming of spices crop 7. Farm women empowerment 8. Scope of horticultural crops in modern agriculture 9. Recycling for farm waste material and composting 10. Vermin compost and organic farming 11. Emphasizes on adverse effect of climate change in agriculture 12. Integrated Pest and disease of major crops
	Exhibition	1	520	Farm implements were put for exhibition cum demonstration pupbose
	Film show	5	520	Film Show of different technologies were presented
	Fair			1. Animal (Gir cow)unit 2. Net House/Poly house 3. Solar submersible pump (Renewable energy) 4. Vermi compost unit 5. Fisheries unit 6. Agro forestry unit 7. Orchard of chiku, custard apple, guava, pomegranate and aonla 8. Drip and sprinkler system in farm 9. Crop cafeteria of major crop of the district 10. Seed production unit 11. Improved Implements viz. Laser land leveler, Tractor operated sprayer, tractor operated spray gun, rotavator, groundnut digger, tractor operated reaper for sorghum, groundnut exposure, minitractor, Mould plough, automatic seed cum fertilizer drill, etc.
	Farm Visit	5	520	During farm visit farmers were demonstrate reaper demonstration for sorghum cutting. and also other different implements were demonstrated
	Diagnostic Practicals	9	52	
	Distribution of Literature (No.)	8	2500	
	Distribution of Seed (q)			
	Distribution of Planting materials (No.)			
	Bio Product distribution (Kg)			
	Bio Fertilizers (q)			
	Distribution of fingerlings			

	Distribution of Livestock specimen (No.)			
	Total number of farmers visited the technology week		520	

KISAN MOBILE ADVISORY

No. of Farmers registered : _2000__

Text Messages			**Voice Messages**		
Content Category	**No. of Messages**	**No. of Farmers**	**Content Category**	**No. of Messages**	**No. of Farmers**
Crop Production			**Crop Production**	**0**	**0**
Crop Protection	**6**	**14138**	**Crop Protection**	**0**	**0**
Livestock & Fisheries Advisory	**6**	**31411**	**Livestock & Fisheries Advisory**	**0**	**0**
Weather Advisory	**1**	**13554**	**Weather Advisory**	**0**	**0**
Market Information			**Market Information**	**0**	**0**
Events Information			**Events Information**	**0**	**0**
Input availability			**Input availability**	**0**	**0**
Others (specify)			**Others (specify)**	**0**	**0**
Total	**13**	**59103**	**Total**	**0**	**0**

INTERVENTIONS ON DROUGHT MITIGATION

Introduction of alternate crops/varieties

State	**Crops/cultivars**	**Area (ha)**	**Number of beneficiaries**

Major area coverage under alternate crops/varieties

Crops	**Area (ha)**	**Number of beneficiaries**
Oilseeds		
Pulses		
Cereals		
Vegetable crops		
Tuber crops		
Total		

Farmers-scientists interaction on livestock management

State	**Livestock components**	**Number of interactions**	**No.of participants**
Total			

Animal health camps organised

State	**Number of camps**	**No.of animals**	**No.of farmers**
Total			

Seed distribution in drought hit states

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

Total				

Large scale adoption of resource conservation technologies

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

Awareness campaign

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

3.5 PRODUCTION AND SUPPLY OF TECHNOLOGICAL PRODUCTS(2014-15)

SEED MATERIALS

Sr.No.	**Major group/ class**	**Crop**	**Variety**	**Quantity (Kg.)**	**Value**	**Provided No. of farmers**
1	CEREALS					--
2	OILSEEDS	Sesame	G.Til.-10	110		
3	PULSES	Green gram	G.M.-4	474		
4	VEGETABLES					
5	OTHERS					

SUMMARY

Sl. No.	**Major group/class**	**Quantity (Kg.)**	**Value (Rs.)**	**Provided to No. of Farmers**
1	CEREALS			
2	OILSEEDS	Sesame	G.Til.-10	110
3	PULSES	Green gram	G.M.-4	474
4	VEGETABLES			
5	OTHERS			
TOTAL				

PLANTING MATERIALS : Nil..

Major group/class	**Crop**	**Variety**	**Quantity (Nos.)**	**Value (Rs.)**	**Provided to No. of Farmers**
FRUITS					
SPICES					
VEGETABLES					
FOREST SPECIES					
ORNAMENTAL CROPS					
PLANTATION CROPS					
Others (specify)					

SUMMARY

Sl. No.	**Major group/class**	**Quantity (Nos.)**	**Value (Rs.)**	**Provided to No. of Farmers**
1	FRUITS			
2	VEGETABLES			
3	SPICES			
4	FOREST SPECIES			

5	ORNAMENTAL CROPS			
6	PLANTATION CROPS			
7	OTHERS			
	TOTAL			

BIO PRODUCTS

Major group/class	Product Name	Species	Quantity		Value (Rs.)	Provided to No. of Farmers
			No	(kg)		
BIOAGENTS						
BIO FERTILIZERS						
BIO PESTICIDE						
TOTAL						

SUMMARY

Sl. No.	Product Name	Species	Quantity		Value (Rs.)	Provided to No. of Farmers
			Nos	(kg)		
1	BIOAGENTS					
2	BIO FERTILIZERS					
3	BIO PESTICIDE					
	TOTAL					

LIVESTOCK : NIL..

Sl. No.	Type	Breed	Quantity		Value (Rs.)	Provided to No. of Farmers
			(Nos	Kgs		
CATTLE	Cow bull	Gir	4Bull		6000	Demo. Farm of KVK
SHEEP & GOAT						
POULTRY						
FISHERIES						
OTHERS						
TOTAL						

SUMMARY

Sl. No.	Type	Breed	Quantity		Value (Rs.)	Provided to No. of Farmers
			Nos	Kgs		
1	CATTLE	Gir	4 Bull		6000	Demo. Farm of KVK
2	SHEEP & GOAT					
3	POULTRY					
4	FISHERIES					
5	OTHERS					
	TOTAL		**3 Cow**		**8020**	

3.6 LITERATURE DEVELOPED/PUBLISHED (with full title, author & reference)

(A) KVK NewsLetter ((Date of start, Periodicity, number of copies distributed etc.)

KVK is already part of JAU newsletter, which is periodically

(B) Literature developed/published

Literature developed / published

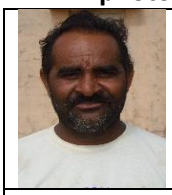
Item	Title	Authors name	Number of copies
Research papers			
Total	1		
Technical reports	Annual Progress Report	KVK, JAU, Jamnagar	
	11th AGRESCO Report		

	21st ZREAC Report		
	22ndZREAC Report		
	11th SAC Report		
	Monthly Report		
	Quarterly Reports		
Popular articles	Management of white grub in groundnut.	Dr. K. P. Baraiya & Dr. K. L. Raghvani	
	Pests of Pearl millet	Dr. K. L. Raghvani	
	Scientific farming of summer pearl millet	Dr. K. K. Dhedhi, Dr. K. L. Raghvani, Dr. C. J. Dangariya	
Leaflets/folders	Pesticide classification and its identical application	Dr. K P. Baraiya	200
	Recyclin of Farm Waste material	Dr. K. P. Baraiya	150
	Vermicompost	Dr. K P. Baraiya	150
Total	10		
GrandTOTAL	**11**		**300**

(C) Details of Electronic Media Produced

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

3.7. Success stories/Case studies, if any (two or three pages write-up on each case with suitableaction photographs)



PROFILE OF FARM INNOVATORS

Personal Profile				Vegetable growing in Net House
Name of farmwomen	:	Karabha Sajanbha Sumaniya		Varvada is well famous for almond growing and this village export this almond in various countries. It is comes near by Holistic city Dwarka, the work place of Loard Krishna. The well famous Jagat Temple of Load Krishna is near by this village. It covere three side seashore and There is a heavy press of seawater and salt in irrigation water. It is very difficult to cultivation in this situation. Karbha Sajanbha Sumaniya is an un-educated progressive farmer. He has started cultivation since last 20 years. His family is also depend on farming business. They self-working in his farm.
Contact No.	:	9275700340		
Address	:	At.- Varvala, Ta.- Dwarka, Dist.- Devbhum Dwarka		
Age	:	49 Years		
Education(highest level and subject)	:	Non Educated		
Land holding	:	7 acres		**Practical Utility of the Innovation/ Mode etc.**
Crops grown	:	Palak, Tandaljo, Coriander, Chiku, Coconut,		Shri Karabha Sajanbha Sumaniya is uneducated innovative farmer. He started Farming since last 20 years with common farming practices*viz.,* maize, sorgjum, lucern and other fodders; and after some experience, he started chilli growing in his farm. He comes in contect with Scientist from Krishi
Livestock	:	4 Cow,		
Business	:	Farming		

Special recognition	:	Group leader in ATMA		Vigyan Kendra, JAU, Jamnagar and Gram Sevel and Tata Chemical Support for Rural Development (TCSRD) since Krishi Mahotshav. Then he decided to farm with some innovation, TCSRD support for develop small net house (500 sq.m.) before 3 years. Palak Coriander, Tandaljo, Fenugreek, etc growing in this net house. He observe clear difference in net house vegetative growth of the all vegetables. He can harvest fenugreek within 18 days instead of 25 days in normal condition. In addition, it can harvest up to 80 days in net house. The quality difference for palak is market price Rs. 30 to 60 for net house instead of normal palak price Rs. 10 to 20 per kilogram. He earned Rs. 80000/- within 75 days with net house of 500 sq.m. During rainy season, coriander cannot successfully grown in normal condition, however, he grow coriander in net house and earned Rs. 20000/- within 20 days. Thus, he have done more innovative work within net house and he appreciated for the same. He also started another net house at his own cost for better farming.

Net house out view

Crop grown in net house

Raised bed in net house

Drip and raised bed in net house

3.8. Give details of innovative methodologyor innovative technology of Transfer of Technology developed and used during the year

1. Innovative methodology:

- Farmers to farmer dissemination
- Distributed printed leafletto farmers

- Farm School on farmer's field

2. Innovative technology transfer:

- Use of FYM to minimize the chemical fertilizer in cotton
- Use of Trichoderma against stem rot disease of groundnut
- Tractor mounted sprayer
- Introduction of new variety i.e.GG-3
- Use of trap crop, pheromone trap etc. as a IPM component
- Cotton stalk shredder

3.9 Give details of indigenoustechnology practiced by the farmers in the KVK operational area, whichcanbe consideredfor technology development(in detail with suitable photographs)

S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
1.	Chilly	Use castor as a trap crop	For controlling thrips and jassids
2	Crop husbandry	Crop rotation and mixed cropping	Control weed
3	"	Mixing of ash with pulse/millet grains	While storing to protect from pest
4	"	Vegetable seeds placed inside cowdung	Use for next year
5	Fertility Managt	Application of ash	To improve soil fertility
6	"	Sheep and goat penning	To improve soil fertility
7	Harvesting	Harvest pulse crop in the morning hours	To reduce shattering

3.10 Indicate the specifictraining need analysis tools/methodology followed for

- Identification of courses for farmers/farm women
  - Groupdiscussion
- Rural Youth
  - Filling up research based questionnaires
  - Identification of leader (Sociometric method)
- Inservice personnel
  - Knowledgetest (Interview schedule)

3.11 Field activities

i. Number of villages adopted : 24

Sr. No	Name of village	Sr. No.	Name of Village	Sr. No.	Name of Village
1.	Lakhtar	7.	Nathuvadala	14.	Udepur
2.	Ananda	8.	Soyal	15.	Kadbal
3.	Limbuda	9.	Vankiya	16.	Vasantpur
4.	Keshiya	10.	Manekpar	17.	Dhanuda
5.	Manpar	11.	Nana Garadiya	18.	Gorakhadi
6.	Hirapar	12.	Mavapar	19.	Manpar
		13.	Kalyanpur	20.	Bijalpar

ii. No. offarm families selected : 1025

iii. No. of survey/PRA conducted : 1

3.12. Activities of Soil and Water Testing Laboratory

1. Status of establishment of lab : Working

2. Year of establishment **:**2005-06

3. List of equipments purchased with amount **:**

Sl. No	Name of the Equipment	Qty.	Cost
1	Spectrophotometer	1	89160
2	Flame photometer	1	
3	Physicalbalance	1	10640
4	Chemicalbalance	1	100000
5	Water distillation still	1	96118
6	Kieldahi digestion and distillation	1	49644
7	Shaker	1	80080
8	Grinder	1	16772
9	Refrigerator	1	
10	Oven	1	30550
11	Hot plate	1	
Total		11	472964

Details of samples analyzed so far

----Nil---

4.0 IMPACT

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

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)

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

4.2. Cases of large scale adoption

(Please furnish detailed information for each case)

4.3 Details of impact analysis of KVK activities carried out during the reporting period

5. LINKAGE

5.1 Functional linkage with different organizations

Sr.	Name of organization	Nature of linkage
A	**Statecorporation and state deptt.**	
1	DistrictAgriculturalOfficer, Deptt. of Agriculture, District Panchayat, Jamnagar	➢ Joint diagnostic teamvisit at farmers field ➢ Organizing collaborative trainingto farmers ➢ For collaborative off campus training ➢ For collaborative training and demonstration Programme ➢ Collaborative on campustrainingprogramme ➢ For providing hostel facilitiesto participants and organizing
2	DistrictRuralDevelopment Agency, Jamnagar	
3	DeputyDirector of Veterinary, Department of veterinary &Animal Husbandry, Jamnagar	
4	DeputyDirector of Horticulture, Jamnagar	
5	DeputyDirector of Agriculture (Training), Farmer Training Centre, Jamnagar	
6	DeputyDirector of Agriculture (Extension), Jamnagar	
7	Asstt. Director of Fisheries, Jamnagar	
8	RangeForest Officer, Jamnagar	
9	Asstt. Director of GLDC, Jamnagar	

10	Estate Engineer, Department of Irrigation, Jamnagar	collaborative Mahila Krishi Mela
11	All Taluka DevelopmentOfficers, and their team at Taluka level	
12	Rajkot-Jamnagar Gramin Bank, Jamnagar	
13	Project Director, ATMA, Jamnagar	
14	Project Director, DWDU, Jamnagar	
B	**PrivateCorporation**	
1	Territory Manager, GSFC, Jamnagar	➢ Imparttraining on Agril. aspects ➢ Collaborative on/off campustrainingprogramme ➢ Sponsortrainingprogramme
2	Territory Manager, GNFC, Jamnagar	
3	Territory Manager, IFFCO, Jamnagar	
4	Reliance Industries, Dept. of Green Belt, Jamnagar	
C	**NGOs**	
1	Murlidhar Trust, Opp. Trajitpara Branch School, Bhanvad	➢ Imparttraining on Agril. aspects ➢ Collaborative on/off campustrainingprogramme
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 ChemicalSocietyforRuralDevelopment Foundation, At. Mithapur, Ta.-Dwarka, Dist.-Jamnagar	
11	Agakhan Rural Development Trust	

5.2 Listspecial programmes undertaken by the KVK, which have been financed by State Govt./Other Agencies

Name of the scheme	Date/ Month of initiation	Fundingagency	Amount (Rs.)
Establishment of AgriculturalTechnologyInformationCentre (ATIC)	2005-06	StateGovernment	287000/-

5.3 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	Celeberate Technology week Arrangement of Krishi Mela
2.	Block level training	Lecture delivered	
3.	Village level training		

5.4 Give details of programmes implemented underNational Horticultural Mission

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

5.5 Nature of linkage with NationalFisheriesDevelopmentBoard

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

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

6.1 Performance of demonstration units (other than instructional farm)

Sl. No.	Demonstra-tion Units	Year of Establi-shment	Area	Details of production			Amount (Rs.)		Remark
				Variety	produce	Quantity (Qtl)	Cost of inputs	Grossin come	
1	Vermi compostUnit	2007-08	150 sq. m	*Icenea fatida*	Vermi culture	-	-	-	
					Vermi compost	-	-	-	
2	Horticulture Unit	2012-13	3.5 Ha	Guavava	Fruit	160 kg	-	4000/-	
				Sapota	Fruit	124			
				Pomogranet	Fruit	52			
				Custard apple	Fruit	25			
				Aonla	Fruit	18			

6.2 Performance of instructional farm (Crops) including seed production

Name Of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty. kg	Cost of inputs	Gross income	
Cereals									
Green Gram	21.07.14		1.00	GM-4	Grain	474			
Sesame	22.07.14		1.00	Guj.Til.-10	Grain	110			
Sorghum	26.7.14		8.3	GJ-38	Green fodder	24750			
					Dry fodder	25800			
Maize	02.11.14		0.65	Local	Green fodder	4750			
Lucern	12.11.14		0.4	Annand-2	Green fodder	3000			
Pulses									
Oilseeds									
Fibers									
Spices & Plantation crops									
Floriculture									
Fruit									
Vegetable									
Others (Fodder) (Specify)									

6.3Performance of production Units (bio-agents / bio pesticides/ bio fertilizers etc.,)

Sl. No.	Name of the Product	Qty	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	

6.4 Performance of instructional farm (livestock and fisheries production)

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Grossincome	
1.	Carp (Fish)	Catla	Fish				
2.	Gir Cow	Gir Cow	Milk	5467.7 lit.	-	139359	
		Gir Cow	FYM	18000 kg.			Use in instruction farm

6.5 Rainwater Harvesting

Training programme conducted by using rain water harvesting Demo. units

Date	Title of the training course	Client (PF/RY/EF)	No. of Courses	No. of Participants including SC/ST			No. of SC/STParticipants		
				Male	Female	Total	Male	Female	Total

6.6 Utilization of hostel facilities:

Accommodation available (No. of beds) : 25

Months	Title of the training course/ Purpose of stay	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
April 2014		28	3	
Total		28		
May 2014		30	3	
Total		**30**		
June 2014				
Total				
July 2014	IPM & IDM in kharif crop	31	3	
Total		**31**		
August 2014				
Total				
September 2014	IPM & MIS in groundnut	32	3	
Total		**32**		
October 2014		28	3	
		27	3	
		32	3	
Total		**87**		
November 2014	Role of women in Agricultural development	31	3	
	IPM in rabi crops and Use of improved implements	27	3	
Total		**58**		
December 2014				
Total				
January 2015				
Total				
February 2015	Solar energy in agriculture and use of MIS in agriculture	32	3	
Total		**32**		
March 2015	Value adition in fruit & vegetable and nutritive value	31	3	

	Storage techniques for farm produce and IMP in Summer crops	26	3	
Total		**57**		
Grand total		**355**		

5 X 25= 125 (Duration of the training course X No. of traininees)

7. FINANCIAL PERFORMANCE

7.1 Details of KVK Bank accounts

Bankaccount	Name of the Bank	Location	AccountNumber
With Host Institute	---	--	---
With KVK	StateBank of India	Super Market Jamnagar	10319002389

7.2 Utilization of funds under FLD on Oilseed *(Rs. In Lakhs)*

Item	Released by ICAR		Expenditure		Unspent balance as on 1st April 2015
	Kharif 2014-15	Rabi 2014-15	Kharif 2014-15	Rabi 2014-15	
Inputs					
Extension activities					
TA/DA/POL etc.					
TOTAL					

7.3 Utilization of funds under FLD on Pulses *(Rs. In Lakhs)*

Item	Released by ICAR		Expenditure		Unspent balance as on 1st April 2015
	Kharif 2014-15	Rabi 2014-15	Kharif 2014-15	Rabi 2014-15	
Inputs					
Extension activities					
TA/DA/POL etc.					
TOTAL					

7.4 Utilization of funds under FLD on Cotton *(Rs. In Lakhs)*

Item	Released by ICAR	Expenditure	Unspent balance as on 1st April 2015
	Kharif2014-15	Kharif2014-15	
Inputs			
Extension activities			
TA/DA/POL etc.			
TOTAL			

7.5 Utilization of KVK funds during the year2014-15

S. No.	Particulars	Sanctioned	Released	Expenditure
A.	**RecurringContingencies**			
1	**Pay& Allowances**	**5900000**	**5899821**	**5376424**
2	**Traveling allowances**	**50000**	**50000**	**110546**
3	**Contingencies**	**450000**	**450000**	**1184971**
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and librarymaintenance (Purchase of News Paper & Magazines)	120000	120000	215802

B	POL, repair of vehicles, tractor and equipments	60000	60000	202013
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)	120000	120000	65890
D	Trainingmaterial (posters, charts, demonstration material including chemicalsetc.requiredforconducting the training)	50000	50000	168965
E	Training of extension functionaries	10000	10000	229667
F	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	50000	50000	75770
G	On farm testing (on need based, locationspecific and newly generated information in the majorproduction systems of the area)	30000	30000	215864
H	Maintenance of buildings	10000	10000	11000
I	Establishment of Soil, Plant& Water Testing Laboratory			
J	Library			
	TOTAL (A)	**6400000**	**6399821**	**6671941**
B.	**Non-Recurring Contingencies**	**0**	**0**	**0**
1	**Works**	0	0	0
2.	**Equipment including SWTL & Furniture**	0	0	0
3.	**Vehicle** (Four wheeler/ Two wheeler, please specify)	0	0	0
4.	**Library** (Purchase of assets like books & journals)	0	0	0
	TOTAL (B)	**0**	**0**	**0**
C.	**REVOLVING FUND**	0	0	0
GRAND TOTAL (A+B+C)		**6400000**	**6399821**	**6671941**

7.6 Status of revolving fund (Rs. in lakhs) for the three years

Year	Openingbalanceas on 1st April	Income during the year	Expenditure during the year	Netbalance in handas on 1st April of each year
April 2011 to March 2012	2336324	522502	119538	2739288
April 2012 to March 2013	2739288	666821	2540	3403569
April 2013 to March 2014	3403569	564600	455445	3512724
April 2014 to March 2015	3512724	679076	351515	3840285

8.0 PLEASEINCLUDEINFORMATION, WHICH HAS NOT BEEN REFLECTED ABOVE (WRITE IN DETAIL).

8.1 Constraints

(a) Administrative : Administrative post are vaccanrt

(b) Fianacial : Grant released on time (FLDs)

(c) Technical : Some post are vacant i.e. Horticulture, Soil Science (Crop Production), Animal Husbandy, Agricultural Engineering, Computer Operator, Programme Assistant, Stenographer, Jeep Driver

8.2KRISHI MAHOTSAV – 2014

Mass Extension programme i.e. "Krishi Mahotsav-2014" held during 26-5-2014 to09-06-2014

Sr. No.	Name of Block	Name of Scientist		No. of Village covered	No. of participant		
		Team A	Team B				
		26.5.14 to 01.06.14	02.06.14 to 09.06.14		Male	Female	Total
1.	Jamnagar	Dr. G. V. Maraviya & Shri. P.M. Makvana	Dr. K. L. Raghvani & Shri M. P. Patel	101	3217	301	3518
2.	Dhrol	Dr. G. M. Parmar & Shri P. R. Davra	Shri H. K. Kandoria & Shri M. K. Bhalala	54	2287	1010	3297
3	Jodia	Shri R. P. Juneja & Dr. J. N. Thaker	Dr. N. H. Joshi& Shri N. N. Chaudhari	47	1834	498	2332
4	Kalavad	Shri N. N. Galani & Shri A. L. Vadher	Dr. K. D. Mungra & Dr. S. S. Patil	96	2130	291	2421
5	Lalpur	Dr. K. K. Dhedhi & Shri C. R. Sabale	Dr. N. J. Ardeshana& Shri H. G. Vansjaliya	79	2401	216	2617
6	Bhanvad	Shri R. B. Thanki & Shri S. N. Galani	Dr. D. L. Kadvani & Dr. A. R. Bhadaniyia	67	2398	196	2594
7	Jamjodhpur	Shri M. J. Gojia& Shri R. K. Ratod	Dr. D. D. Ghonia& Dr. G. M. Chaudhari	59	3223	672	3895
8	Jam Khambhadia	Dr. J. S. Sorathia & Shri A. J. Patel	Shri K. K. Kanjaria & Shri D. K. Patel	83	2217	483	2700
9	Jam Kalyanpur	Dr. K. P. Baraiya & Shri R. P. Vavaiya	Dr. P. S. Gorfad & Shri C. B. Ajudia	62	2637	458	3095
10	Dwarka	Shri N. J. Akolkar & Shri L. R. Chavada	Shri V. M. Chavada & Shri P.R. Patel	39	1335	253	1588
				687	23679	4378	28057

RABI KRISHI MAHOTSAV – 2014

Mass Extension programme i.e. "Krishi Mahotsav-2014" held during 11.12.2014 to 22.12.2014

Sr. No.	Name of Block	Name of Scientist				No. of Village covered	No. of participant		
		Team leader	Scientist	Scientist	Scientist		Male	Female	Total
1.	Jamnagar	Dr. P. R. Padhar,	Shri R. P. Juneja	Smt. A. C. Maheta	Smt. A. K. Baraiya	101			
2.	Dhrol	Dr. K. P. Baraiya`	Dr. K. D. Mungara	Shri N. N. Chaudhari	Shri S. N. Galani	54			
3	Jodia	Dr. K. P. Baraiya`	Dr. K. D. Mungara	Shri N. N. Chaudhari	Shri S. N. Galani	47			
4	Kalavad	Dr. K. K. Dhedhi	Dr. G. M. Parmar	Dr. P. S. Gorfad	Dr. J. N. Thaker	96			
5	Lalpur	Dr. P. R. Padhar,	Shri R. P. Juneja	Smt. A. C. Maheta	Smt. A. K. Baraiya	79			
6	Bhanvad	Shri H. K. Kandoriya	Dr. D. L. Kadvani	Dr. J. S. Sorathiya	Shri P. R. Patel	67			
7	Jamjodhpur	Shri H. K. Kandoriya	Dr. D. L. Kadvani	Dr. J. S. Sorathiya	Shri P. R. Patel	59			

8	Jam Khambhadia	Dr. K. P. Baraiya`	Dr. K. D. Mungara	Shri N. N. Chaudhari	Shri S. N. Galani	83			
9	Jam Kalyanpur	Dr. K. K. Dhedhi	Dr. G. M. Parmar	Dr. P. S. Gorfad	Dr. J. N. Thaker	62			
10	Dwarka					39			
						687			

8.3OTHER SCHEME :

8.3.1 ESTABLISHMENT OF AGRICULTURAL TECHNOLOGY INFORMATION CENTRE (ATIC)(YEAR-2014-15)

1.	Name of the Scheme	:	Establishment of Agricultural Technology Information Centre (ATIC) B.H. 10572-03
2.	Location of the scheme	:	Krishi Vigyan Kendra, JAU, Jamnagar
3.	Officer-incharge of the scheme	:	Programme Coordinator, KVK, JAU, Jamnagar
4.	Objectives	:	➢ Single window system for technology dissemination. ➢ Formulation of FIGs as a process of innovativeness in technology dissemination. ➢ Feedback from users to the research centre
5.	Justification of the scheme	:	➢ The JAU has generated a large number of technologies in different disciplines of agriculture and all allied subjects. ➢ Location specific technology and assessment technologies and demonstration of the technological models is planned.

A. Details of ATIC:

Sr. No.	Name of ATIC	Name of host institute	Name of ATIC manager	Telephone No.			E-mail address
				Office	Fax	Mobile	
1.	KVK, Jamnagar	Junagadh Agricultural University, Junagadh	Programme Coordinator	(0288) 2710165	(0288) 2710165	+919427497561	Kvkjamnagar@jau.in

B. Details of farmers visit:

Sr. No.	Name of ATIC	Purpose of visit	No. of farmers visited
1.	KVK, Jamnagar	For Agricultural information	427

C. Facilities in ATIC (Operational):

Sr. No.	Particulars	No. of ATIC
1.	Reception Counter	No
2.	Exhibition/technology measures	Nil
3.	Touch screen kiosk	Nil
4.	Cafeteria	Yes
5.	Sales Counter	No
6.	Farmers feed back register	Yes

D. 1.Details technology information, category of information:

Name of ATIC	Information Category	No. of farmers benefitted	Variety	Pest Management	Disease management	Agro tech.	SWT	PHT	AH/ Fish
KVK, Jamnagar	Kisan call Centre phone	130	21	41	15	3	25	0	25
	Letters Received	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

	Letter replied	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
	Training	80	0	15	0	15	50	-	-

S.No.	Name of ATIC	Name of Activity	No of Ativity		No. of Participant	
			Target	Achievement	Target	Achievement
1.	KVK, Jamnagar	Group meeting	5	5	50	77
2.		Field Day	4	10	40	40
3.		Night meeting	2	2	50	38

ANNEXURE-1

PROCEEDING OF THE 11th SCIENTIFIC ADVISORY COMMITTEE MEETING OF KRISHI VIGYAN KENDRA, JAU, JAMNAGAR HELD ON 21st February, 2015

The Eleventh Scientific Advisory Committee meeting of Krishi Vigyan Kendra, JAU, Jamnagar was held at Training Hall, Krishi Vigyan Kendra, JAU, Jamnagar on 21st February, 2015.

The following members were remain present in the meeting.

Sr. No.	Name & Designation	Position
1	Vice Chancellor, Junagadh Agricultural University, Junagadh	Chairman
2	Director of Extension Education, Junagadh Agricultural University, Junagadh -362001.	Member
3	Director of Research, Junagadh Agricultural University, Junagadh	Member
4	Associate Director of Research, Main Dry Farming Research Station, Junagadh Agricultural University, Targhadia (Rajkot).	Member
5	Research Scientist (Millet), Main Millet Research Station, Junagadh Agricultural University, Jamnagar- 361 006.	Member
6	District Agricultural Officer, District Panchayat, Jamnagar	Member
7	Project Director, District Watershed Development Unit, District Rural Development Agency, Sardar Bhavan, Rameshwarnagar, Jamnagar (Navagam Ghed).	Member
8	Director, Directorate of Groundnut Research, Ivanagar road, PB No. 5, Junagadh	Member
9	Dy. Director of Animal Husbandry, Dept. of Veterinary & Animal Husbandry, District Panchayat, Jamnagar	Member
10	Dy. Director of Horticulture, 30, Digvijay Plot, Jodiyawala Building, Jamnagar	Member
11	Dy. Director of Agriculture (Extension), Lalbunglow, Nr. Trazery office, Jamnagar	Member
12	Dy. Director of Agriculture, Farmers Training Centre, Air Force Road, Opp. Digjam Mill, Jamnagar.	Member
13	Project Director, Agricultural Technology Management Agency (ATMA), Air Force Road, Opp. Digjam Mill,Jamnagar.	Member
14	Dy. Conservation of Forest, Forest Department,(Extension), Nagnath Gate, Ganjiwad, Jamnagar	Member
15	Director, District Industries Centre, Jilla Seva Sadan-2, B/h. District Panchayat, Nr. Treasury, Lalbunglow Compound, Jamnagar	Member
16	District Manager, State Bank of India, Lead Bank, Ranjit Road,Jamnagar	Member
17	Programme Coordinator, Krishi Vigyan Kendra, Junagadh Agricultural University, Rajkot-Ahmedabad HighwayTadghadiya , District:- Rajkot	Member
18	Shri Arjanbhai Khetabhai Makwana, At:- Dadiya, Ta & Dist.- Jamnagar	Member
19	Smt. Sumiben Arjanbhai Makwana, At:- Dadiya, Ta & Dist.- Jamnagar	Member
20	Shri Hirabhai Veljibhai Nakum, At.:- Dharampur, Ta;- Khambhadia, Dist:- Jamnagar	Member
21	Programme Coordinator, Krishi Vigyan Kendra, Junagadh Agricultural University, Jamnagar	Member Secretary

Sr. No.	Name & Designation	Position
22	Dr. K.P. Baraiya, SMS, Plant Protection, KVK, JAU, Jamnagar	
23	Shri P.S. Gorfad, SMS, KVK, JAU, Jamnagar	
24	Smt. Anjanaben K. Baraiya, SMS, KVK, JAU, Jamnagar	
25	Dr. J.N. Thaker, SMS, KVK, JAU, Jamnagar	

Dr. P. R. Padhar, Research Scientist (Pearl Millet), Pearl Millet Research Station, JAU, Jamnagar welcomed the dignitaries and all the members of the Scientific Advisory Committee and highlighted the brief achievements of the centre.

Dr. A. R. Pathak, Hon'ble Vice-Chancellor and Chairman of Scientific Advisory Committee chaired the meeting.

After garlanding the guests and dignitaries on the Dias, and inaugurating the meeting by lightening a lamp. Shri H. K. Kandoriya, Programme Coordinator, Krishi Vigyan Kendra, JAU, Jamnagar presented action taken report of the minutes of 10th SAC meeting, progress report (April- 2014 to February-2015) and Action Plan (April 15 to March- 2016) in brief. Dr. K. P. Baraiya, SMS (Plant Protection), KVK, JAU, Jamnagar presented progress report (April- 2014 to February-2015) and Action Plan (April 15 to March- 2016) for discipline of Plant Protection, Agricultural Engineering and Soil Health Fertility Management. Dr. P. S. Gorfad SMS (Ext. Edu.), KVK, JAU, Jamnagar presented progress report (April- 2014 to February-2015) and Action Plan (April 15 to March- 2016) for discipline of horticulture, crop production and capacity building. Dr. J. N. Thaker, SMS (Fisheries), KVK, JAU, Jamnagar presented progress report (April- 2014 to February-2015) and Action Plan (April 15 to March- 2016) for discipline of fisheries and animal science. Smt. A. K. Baraiya, SMS (Home Science), KVK, JAU, Jamnagar presented progress report (April- 2014 to February-2015) and Action Plan (April 15 to March- 2016) for discipline of home science.

Suggestions made by committee members during presentation:

1.	Dr. A. R. Pathak, Hon'ble Vice Chancellor, Junagadh Agricultural University, Junagadh & Chairman of the SAC suggested to keep soil testing laboratory in working condition as possible as earliest. He suggested that FLD should be conducted on vegetable varieties released by JAU. He also advises to spread new technologies through maximum front line demonstration in cluster. He emphasizes to conduct more number of FLD on bioproducts in other schemes.
2.	Dr. A. M. Parakhia, Director of Extension Education, JAU, Junagadh advice that more number of villages should be cover in maximum FLD. It should be in cluster. He also suggested to arrange FLD on sea weed fertilizer for horticultural crops.

3.	Dr. K. N. Akbari, Associate Director of Research (North Saurashtra Agro-climatic Zone) and Research Scientist (DF), Dry Farming Research Station, JAU, Targhadia suggested to application of potash in FLD as per soil testing report.
4.	Shri Hirabhai Nakum, a progressive farmer suggested to sale bioproducts by KVK.

Dr. A.M. Parakhia, Directorate of Extension Education, JAU, Junagadh delivered the special remarks. He appreciates work done by the KVK and give identity of KVK by work speciality.

He gives more emphases on the convergence of KVK activity with other line department. He also suggested to study the impact of operational villages after completion of five years.

After above suggestions from the house Dr. A. R. Pathak, Hon'ble Vice Chancellor, Junagadh Agricultural University, Junagadh, delivered the chairmen's remarks. He emphasizes on use of bioproduct for protection of environment and promotes organic farming. He also point out for more concentrate on water harvesting. He noted that printed writing pad of KVK should provide to farmer along with contact number of SMS and their speciality. He also suggested to provide kit of leafy vegetable for kitchen gardening during training of farm women.

The meeting ended with the vote of thanks by Dr. K. P. Baraiya, Subject Matter Specialist, KVK, J.A.U., Jamnagar.

Member Secretary, SAC &
Programme Coordinator
Krishi Vigyan Kendra
Junagadh Agricultural University
Jamnagar

Director of Extension Education,
Junagadh Agricultural University
Junagadh

Note: Proceeding for approval please.

Chairman, SAC
KVK, JAU, Jamnagar
&
Vice Chancellor
Junagadh Agricultural University
Junagadh

ANNEXURE-II

DETAILS OF TRAINING PROGRAMMES CONDUCTED DURING 2014-15

Sr. No.	Date	Client	Title of Training Programme	Discipline	Thematic area	Duration	Vanue (On/ Off Campus)	No. of Participant								
								General			SC/ST			Total		
								M	F	T	M	F	T	M	F	T
1	24.04.14	PF	Importance of soil testing and fertility management	Soil	Soil testing	1	On	5	0	5	9	0	9	14	0	14
2	25.04.14	PF	IPM, ICM in groundnut, sesame. Crop Planning for harif	PP	IPM, ICM	1	On	9	0	9	6	0	6	15	0	15
3	6.5.14	PF	Soil management and importance of soil testing	Soil	Soil testing	1	Off	25	0	25	0	0	0	25	0	25
4	17.05.14	EF	ICM in kharif crop preseasonal training	Ext. Func.	Ext. Func.	1	On	13	1	14	10	0	10	23	1	24
5	30.5.14	FW	Use of solar cooker	Home Sci.	Solar cooker	1	Off	0	9	9	0	3	3	0	12	12
6	31.5.14	FW	Awareness regarding malnutrition in farmwomen and children & nutritional balance diet	Home Sci.	Malnutrition	1	Off	0	18	18	0	8	8	0	26	26
7	4.6.14	FW	Value addition in mango	Home Sci.	Value addition	1	Off	0	25	25	0	7	7	0	32	32
8	4-5.6.14	RY	Preservation of mango	Home Sci.	Vocational	2	Off	0	26	26	0	4	4	0	30	30
9	6.6.14	FW	Drudgery reduction technology	Home Sci.	Drudgery reduction	1	Off	0	12	12	0	4	4	0	16	16
10	8.6.14	PF	Importance nad technique of cage culture and pen culture	Fisheries	Fisheries	1	On	22	0	22	0	0	0	22	0	22
11	11.6.14	PF	Value Addition through Crab fattening	Fisheries	Value addition	1	Off	19	0	19	0	0	0	19	0	19
12	12.6.14	PF	Production technology of major kharif crops	Crop Prod.	Crop Prod.	1	On	15	0	15	0	0	0	15	0	15
13	15.6.14	PF	Soil sampling methods and fertility management	Soil	Soil sampling	1	Off	530	20	550	220	10	230	750	30	780
14	18.6.14	PF	Scientific crop production of Kharif crops	Crop Prod.	Crop Prod.	1	On	12	0	12	3	0	3	15	0	15
15	18.6.14	PF	Integrated pest management in groundnut	PP	IPM	1	Off	15	0	15	0	0	0	15	0	15
16	27.6.14	PF	Production technology o Kharif crops	Crop Prod.	Crop Prod.	1	On	11	0	11	1	0	1	12	0	12
17	27.6.14	PF	Mix culture of carp spp. with fresh water prawn	Fisheries	Fisheries	1	Off	17	5	22	0	0	0	17	5	22
18	27.6.14	PF	Use of ICT in Agriculture	Cap.Building	ICT	1	On	16	0	16	7	0	7	23	0	23
19	11.7.14	PF	Use of Plastick mulch in farming practices	Ag. Engg.	Mulching	1	Off	86	12	98	104	18	122	190	30	220
20	22.07.14	PF	Malnutrition in farm women and children &	Home Sci.	Malnutrition	1	On	0	18	18	0	26	26	0	44	44

21	23.7.14	PF	To create awareness about the animal Husbandary and new technique in clean milk production among the farm women	Animal Husb.	Milk	1	On	6	99	105	0	0	0	6	99	105
22	23.07.14	PF	Malnutrition in farm women and children & nutritional balance diete	Home Sci.	Milk	1	On	0	18	18	0	26	26	0	44	44
23	23.7.14	FW	IPM, IDM in vegetable & field crops	PP	Vocational IPM,IDM	1	On	0	30	30	0	75	75	0	105	105
24	24.7.14	PF	To create awareness about the animal Husbandary and new technique in clean milk production among the farm women	Animal Husb.	Milk	1	On	4	74	78	0	0	0	4	74	78
25	24.7.14	FW	Preservation of Fruit and vegetable	Home Sci.	Preservation	1	On	0	78	78	0	0	0	0	78	78
26	25.7.14	PF	To create awareness about the animal Husbandary and new technique in clean milk production among the farm women	Animal Husb.	Milk	1	On	0	80	80	0	0	0	0	80	80
27	25.7.14	FW	Preservation of Vegetables and fruits	Home Sci.	Vocational	1	On	0	78	78			0	0	78	78
28	25.7.14	FW	IPM, IDM in vegetable & field crops	PP	IPM, IDM	1	On	0	58	58	0	22	22	0	80	80
29	27.7.14	PF	Integrated pest and disease management in summer crops	PP	IPM, IDM	1	Off	0	0	0	48	0	48	48	0	48
30	30.7.14 to 1.8.14	PF	Integrated Nutrient management	Soil	INM	3	On	18	0	18	11	0	11	29	0	29
31	4.8.14	PF	Integrated farming & IPM, IDM, ICM in field crops	PP	IPM, IDM, ICM	1	On	8	8	16	17	17	34	25	25	50
32	14-16.8.14	Student	Field production technique in practical utility	RY	RY	3	On	12	0	12	9	0	9	21	0	21
33	27-28.8.14	Student	Field production technique in practical utility	RY	RY	2	On	8	0	8	6	0	6	14	0	14
34	21-23.8.14	EF	Importance of soil testing nd fertility management	Ext. Func.	Ext. Func.	3	On	11	1	12	12	0	12	23	1	24
35	2.9.14	PF	Management of store grain pest in groundnut and pulse crop	PP	IPM, IDM	1	Off	21	0	21	0	0	0	21	0	21
36	4.9.14	FW	Drudgery reduction technology	Home Sci.	Drudgery reduction	1	Off	0	30	30	0	4	4	0	34	34
37	6.9.14	PF	Water Management through MIS Horticultural crops	Crop Prod.	WM, MIS	1	Off	35	0	35	2	0	2	37	0	37
38	6.9.14	PF	Integrated Nutrient management	Soil	INM	1	Off	15	0	15	0	0	0	15	0	15
39	6.9.14	PF	Installation, maintenance and fertigation through MIS	Ag. Engg.	MIS	1	Off	0	0	0	19	0	19	19	0	19
40	11.9.14	PF	Information sources for Agricultural Development	Cap. Building	Cap. Building	1	Off	38	0	38	7	0	7	45	0	45
41	12.9.14	PF	Development of small scale ornamental fish hetchery	Fisheries	Fisheries	1	Off	19	8	27	0	0	0	19	8	27

42	15.9.14	PF	Leadership development	Cap. Building	Cap. Building	1	On	15	0	15	0	0	0	15	0	15
43	16-18.9.14	PF	Biological control major for pest & Diseases	PP	Biological control	3	On	30	0	30	0	0	0	30	0	30
44	18-20.9.14	PF	Use of Plastic Mulch in farming practices	Ag. Engg.	Mulching	3	On	25	0	25	0	0	0	25	0	25
45	18-20.9.14	PF	Importance of major & Micro Nutrient in crop production	Soil	Nutrients	3	On	0	0	0	35	0	35	35	0	35
46	13-15.10.14	PF	Repair and maintenance with practical utility of Micro Irrigation System (MIS) in field crop	Ag. Engg.	MIS	3	On	27	0	27	0	0	0	27	0	27
47	14.10.14	FW	Women and child care	Home Sci.	Women & child care	1	On	0	0	0	0	28	28	0	28	28
48	14.10.14	FW	IPM in Field crops	PP	IPM	1	On	0	0	0	0	28	28	0	28	28
49	28.10.14	PF	IDM, IPM & Crop planning for rabi season	PP	IDM, IPM	1	On	15	0	15	0	0	0	15	0	15
50	28.10.14	PF	Group Dynamics	Cap. Building	Cap. Building	1	On	28	0	28	5	0	5	33	0	33
51	12.11.14	PF	IPM in cotton and sesame	PP	IPM	1	Off	58	0	58	29	0	29	87	0	87
52	13.11.14	PF	Management of diseases in *kharif* crops	PP	IDM	1	Off	28	22	50	6	2	8	34	24	58
53	14.11.14	PF	IPM and cultivation of pomegranate	PP	IPM	1	On	21	0	21	8	0	8	29	0	29
54	15.11.14	PF	Nutrient use efficiency	Soil	NUE	1	Off	250	0	250	92	0	92	342	0	342
55	20.11.14	PF	Use of improved implements repair and their maintenance	Ag. Engg.	Implements	1	On	35	0	35	30	0	30	65	0	65
56	20-22.11.14	PF	INM, ICM, of rabi crops	Soil	INM, ICM	3	On	0	17	17	0	14	14	0	31	31
57	21.11.14	PF	Use of plastics mulch MIS in farming practices	Ag. Engg.	MIS	1	Off	51	0	51	11	0	11	62	0	62
58	24-27.11.14	PF	New Horizons in Agriculture development for prlant protection	PP	IPM	3	On	26	0	26	3	0	3	29	0	29
59	25.11.14	PF	Development of Entrepreneurship among rural youths	Cap. Building	Cap. Building	1	Off	27	0	27	0	0	0	27	0	27
60	27.11.14	PF	Repairs and maintenance of farm implements	Ag. Engg.	Implements	1	Off	22	0	22	8	0	8	30	0	30
61	27.11.14	PF	Integrated Disease and pest management in cumin and gram	PP	IDM, IPM	1	Off	26	0	26	6	0	6	32	0	32
62	29.11.14	FW	Drudgery reduction technology	Home Sci.	Drudgery reduction	1	Off	0	29	29	0	1	1	0	30	30
63	6.12.14	PF	Organic farming and production of IPM tools	PP	IPM	1	On	86	0	86	35	0	35	121	0	121
64	10.12.14	PF	IPM in vegetable crops	PP	IPM	1	Off	48	0	48	14	0	14	62	0	62
65	16.12.14		Entrepreneurial Development of Farmers	Cap. Building	Cap. Building	1	On	24	0	24	0	0	0	24	0	24
66	17.12.14	PF	Leadership development among rural youth	Cap. Building	Cap. Building	1	Off	29	0	29	0	0	0	29	0	29

67	22.12.14	PF	Importance of composite fish culture of Indian major carp & exotic carp spp.	Fisheries	Fisheries	1	Off	12	5	17	0	0	0	12	5	17
68	24.12.14	PF	Use of wasteland in shrimp farming	Fisheries	Fisheries	1	Off	12	5	17	0	0	0	12	5	17
69	30.12.14	PF	Pest and diseases in vegetable and fruit crops	PP	IPM, IDM	1	On	0	22	22	0	30	30	0	52	52
70	30.12.14	PF	Create awareness about environment protection among fisherman	Fisheries	Fisheries	1	Off	25	0	25	0	0	0	25	0	25
71	5.1.15	PF	IDM in Rabi crops	PP	IDM	1	On	23	0	23	12		12	35	0	35
72	5.1.15	RY (Students)	Food processing and value addition	RY	Value addition	1	On	112	124	236	156	217	373	268	341	609
73	6.1.15	PF	IPM, IDM, INM in Field crops	PP	IPM, IDM, INM	1	On	48	0	48	32	0	32	80	0	80
74	7.1.15	FW & RY	Value addition in Fruit & Vegetale	Home Sci.	RY	1	Off	0	43	43	0	3	3	0	46	46
75	7.1.15	PF	Operation and maintenance of farm implements	Ag. Engg.	Implements	1	Off	42	0	42	4	0	4	46	0	46
76	7.1.15	PF	IPM, IDM, INM in Rabi crops	PP	IPM, IDM, INM	1	On	57	0	57	33	0	33	90	0	90
77	8.1.15	PF	Soil sampling and fertility management	Soil	Fertility Management	1	On	43	0	43	22	0	22	65	0	65
78	8.1.15	FW	Value addition in agricultural produce	Home Sci.	Value addition	1	On	0	12	12	0	3	3	0	15	15
79	9.1.15	PF	IPM in Rabi crops	PP	IPM	1	On	53	0	53	7	0	7	60	0	60
80	10.1.15	PF	Water Management through MIS	Crop Prod.	WM, MIS	1	Off	35	0	35	5	0	5	40	0	40
81	12.1.15	PF	IPM in Rabi crops	PP	IPM	1	On	32	0	32	13	0	13	45	0	45
82	13.1.15	PF	Integrated diseases management in rabi crops	PP	IDM	1	Off	35	28	63	19	8	27	54	36	90
83	16.1.15	PF	Integrated pest management in fruit and vegetable	PP	IPM	1	Off	100	0	100	0	0	0	100	0	100
84	19.1.15	PF	Capacity building of self help groups	Cap. Building	Cap. Building	1	Off	33	0	33	7	0	7	40	0	40
85	21.1.15	PF	Need of Today Micro irrigation system	Crop Prod.	MIS	1	Off	30	0	30	0	0	0	30	0	30
86	31.1.15	PF	INM, ICM, Field Visit and KVK information	RY	INM, ICM	1	On	4	0	4	13	0	13	17	0	17
87	10.2.15	PF	To create awareness about environment protection among fishermen	Fisheries	Fisheries	1	On	19	8	27	0	0	0	19	8	27
88	12.2.15	PF	Production technology of spices and condiments	Crop Prod.	Crop Prod.	1	Off	30	0	30	0	0	0	30	0	30
89	12.2.15	PF	Efficient use of water through micro irrigation system	Ag. Engg.	MIS	1	Off	25	0	25	0	0	0	25	0	25
90	13.2.15	Student	INM, ICM, Field Visit and KVK information	RY	INM, ICM	1	On	28	0	28	6	0	6	34	0	34
91	16.2.15	PF	Rearing techniques of ornamental fish, fish production and value addition	Fisheries	RY	1	Off	19	1	20	0	0	0	19	1	20

92	19.2.15	FW	Importance of balane diet and anemia	Home Sci.	Balane diet	1	Off	0	28	28	0	2	2	0	30	30
93	23-25.2.15	PF	IPM in summer crop	PP	IPM	3	On	30	0	30	0	0	0	30	0	30
94	25.2.15	PF	Scientific cultivation of summer crops	Crop Prod.	Crop Prod.	1	Off	14	0	14	5	7	12	19	7	26
95	25.2.15	FW	Importance of balane diet and anemia	Home Sci.	Balane diet	1	Off	0	29	29	0	1	1	0	30	30
96	25.2.15	PF	Organic farming and IPM in vegetable crops	PP	IPM	1	Off	65	17	82	5	2	7	70	19	89
97	25.2.15	PF	Seaweed collectin, culture and preparation of seaweed fertilizer	Fisheries	RY	1	Off	21	0	21	4	0	4	25	0	25
98	26.2.15	FW	Balance diet and importance of Nutrition	Home Sci.	Balane diet	1	Off	15	98	113	2	11	13	17	109	126
99	26.2.15	PF	Improved implements	Ag. Engg.	Implements	1	Off	12	76	88	2	5	7	14	81	95
100	27.2.15	PF	Cultivation of Horticultural crops	Crop Prod.	Fruit Crop	1	Off	0	30	30	0	0	0	0	30	30
101	28.2.15	PF	Organic farming and IPM in summer crops	PP	IPM	1	Off	33	0	33	0	0	0	33	0	33
102	10.3.15	PF	Recycling of farm waste and its importance	Crop Prod.	FWM	1	Off	30	0	30	0	0	0	30	0	30
103	10.3.15	PF	Development of small scale ornamental fish hatchery	Fisheries	RY	1	On	15	7	22	0	0	0	15	7	22
104	12.3.15	FW	Rural Craft	Home Sci.	Rural Craft	1	On	2	25	27	0	8	8	2	33	35
105	17.3.15	PF	Organic farming and production of IPM tools	PP	IPM	1	On	30	0	30	0	0	0	30	0	30
106	18.3.15	PF	Scientific crop production of summer crops	Crop Prod.	Crop Prod.	1	Off	30	0	30	0	0	0	30	0	30
107	18.3.15	PF	Organic farming and IPM in summer crops	PP	IPM	1	Off	56	0	56	6	0	6	62	0	62
108	19.3.15	PF	Organic farming and IPM in summer crops	PP	IPM	1	Off	85	0	85	27	0	27	112	0	112
109	20.3.15	PF	Skill development for value addition in fisheries sector	Fisheries	Fisheries	1	Off	12	5	17	0	0	0	12	5	17
110	30.3.15	PF	Importance and techniques for cage culture and pen culture	Fisheries	Fisheries	1	Off	26	0	26	0	0	0	26	0	26
111	25.3.15	PF	Organic farming and IPM in summer crops	PP	IPM	1	On	23	25	48	11	0	11	34	25	59
								3177	**1364**	**4541**	**1164**	**594**	**1758**	**4341**	**1958**	**6299**

ANNEXURE – III

FRONT LINE DEMONSTRATION:

Details of each technology demonstrated through Front LineDemonstrationtobe furnished in the following formatseparately along with raw data

Tobe furnished for every technologyseparately for each category i.e. cereals, horticultural crops, oilseeds, pulses, cotton, commercial crops, farm implements, livestock and fishery enterprises, home science technologies, other enterprise.

1.Cotton

1) Productionsystem :-Rainfed
2) ProblemDefinition :- IPM
3) Title of the technology demonstrated :-Integrated Pest Management
4) Thematic area :-Pest and Disease infestation
5) Year of release of the technologyor Year of assessment :-Year - 2006
6) Source of technology :- Cotton Research Station, JAU, Junagadh
7) Raw data about the performance of the demonstrated technology

No.	Name of Farmer	Village	Block	Mobile No.	GPS Number	
					N	E
1	Chovatiya Rasikbhai Popatbhai	Kalyanpur	Jamjodhpur	9687858522	22^{0}02'25.6"	070^{0}09'34.3"
2	Parsana Mansukhbhai Jagabhai	Kalyanpur	Jamjodhpur	9427770591	22^{0}01'40.1"	070^{0}08'37.2"
3	Bhalara Ashokbhai Naranbhai	Kalyanpur	Jamjodhpur	9909442089	22^{0}02'30.6"	070^{0}08'09.2"
4	Bhalara Sharadbhai Maganbhai	Kalyanpur	Jamjodhpur	9898897187	22^{0}02'06.1"	070^{0}09'19.2"
5	Panchal Arvindbhai Arjanbhai	Kalyanpur	Jamjodhpur	9427764543	22^{0}02'10.8"	070^{0}09'53.9"
6	Dalsaniya Ashwinbhai Bachubhai	Soyal	Dhrol	9909913501	22^{0}33'51.4"	070^{0}21'09.5"
7	Chavda Jagdishbhai Pethabhai	Soyal	Dhrol	9725163116	22^{0}33'35.1"	070^{0}20'44.0"
8	Kagathara Lakhman Bhimabhai	Soyal	Dhrol	9601295417	22^{0}33'54.7"	070^{0}21'05.6"
9	Dalsaniya Amratlal Madhavji	Soyal	Dhrol	9913987033	22^{0}33'43.1"	070^{0}21'00.3"
10	Dalsaniya Nareshbhai Bachubhai	Soyal	Dhrol	9913925304	22^{0}34'03.1"	070^{0}21'20.9"
11	Ladani Pravinbhai Ramjibhai	Udepur	Jamjodhpur	9712940741	21^{0}46'32.2"	069^{0}53'18.1"
12	Khant Bhanjibhai Madhabhai	Udepur	Jamjodhpur	9825719054	21^{0}47'08.2"	069^{0}53'48.5"
13	Beriya Govindbhai Devsibhai	Udepur	Jamjodhpur	9979027404	21^{0}47'02.3"	069^{0}53'53.1"
14	Bharvadiya Hamirbhai Maldebhai	Udepur	Jamjodhpur	9879038214	21^{0}46'35.4"	069^{0}53'18.4"
15	Ladani Chandulal Mohanbhai	Udepur	Jamjodhpur	9723606747	21^{0}46'28.6"	069^{0}53'13.8"
16	Shilu Dilipbhai Shamjibhai	Ghunda	Jamjodhpur	8980238528	22^{0}03'50.7"	069^{0}57'55.3"
17	Shilu Dashrathbhai Shamjibhai	Ghunda	Jamjodhpur	9712197069	22^{0}04'23.6"	069^{0}58'23.5"
18	Aher Merangbhai Vejanadbhai	Udepur	Jamjodhpur	9624999272	21^{0}47'42.5"	069^{0}54'57.3"
19	Hansaben Naranbhai	Udepur	Jamjodhpur	7874095651	21^{0}46'35.7"	069^{0}53'16.8"
20	Karmur Maniben Jethabhai	Udepur	Jamjodhpur	9624726292	21^{0}67'02.1"	069^{0}53'47.5"
21	Beriya Karshanbhai Bhimsibhai	Udepur	Jamjodhpur	9909441769	21^{0}47'28.7"	069^{0}54'21.4"
22	Kambariya Karshanbhai N.	Udepur	Jamjodhpur	9638868878	21^{0}46'58.5"	069^{0}53'55.3"
23	Sagar Jesabhai Nathubhai	Ghelda	Jamjodhpur	9979625728	22^{0}02'29.6"	069^{0}58'13.8"
24	Shir Bhimsibhai Rajabhai	Ghelda	Jamjodhpur	9978351784	22^{0}02'20.8"	069^{0}57'59.2"
25	Solanki Ramdebhai Naranbhai	Ghelda	Jamjodhpur	9727855640	22^{0}02'31.7"	069^{0}58'11.4"

Please specify the indicators 1,2,3 and 4 inaddition to yield other parameters should be indicated

In case of more indicators, please prioritize and analyze only three important common indicators collected from all the farmers implementing this demonstration

8) Finalrecommendation for micro level situation

9) Constraints identified and feedback for research

10) Process of farmers participation and their reaction

2. Groundnut (White Grub control)

1) Productionsystem :- Rainfed
2) ProblemDefinition :- Management of White Grub
3) Title of the technology demonstrated :- Integrated Pest Management
4) Thematic area :- IntegratedPest Management
5) Year of release of the technologyor Year of assessment :- Year - 1999
6) Source of technology :- Oil seed research station, JAU, Jamnagar
7) Raw data about the performance of the demonstrated technology

No.	Name of Farmer	Village	Block	Mobile No.	GPS Number	
					N	E
1	Karena Hamirbhai Ambabhai	Vasantpur	Jamjodhpur	9427142312	21^{0}55'58.6"	069^{0}58'53.6"
2	Shir Ramsibhai Pethabhai	Vasantpur	Jamjodhpur	9913967131	21^{0}57'04.9"	069^{0}58'38.5"
3	Karena Nathabhai Lakhabhai	Vasantpur	Jamjodhpur	9925590692	21^{0}55'52.1"	069^{0}58'50.0"
4	Rabari Dayabhai Lakhabhai	Vasantpur	Jamjodhpur	-	21^{0}55'55.7"	069^{0}58'42.7"
5	Sagar Vimleshbhai Jadavbhai	Vasantpur	Jamjodhpur	9429141896	21^{0}55'52.2"	069^{0}58'46.5"
6	Rabari Mandabhai Lakhabhai	Vasantpur	Jamjodhpur	9913505748	21^{0}55'53.0"	069^{0}58'43.3"
7	Ranmalbhai Ambabhai	Vasantpur	Jamjodhpur	9879743386	21^{0}55'56.8"	069^{0}58'53.4"
8	Nagabhai Rudabhai	Vasantpur	Jamjodhpur	9727658486	21^{0}55'44.9"	069^{0}59'52.6"
9	Kantaben Jivabhai	Vasantpur	Jamjodhpur	-	21^{0}57'05.9"	069^{0}58'40.8"
10	Viramgama Harsukh Tarsibhai	Anda	Jodiya	9913987110	22^{0}38'50.5"	070^{0}19'37.5"
11	Viramgama Shailesh Tarsibhai	Anda	Jodiya	9426844298	22^{0}38'49.3"	070^{0}19'35.2"
12	Patel Kurjibhai Vasrambhai	Anda	Jodiya	9428237942	22^{0}38'51.9"	070^{0}19'42.9"
13	Viramgama Avcharbhai Odhabhai	Anda	Jodiya	9426781147	22^{0}38'51.5"	070^{0}25'39.5"
14	Koli Devabhai Dharamsibhai	Kadbal	Jamjodhpur	9924245198	21^{0}58'07.1"	070^{0}02'31.3"
15	Barai Sanabhai Palabhai	Kadbal	Jamjodhpur	9578008596	22^{0}58'11.0"	070^{0}02'38.7"
16	Vayru Nathabhai Kanabhai	Kadbal	Jamjodhpur	9427247036	21^{0}58'06.9"	070^{0}02'33.5"
17	Kambariya Bhimabhai Nathabhai	Kadbal	Jamjodhpur	-	21^{0}58'06.4"	070^{0}02'32.6"
18	Gadhiya Shaileshbhai Dayaljibhai	Manekpar	Dhrol	9228259725	22^{0}36'33.6"	070^{0}27'21.9"
19	Patel Gordhanbhai Valjibhai	Manekpar	Dhrol	9879503833	22^{0}36'04.8"	070^{0}26'20.4"
20	Gadhiya Ganeshbhai Popatbhai	Manekpar	Dhrol	9274872599	22^{0}36'38.7"	070^{0}27'25.6"

21	Sapariya Dayaljibhai Mohanbhai	Manekpar	Dhrol	9428806376	22^{0}36'28.6"	070^{0}26'53.6"
22	Bhanderi Shantilal Bhavanbhai	Manekpar	Dhrol	9228259725	22^{0}36'11.4"	070^{0}26'29.4"
23	Patel Gandulalbhai Laljibhai	Manekpar	Dhrol	9979959157	22^{0}36'05.4"	070^{0}26'33.7"
24	Nasit Bhavanbhai Mavjibhai	Manekpar	Dhrol	9979035237	22^{0}36'30.2"	070^{0}27'20.6"
25	Gadhiya Mohanbhai Vashrambhai	Manekpar	Dhrol	9978289882	22^{0}36'25.4"	070^{0}26'50.5"

Please specify the indicators 1,2,3 and 4 inaddition to yield other parameters should be indicated

In case of more indicators please prioritize and analyze only three important common indicators collected from all the farmers implementing this demonstration

8) Finalrecommendation for micro level situation

9) Constraints identified and feedback for research

10) Process of farmers participation and their reaction

3. Groundnut (NPV)

1) Productionsystem :- Rainfed
2) ProblemDefinition :- Management of Sucking pest
3) Title of the technology demonstrated :- Integrated Pest Management
4) Thematic area :- Integrated Pest Management
5) Year of release of the technologyor Year of assessment :- Year - 1999
6) Source of technology :- Oil seed research station, JAU, Jamnagar
7) Raw data about the performance of the demonstrated technology

No.	Name of Farmer	Village	Block	Mobile No.	GPS Number	
					N	E
1	Chaniyara Dharamsi Valjibhai	Mavapar	Dhrol	9879065284	22^{0}36'27.0"	070^{0}23'29.2"
2	Gopani Gandubhai Ranchhodbhai	Mavapar	Dhrol	9925584560	22^{0}36'20.8"	070^{0}23'30.7"
3	Gopani Jasmatbhai Nathabhai	Mavapar	Dhrol	9925584550	22^{0}35'42.9"	070^{0}23'53.1"
4	Chaniyara Vallabhbhai Motibhai	Mavapar	Dhrol	9879065284	22^{0}36'35.5"	070^{0}23'26.2"
5	Gopani Nathabhai Ranchhodbhai	Mavapar	Dhrol	-	22^{0}36'32.2"	070^{0}23'27.2"

Please specify the indicators 1,2,3 and 4 inaddition to yield other parameters should be indicated

In case of more indicators please prioritize and analyze only three important common indicators collected from all the farmers implementing this demonstration

8) Finalrecommendation for micro level situation

9) Constraints identified and feedback for research

10) Process of farmers participation and their reaction

4. Groundnut (Trichoderma)

1) Productionsystem :- Rainfed
2) ProblemDefinition :- Management of stem rot
3) Title of the technology demonstrated :- Integrated Pest Management
4) Thematic area :- IntegratedDisease Management
5) Year of release of the technologyor Year of assessment :- Year - 1999
6) Source of technology :- Oil seed research station, JAU, Jamnagar
7) Raw data about the performance of the demonstrated technology

No.	Name of Farmer	Village	Block	Mobile No.	GPS Number	
					N	E
1	Makvana Naranbhai Kanabhai	Manpar	Jodiya	8980061213	22^{0}42'20.0"	070^{0}25'42.9"
2	Makvana Maheshbhai Nagjibhai	Manpar	Jodiya	9909215440	22^{0}42'36.3"	070^{0}25'28.4"
3	Chotaliya Jagdishbhai Damjibhai	Manpar	Jodiya	9925823145	22^{0}42'29.1"	070^{0}25'49.3"

4	Gohel Prabhulal Harilal	Manpar	Jodiya	9824294120	22^{0}42'37.2"	070^{0}25'32.6"
5	Gohel Kantilal Harilal	Manpar	Jodiya	9879997756	22^{0}42'36.5"	070^{0}25'30.6"

Please specify the indicators 1,2,3 and 4 inaddition to yield other parameters should be indicated

In case of more indicators please prioritize and analyze only three important common indicators collected from all the farmers implementing this demonstration

8) Finalrecommendation for micro level situation

9) Constraints identified and feedback for research

10) Process of farmers participation and their reaction

5. Brinjal

1) Productionsystem :-Irrigated
2) ProblemDefinition :-
3) Title of the technology demonstrated :-IntegratedpestManagement in brinjal
4) Thematicarea :-Integrated Pest Management
5) Year of release of the technologyor Year of assessment :-Year - 2006
6) Source of technology :- Vegetable Research Station, JAU, Junagadh
7) Raw data about the performance of the demonstrated technology

No.	Name of Farmer	Village	Block	Mobile No.	GPS Number	
					N	E
1	Kanzariya Jayaben Karshanbhai	Pipartoda	Lalpur	9662285930	22^{0}17'55.3"	070^{0}05'21.7"
2	Jatiya Kamuben Kathadbhai	Dadiya	Jamnagar	9427243505	22^{0}23'49.4"	070^{0}05'51.1"
3	Makvana Pababhai Khetabhai	Dadiya	Jamnagar	9723942300	22^{0}23'44.6"	070^{0}05'44.0"
4	Jadeja Dashrathsinh Mahipatsinh	Memana	Lalpur	9427256664	22^{0}13'55.8"	070^{0}03'48.1"
5	Jadeja Nirubha Bhovansinh	Memana	Lalpur	9879630161	22^{0}15'10.4"	070^{0}02'09.4"

Please specify the indicators 1,2,3 and 4 inaddition to yield other parameters should be indicated

In case of more indicators please prioritize and analyze only three important common indicators collected from all the farmers implementing this demonstration

8) Finalrecommendation for micro level situation

9) Constraints identified and feedback for research

10) Process of farmers participation and their reaction

7. Chillli

1) Productionsystem :-Irrigated
2) ProblemDefinition :-Title of the technology demonstrated IntegratedpestManagement in chillie
3) Thematic area :-Integrated Pest Management
4) Year of release of the technologyor Year of assessment :-Year - 2001
6) Source of technology :- Vegetable Research Station, JAU, Junagadh
7) Raw data about the performance of the demonstrated technology

No.	Name of Farmer	Village	Block	Mobile No.	GPS Number	
					N	E
1	Jadeja Omdevsinh Dharmendrasinh	Memana	Lalpur	9638065073	22^{0}13'38.9"	070^{0}03'09.5"
2	Jadeja Mahavirsinh Prabhatsinh	Memana	Lalpur	9537853512	22^{0}14'14.7"	070^{0}02'28.6"
3	Jadeja Sukhubha Bapubha	Memana	Lalpur	9979022802	22^{0}15'12.2"	070^{0}02'15.7"
4	Kanzariya Raliben Bhagvanjibhai	Pipartoda	Lalpur	9879081250	22^{0}17'56.7"	070^{0}05'20.7"
5	Talaviya Jamanbhai Parshotambhai	Pipartoda	Lalpur	9925391057	22^{0}15'59.2"	070^{0}05'35.9"

Please specify the indicators 1,2,3 and 4 inaddition to yield other parameters should be indicated

In case of more indicators please prioritize and analyze only three important common indicators collected from all the farmers implementing this demonstration

8) Finalrecommendation for micro level situation

9) Constraints identified and feedback for research

10) Process of farmers participation and their reaction

8. Wheat

1) Productionsystem :-Irrigated
2) ProblemDefinition :- Low yield of wheat
3) Title of the technology demonstrated :-varietal difference
4) Thematic area :-Variety assessment (GW-496)
5) Year of release of the technologyor Year of assessment :-Year - 2007
6) Source of technology :- Wheat Research Station, JAU, Junagadh
7) Raw data about the performance of the demonstrated technology

No.	Name of Farmer	Village	Block	Mobile No.	GPS Number	
					N	E
1	Patel Rasilaben Bhaveshbhai	Soyal	Dhrol	9913925304	22^{0}33'41.6"	70^{0}21'27.8"
2	Nandasana Dayaljibhai Ranchhodbhai	Anda	Jodiya	9913036088	22^{0}38'06.6"	70^{0}18'56.3"
3	Vadi Maheshbhai Narsibhai	Bodi	Kalavad	9712765482	22^{0}09'18.5"	70^{0}13'14.0"
4	Lunagariya Ashwinbhai Chanabhai	Laxmipur	Kalavad	9925687226	22^{0}13'38.6"	70^{0}18'10.8"
5	Sakhiya Dhirajlal Thakarshibhai	Laxmipur	Kalavad	9974230938	22^{0}14'17.1"	70^{0}17'54.1"
6	Lunagariya Bhavanbhai Chanabhai	Laxmipur	Kalavad	9879151385	22^{0}13'28.6"	70^{0}17'57.9"
7	Piprotar Hajabhai Arsibhai	Zinavari	Jamjodhpur	9714718793	22^{0}01'24.7"	69^{0}54'55.4"
8	Faldu Jivrajbhai Valjibhai	Chelabedi	Kalavad	9099756603	22^{0}10'14.9"	70^{0}12'50.8"
9	Karsariya Jamanbhai Dhanabhai	Chelabedi	Kalavad	9925085833	22^{0}10'17.0"	70^{0}12'58.0"
10	Faldu Jasmatbhai Valjibhai	Chelabedi	Kalavad	9825516861	22^{0}10'19.9"	70^{0}12'51.1"
11	Jadeja Mayaba Bapubha	Memana	Lalpur	9979022802	22^{0}15'06.8"	70^{0}02'16.8"
12	Varaniya Amrutben Jivanbhai	Kadbal	Jamjodhpur	9924245198	21^{0}58'11.1"	70^{0}02'30.7"
13	Ramoliya Dhanjibhai Virjibhai	Limbuda	Jodiya	9979932707	22^{0}37'27.5"	70^{0}17'19.3"
14	Jadeja Nathubha Motisang	Memana	Lalpur	-	22^{0}13'51.0"	70^{0}02'29.7"
15	Jadeja Dilubha Lakhubha	Memana	Lalpur	8140107510	22^{0}14'59.3"	70^{0}02'11.0"
16	Jadeja Janakba Akhubha	Memana	Lalpur	95376549	22^{0}14'48.2"	70^{0}02'43.9"
17	Chaniyara Lavjibhai Sundarjibhai	Lakhtar	Jodiya	9427421437	22^{0}39'00.9"	70^{0}22'51.3"
18	Koli Ashokbhai Bhanabhai	Kadbal	Jamjodhpur	9737018717	21^{0}58'07.7"	70^{0}02'34.2"
19	Vadecha Ranabhai Bhojabhai	Kadbal	Jamjodhpur	9904691582	21^{0}58'09.2"	70^{0}02'33.8"
	Koli Gordhanbhai Bhanabhai	Kadbal	Jamjodhpur	9904365793	21^{0}58'13.3"	70^{0}02'35.7"

Please specify the indicators 1,2,3 and 4 inaddition to yield other parameters should be indicated

In case of more indicators, please prioritize and analyze only three important common indicators collected from all the farmers implementing this demonstration

8) Finalrecommendation for micro level situation

9) Constraints identified and feedback for research

10) Process of farmers participation and their reaction

9. Cumin

1) Productionsystem :-Irrigated

2) ProblemDefinition :- Low yield ofcumin
3) Title of the technology demonstrated :-varietal difference
4) Thematic area :-Variety assessment (GC-4)
5) Year of release of the technologyor Year of assessment :-Year - 2007
6) Source of technology :- Spices research station, Jagudan
7) Raw data about the performance of the demonstrated technology

No.	Name of Farmer	Village	Block	Mobile No.	GPS Number	
					N	E
1	Nagpara Rameshchandra Gandubhai	Limbuda	Jodiya	9913135885	$22^0$37'26.4"	$70^0$17'19.1"
2	Bariya Bhavanbhai Premjibhai	Limbuda	Jodiya	9979646433	$22^0$37'05.1"	$70^0$17'51.8"
3	Nagpara Bhagubhai Jivabhai	Limbuda	Jodiya	9925748732	$22^0$36'40.3"	$70^0$18'34.9"
4	Nagpara Harishbhai Bhagvanjibhai	Limbuda	Jodiya	9825642600	$22^0$36'45.4"	$70^0$18'33.5"
5	Karathiya Ramabhai Nagabhai	Zinavari	Jamjodhpur	9638454981	$22^0$00'38.6"	$69^0$56'11.2"
6	Dalsaniya Bhagvatiben Thakarshibhai	Kunad	Jodiya	9427514139	$22^0$39'46.7"	$70^0$18'06.8"
7	Karathiya Pravinbhai Meghabhai	Zinavari	Jamjodhpur	9723133725	$22^0$00'08.8"	$69^0$55'48.2"
8	Nakum Dineshbhai Veljibhai	Soyal	Dhrol	9099596970	$22^0$33'33.2"	$70^0$19'56.3"
9	Dalsaniya Valiben Kanjibhai	Lakhtar	Jodiya	9879235452	$22^0$37'48.9"	$70^0$23'31.8"
10	Boda Becharbhai Motibhai	Lakhtar	Jodiya	9824928525	$22^0$37'50.0"	$70^0$23'36.6"

Please specify the indicators 1,2,3 and 4 inaddition to yield other parameters should be indicated

In case of more indicators, please prioritize and analyze only three important common indicators collected from all the farmers implementing this demonstration

8) Final recommendation for micro level situation
9) Constraints identified and feedback for research
10) Process of farmers participation and their reaction

10. Chick pea

1) Productionsystem :-Irrigated
2) ProblemDefinition :-Low yield of chickpea
3) Title of the technology demonstrated :-Varietal difference
4) Thematic area :-Variety (GG-3)
5) Year of release of the technologyor Year of assessment :-Year - 2008
6) Source of technology :- Pulse research Station, JAU, Junagadh
7) Raw data about the performance of the demonstrated technology

No.	Name of Farmer	Village	Block	Mobile No.	GPS Number	
					N	E
1	Dalsaniya Linaben Ashwinbhai	Soyal	Dhrol	9909001106	$22^0$33'51.9"	$70^0$21'09.4"
2	Patel Nirmalaben Nareshbhai	Soyal	Dhrol	9913925300	$22^0$32'55.6"	$70^0$19'54.4"
3	Kanzariya Dishantbhai Sureshbhai	Nathuvadla	Dhrol	8980482097	$22^0$35'34.6"	$70^0$21'02.9"
4	Parmar Rameshbhai Ganeshbhai	Nathuvadla	Dhrol	898048243	$22^0$35'29.0"	$70^0$20'26.2"
5	Lunagariya Babubhai Chanabhai	Laxmipur	Kalavad	9879997720	$22^0$13'39.8"	$70^0$18'02.7"
6	Parmar Nareshbhai Ambabhai	Soyal	Dhrol	9925189187	$22^0$34'00.2"	$70^0$20'42.6"

7	Nakum Ghelabhai Boghabhai	Soyal	Dhrol	9979463075	22^{0}33'00.0"	70^{0}20'42.5"
8	Parmar Santokben Nathubhai	Dudhai	Jodiya	9727466375	22^{0}47'23.2"	70^{0}30'43.1"
9	Poriya Gordhanbhai Mohanbhai	Dudhai	Jodiya	9727466086	22^{0}47'03.3"	70^{0}28'58.2"
10	Gambhva Manojbhai popatbhai	Dudhai	Jodiya	9978205661	22^{0}46'59.7"	70^{0}28'57.1"
11	Gambhva Kusumben Mukeshbhai	Dudhai	Jodiya	9879661268	22^{0}46'31.0"	70^{0}30'20.3"
12	Gambhva Narbheram Popatbhai	Dudhai	Jodiya	9729772961	22^{0}46'59.3"	70^{0}28'57.8"
13	Gambhva Ladhabhai Raghubhai	Dudhai	Jodiya	9879661268	22^{0}47'21.9"	70^{0}30'54.6"
14	Detroja Arvindbhai Hansrajbhai	Dhrol	Dhrol	9714422590	22^{0}33'12.7"	70^{0}22'56.6"
15	Godhani Prafulbhai Dharamsibhai	Keshiya	Jodiya	9979460778	22^{0}37'17.2"	70^{0}22'53.7"

Please specify the indicators 1,2,3 and 4 inaddition to yield other parameters should be indicated

In case of more indicators please prioritize and analyze only three important common indicators collected from all the farmers implementing this demonstration

8) Finalrecommendationfor micro level situation

9) Constraints identified and feedback for research

10) Process of farmers participation and their reaction

11. Pearl millet

1) Productionsystem :-Rainfed
2) ProblemDefinition :- Low yield of Pearl millet
3) Title of the technology demonstrated :-varietal difference
4) Thematic area :-Variety assessment (GHB-538)
5) Year of release of the technologyor Year of assessment :-Year - 2009
6) Source of technology :- Pearl Millet Research Station, JAU, Junagadh
7) Raw data about the performance of the demonstrated technology

No.	Name of Farmer	Village	Block	Mobile No.	GPS Number	
					N	E
1	Makvana Hirabhai Lakhabhai	Nana Garediya	Dhrol	9825940221		
2	Dangar Hirabhai Narsangbhai	Nana Garediya	Dhrol	9825162352		
3	Balasara Mansukhbhai Bijalbhai	Nana Garediya	Dhrol	9925137592		
4	Kanzariya Bhailalbhai Bhagvanjibhai	Vankiya	Dhrol	9904213930		
5	Kanzariya Nanjibhai Tejabhai	Vankiya	Dhrol	9924269471		
6	Kanzariya Vasangibhai Khimjibhai	Vankiya	Dhrol	8141141622		
7	Kanzariya Dharamsibhai Mohanbhai	Vankiya	Dhrol	9824672404		
8	Kanzariya Jitendrabhai Naranbhai	Vankiya	Dhrol	9824145783		
9	Kanzariya Khimjibhai Bhojabhai	Vankiya	Dhrol	9904213925		
10	Kanzariya Naranbhai Mohanbhai	Vankiya	Dhrol	9824145783		

Please specify the indicators 1,2,3 and 4 inaddition to yield other parameters should be indicated

In case of more indicators, please prioritize and analyze only three important common indicators collected from all the farmers implementing this demonstration

8) Finalrecommendation for micro level situation

9) Constraints identified and feedback for research

10)Process of farmers participation and their reaction

12. Green gram

6) Productionsystem :-Irrigated
7) ProblemDefinition :-Low yield of green gram
8) Title of the technology demonstrated :-Variety and integrated crop management
9) Thematic area :-Integrated Crop Management (GM-4)
10) Year of release of the technologyor Year of assessment :-Year - 2006
6) Source of technology :- Pulse Research Station, JAU, Junagadh
7) Raw data about the performance of the demonstrated technology

No.	Name of Farmer	Village	Block	Mobile No.	GPS Number	
					N	E
1	Bhalodiya Shamjibhai Nagjibhai	Nathuvadla	Dhrol	9978206002		
2	Bhalodiya Girishbhai Kanjibhai	Nathuvadla	Dhrol	9979931880		
3	Bhalodiya Virjibhai Nanjibhai	Nathuvadla	Dhrol	9998523291		
4	Boda Shaileshbhai Dayabhai	Soyal	Dhrol	9925303530		
5	Kanzariya Kantaben Nanjibhai	Vankiya	Dhrol	9904517545		
6	Gopani Jasmatbhai Nathabhai	Mavapar	Dhrol	9925584550		
7	Sadhariya Shivjibhai Ladhabhai	Mavapar	Dhrol	9724653772		
8	Kanani Kantibhai Parshotambhai	Mavapar	Dhrol	9601364344		
9	Shadhariya Amrutlal Shivlal	Mavapar	Dhrol	9978748166		
10	Chaniyara Dharamsi Valjibhai	Mavapar	Dhrol	9879065284		

Please specify the indicators 1,2,3 and 4 inaddition to yield other parameters should be indicated

In case of more indicators please prioritize and analyze only three important common indicators collected from all the farmers implementing this demonstration

8) Finalrecommendation for micro level situation

9) Constraints identified and feedback for research

10) Process of farmers participation and their reaction

ANNEXURE – IV

TRAINING CUM WORKSHOP ATTENDED BY KVK STAFF

Sr. No.	Period	Name of Officer	Title	Venue or Place	Sponsoring Agency	Duration (days)
1	16 to 18 October, 2014	Dr. K. P. Baraiya	Orientation course on "IPM in Important crops with special reference to Gujarat and Rajasthan	Rajasthan Agricultural Research Institute (RARI), Shri Karan Narendra Agricultural University (SKNAU), Jobner (Jaipur-Rajasthan)	ICAR-National Centre for Integrated Pest Management (NCIPM), Pusha New Delhi & Zonal Project director, Zone-VI, Jodhpur (Rajsathan)	3
2	8.10.14	Dr. K. P. Baraiya	Protection of Plant Varieties and Farmers Right Act (PPV&FRA) – Awareness cum training programme	Director of Extension Education, Anand Agricultural University, Anand on 8th October, 2014	Zonal Project Directorate, Zone-VI, Jodhpur (Rajasthan)	1
3	17-19 November, 2014	Dr. K. P. Baraiya, Dr. P. S. Gorfad, Dr. J. N. Thaker	New Horizons in Agricultural Technologies	Director of Extension Education, Junagadh Agricultural University, Junagadh	Director of Extension Education, Junagadh Agricultural University, Junagadh	3
4	17.11.14	Dr. K. P. Baraiya	Formation of Strategies for "Organic Farming in Gujarat" a workshop cum seminar	Director of Extension Education, Junagadh Agricultural University, Junagadh	Director of Extension Education, Junagadh Agricultural University, Junagadh	1
6	7.5.14	Dr. K. P. Baraiya, Dr. P.S. Gorfad, Dr. J. N. Thaker	Orientation training programme for Krishi Mahotsava - 14	Junagadh Agricultural University, Junagadh	Director of Extension Education, Junagadh Agricultural University, Junagadh	1
7	1-3 Nov. 2014	Dr. P. S. Gorfad	Asian Plant Science Conference	Hotel Nirvana, Bhairwaha, Lumbini, NEPAL	SOC. for Applied Bio-technology, Bio-tech Society of Nepal, AABS & EAES	3
8	7-8 Feb. 2015	Dr. P. S. Gorfad, Smt. A. K. Baraiya	National Seminar on "Magnitude of Extension Approaches in Agril. Development"	NAU, Navasari	Society of Extension Education, Gujarat & NAU, Navasari	2
9	5-6 April, 2014	Smt. A. K. Baraiya, Dr. P. S. Gorfad	National Seminar-2014 on "Dimensions of Ext. Education in Holistic development of farmers"	Anand Agricultural University, Anand	SOC. of Ext. Edu. - Gujarat	2
10	21-24 July, 2014	Smt. A. K. Baraiya	Training programme on project Planning Management	SAMETI, Gandhinagar, Gujarat	MANAGE, Hydereabad & SAMETI, Gandhinagar	4
11	8-9, Nov., 2014	Smt. A. K. Baraiya	International Conference on "Strengthening climate justice initiatives : Livelihood challenges at local level with a focus on farmers"	Nirma University, Ahmedabad, Gujarat	NCCSD-National Council for climate change sustainable development and public leadership	2

KRISHI VIGYAN KENDRA,JAU, JAMNAGAR

ANNUAL ACTION PLAN

(APRIL - 2015 TO MARCH-2016)

SUMMARY OF THE ACTIVITIES

Activity	Target	
	Number of activity	No. of farmers/ beneficiaries
OFTs	9	28
FLDs – Oilseeds (activity in ha)	8	20
FLDs – Pulses (activity in ha)	8	20
FLDs – Cotton (activity in ha)	8	20
FLDs – Other than Oilseed and pulse crops(activity in ha)	22	50
FLDs – Other than Crops (activity in no. of Unit/Enterprise)	10	10
Training-Farmers and farm women	57	2325
Training-Rural youths	14	550
Training- Extension functionaries	3	75
Extension Activities	1755	
Seed Production (Number of activity as seeds in quintal)	71	
Rainwater Harvesting System	2	
Kisan Mobile Advisory (KVK-KMA)	20	10000
SAC Meeting (Date & no. of core/ official members)	1	30
Literature to be Developed/Published	17	
Utilization of Staff Quarters	4	4
Crop Cafeteria-	2	
Farm Innovators- list of 10 farm innovators from the District	10	
Case study / Success Story to be developed	4	
KVK Ring	8	
Details of Technology Week Celebrations	1	

1. ON FARM TESTING

1.1 Information about OFT to be conducted

Title of OFT	Year/ season	**Problem diagnose**	Category of technology (**Assessment / Refinement**)	Thematic Area	Crop/ enterprise	Farming Situations	Target	No. of trials

Management of whitegrub in groundnut	2015-16 *Kharif*	Heavy infestation of white grub	Assessment	PLP	Groundnut	Rainfed	3	3
Use of *Trichoderma* for wilt disease in cumin	2015-16 *Rabi*	Heavy infestation of *Sclerotium rolfsii*	Assessment	PLP	Cumin	Irrigated	3	3
Management of sucking pests in Okra	2015-16 *Kharif*	Resurgence of sucking pest	Assessment	PLP	Okra	Irrigated	3	3
Effect of salt and oil on Spoilage of mango pickle	2015-16	Spoilage in mango pickle	Assessment	WOE	Mango	Value addition	3	3
Comparison of solar cooker with traditional cooking system	2015-16	High cost of fuel (gas). Non availability of fire wood due to deforestation	Assessment	WOE	Mango, sweet Potato, sweet corn, khari sing	Value addition	4	4
Evaluation of low cost high calorie & protein diets made from locally available food materials.	2015-16	Imbalance nutritional pattern,	Assessment	WOE	Food Material	Balance diet	3	3
Nutrient management in wheat crop	2015-16 *Rabi*	Nutrient deficiency	Assessment	CP	Wheat	Irrigated	3	3
Pen cultures of Indian Major Carp (IMC) spawn to fry before stocking in village Pond/Reservoir	2015-16	Reduce mortality rate	Assessment	FIS	IMC	Inland Farming	3	3
Stocking of Freshwater prawn (*Macrobrachium rosenbergii*) with IMC fingerlings in village pond/Reservoir	2015-16	Use of natural resources	Assessment	FIS	Fresh water prawn & IMC	Inland Farming	3	3

OFT-1

Title : Management of whitegrub in groundnut

Objective : To manage the whitegrub incidence

Treatments :

1. Injudicious use of pesticides. ***(Farmers Practices).***
2. Recommended dose of Pesticide as chlorpyriphos or quinalphos @ 25 ml/kg seed. Drenching of Chlorpyriphos or quinalphos @ 4 lit/ha as iniciation of pest incidence. ***(*Recommended practices*).***
3. Application of ready mix combination of Imidacloprid 40% + Fipronil 40% @ 2.5 g/kg seed. Drenching of ready mix combination of Imidacloprid 40% + Fipronil 40% @ 250 g/ha as iniciation of pest incidence. **(Refinement-1)**.
4. Soil application of *Beauveria bassiana* @ 5 kg/ha **(Refinement-2)**.

No. of Replication :- 3 (Farmers)

Observations :-

1. Record no.of grub per 1 metre row lenth. 2. Yield data.

OFT-2

Title : Use of *Trichoderma* for wilt disease in cumin

Objective : Application of biological control agent *Trichoderma* for managing the disease problem in cumin.

Treatments :

1. No use of trichoderma or fungicide at the time of sowing. But they use fungicides *viz.,* carbendazim, hexaconazole, difenconazole, fosetyl-AL, tebuconazole, propiconazole, tridemorph, etc after of initiation of diseases. ***(Farmers Practices).***
2. Application of *Trichoderma* @ 5 kg/ha along with FYM @ 1 tonn/ha at the time of sowing with the help of multipurpose seed drill. ***(*Recommended practices*).***
3. Application of *Trichoderma* @ 5 kg/ha along with FYM @ 1 tonn/ha by broadcasting method at 15 days after germination. **(Refinement)**.

No. of Replication :- 3 (Farmers)

Observations :-

4. Per cent plant infestation within 1x1 m^2 quadrate from each plot at 45 days after germination
5. Record yield per hectare.

OFT-3

Title : Management of sucking pests in Okra.

Objective: To minimize the sucking pest in okra.

Treatments :

1. Injudicious of insecticides (Spray insecticides at weekly interval) **(Farmers practices)**
2. Use of bio-pesticides (*Beauveria bassiana*@ 5 g/lit of water) **(Recommended practices)**
3. Alternate spray of Bearuveria bassiana @ 5 g/lit of water and thiacloprid 48% SC @ 0.096% at 15 days interval **(Refinement - 1)**
4. Seed treatment with thiomethoxam 35% FS @ 6 ml/kg seed followed by foliar application of *Beuveria bassiana* at 15 days interval starting from 30 days after sowing. **(Refinement - 2)**

No. of Replication :- 3 (Farmers)

Observations :-

1. Record pest population from 1x1 m^2 quadrate from each plot at 7 days after spray
2. Record yield at every picking. 3. Record yellow vein mosaic.

OFT-4

Title : Effect of salt and oil on spoilage of mango pickle

Objective:1. To prevent soft and slippery pickle2. To increase self life of pickle3. Cost saving

Treatments :

Common ingredients use for all treatments:- Mango 1 kg, turmeric powder 5 gm, jaggari/sugar 600 gm, fenugreek 50 gm, mustard 30 gm, asafoetida (hing) 5 gm, coriander 30 gm, funnel 30 gm,red chilly powder 30 gm.

1. Solt 12% (120 gm) + Oil 800ml/ kg mango **(Farmers practices)**
2. Solt 15% (150 gm) + Oil 250ml/ kg mango **(Recommended practices)**
3. Solt 20% (200 gm) + Oil 200ml/ kg mango **(Refinement)**

No. of Replication :- 3 (Farm women)

Observations :-

1. Self life (days) 2. Colour 3. Texture 4. Cost

OFT-5

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

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 : Evaluation of low cost high calorie & protein diets made from locally available food materials.

Objective : To study the effect of low cost high calorie diet on the growth of pre school children.

Treatments :

1. Existing dietary pattern ***(Control).***
2. Diet provided by ICDS ***(*Recommended practices*).***
3. Low cost high calorie & high protein diet prepared from locally available food materials. **(Refinement)**.

No. of Replication :- 3 repetition 5 children in each treatment (3-5 year children)

Observations :-

1. Height, weight measurement at an interval of every month up to six month.

OFT-7

Title : Nutrient management in wheat crop

Objective : To increase yield of wheat

Treatments :

1. Injudicious use of fertilizer (200 N - 90 P_2O_5 - 0 K_2O). ***(Farmers Practices).***
2. Recommended dose of fertilizer (120 N - 60 P_2O_5 - 40 K_2O) + $ZnSO_4$ @ 25 kg/ha ***(*Recommendationed practices*).***
3. T_2 + two spay of multi mix micronutrient @ 30 g/10 lit of water at 30, and 45 days after germination. **(Refinement)**.

No. of Replication :- 3 (Farmers)

Observations :-

1. Grain and fodder yield of wheat.

OFT-8

Title:Pen cultures of Indian Major Carp (IMC) spawn to fry before stocking in village Pond/Reservoir.

Objectives: 1. Mortality rate is too much higher.
2. Uncertainty about final production.

Experimental Animal: IMC spawn

Treatment: 1. Farmer's practices- Direct stocking of spawn into village ponds/reservoir.
2. Assessment- Rearing of IMC spawns in pen up to fry stage and then release into the village pond/reservoir.

No of Replications: 3 farmers

Observations:

1. Survival rate in Pen (percentage)

2. Growth rate in Pen (average body weight)
3. Total production (in KG.) at the time of harvesting from village pond/reservoir
4. Average body weight at the time of harvesting
5. Total net income

OFT: 9

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

Objectives: 1. Use maximum natural resources (Food, water body etc.)
2. To increase total yield and Income.

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

Treatment: 1. Farmer's practices- stocking a single species *Catla catla* into ponds/reservoir.
2. Assessment- stocking of *M. rosenbergii* with *Catla catla* fingerlings into ponds/reservoir

No of Replications: 3 farmers

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

2. FRONTLINE DEMONSTRATIONS

Details of FLDs to be implemented during 2015-16 (Proposed)

Sr. No.	Name of Crop/ Enterprise	Season and year	Thematic area	Technology demonstrated	Area (ha.)	No. of Demo.	Crop- Area (ha) / Entrep - No.	Name of Variety Enterprises
1	Groundnut	Kh-15	IPM (White grub)	Insecticide	4	10	4/10	
2	Groundnut	kh-15	Disease mana.(Trich)	*Trichoderma* 1 kg	2	5	2/5	
3	Groundnut	Kh-15	Pest mana.(NPV)	NPV-250 LE	2	5	2/5	
4	Chick pea	Rabi-15	IPM	Biopesticide (NPV, *Beauveria*), Seed (GJG-3)	4	10	4/10	GJG-3
5	Green gram	Sum-15-16	Varietal	Seed (GM-4) 10 kg	4	10	4/10	GM-4
6	Pearl Millet	Sum-15-16	Varietal	Seed (GHB-538) 1.5 kg	4	10	4/10	GHB-538
7	Cotton	Kh-15	IPM	Insecticide (Azadirechtin ; Profenophos).; Bio pesticide (*Beauveriabassiana*)	8	20	8/20	
8	Wheat	Rabi-15	INM	Micronutrient	8	20	8/20	
9	Cumin	Rabi-15	IDM	Trichoderma, Fungicide, Seed (GC-4)6kg	4	10	4/10	GC-4
10	Coriander	Rabi-15	Varietal	Seed (8 kg)	4	10	4/10	GC-2
11	Chilly	Kh-15	IPM	Insecticide (Azadirechtin ; Profenophos).; Bio pesticide (*Beauveriabassiana*)	2	5	2/5	
12	Brinjal	Kh-15	IPM	Insecticide (Azadirechtin ; Profenophos).; Bio pesticide (*Beauveriabassiana*)	2	5	2/5	
13	Sickle		Drudgery reduction	Improved Sickle	5	5	5/5	
14	stove		Health	Multi fuel cooking stove	5	5	5/5	
15	Kitchen gardening		Nutritional management	Seeds of vegetable for kitchen gardening		5		

3. TRAINING PROGRAMMES

Table 3.1. Details of Training programmes to be conducted by the KVKs.

Category	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Target for No. of participants	Participants							
							General		SC		ST		Others	
							M	F	M	F	M	F	M	F
2	3	4	5	7	8		9	10	11	12	13	14		
			Quarter- 1 (1st April to 30th June, 2014)											
FW	ONC	CP	Techniques of weed Management in major *kharif* crops	1	3	25	18		2				5	
IS	ONC	CP	Pre-seasonal training on *kharif* crops	1	1	25	20						5	
FW	OFC	CP	Water management through micro irrigation system	1	1	50	35	5	2				6	2
FW	ONC	SFM	Importance of Soil testing and fertility management	1	3	25	18		2				5	
FW	OFC	SFM	Soil sampling methods and fertility management	1	1	50	40		3				7	
FW	ONC	PLP	IPM in vegetable and summer crops	1	3	25	10		3				12	
FW	OFC	PLP	Integrated pest and disease management in summer crops	1	1	50	15	5	3	2			18	7
FW	OFC	PLP	Management of store grain pest in groundnut and pulse crop	1	1	50	10	10	2	2			18	8
FW	ONC	FIS	Importance and Techniques of Cage Culture and Pen culture	1	3	25							15	10
FW	OFC	FIS	Mix culture of Crap spp. with fresh water prawn.	1	1	50							40	10
FW	OFC	FIS	Value addition through Crab fattening	1	1	50							25	25
RY	ONC	CBD	Use of Information & Commu. Technology	1	3	25	17		3				5	
RY	OFC	CBD	Entrepreneurial Development of farmers/rural youth	1	1	50	30	10	2				4	4
FW	ONC	WOE	Value addition in mango	1	1	25	0	18	0	7			0	25
FW	OFC	WOE	Importance of nutrition and balance diet	1	1	50	0	42	0	8			0	50
FW	OFC	WOE	Value addition in mango	1	1	50		40		2				8
RY	OFC	WOE	Use of Solar cooker	1	1	50		40		2				8
FW	OFC	AEG	Use of Plastick mulch in farming practices	1	1	50	25	15					8	2
FW	OFC	LPM	Animal Nutrition and feed management	1	1	50	20	10					15	5
			Quarter- 2 (1st July to 30th September, 2014)											
FW	ONC	CP	Water management through micro irrigation system	1	3	25	19		3				3	
FW	OFC	CP	Weed management techniques	1	1	50	27	5	2	2			11	3
FW	ONC	SFM	Integrated Nutrient management	1	3	25	14		2				9	
FW	OFC	SFM	Integrated Nutrient management	1	1	50	30		3				17	
FW	ONC	PLP	IPM and IDM in vegetable and field crops	1	3	25	10						15	

Category	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Target for No. of participants	Participants							
							General		SC		ST		Others	
							M	F	M	F	M	F	M	F
2	3	4	5	7	8		9	10	11	12	13	14		
IS	ONC	PLP	Integrated Pest and Disease management in *Kharif* crops	1	1	25	20						5	
FW	OFC	PLP	IPM in cotton and sesame	1	1	50	20	5	2				14	9
FW	OFC	PLP	Management of diseases in *kharif*crops	1	1	50	20	5	2				15	8
FW	ONC	FIS	To create awareness about environment protection among fishermen	1	3	25							17	8
FW	OFC	FIS	Fishing technology for Ghol and Dhara Spp.	1	1	50							25	25
FW	OFC	FIS	Create awareness about environment protection among fishermen	1	1	50							50	0
RY	ONC	CBD	Agro tourism - A new concept of modern agriculture	1	3	25	10	5	2				8	
FW	OFC	CBD	Use of ICT for Agril. Development	1	1	50	18	8	3	2			12	7
RY	ONC	WOE	Income generation activity	1	1	25		17		8				25
RY	OFC	WOE	Women and child care	1	1	50		35		2				13
FW	OFC	WOE	Location specific drudgery reduction technologies	1	1	50		32						18
FW	ONC	AEG	Use of MIS in field crops	1	3	25	20						5	
FW	OFC	AEG	Installation, maintenance and fertigation through MIS	1	1	50	30						20	
			Quarter-3 (1st Oct to 31st Dec, 2014)											
FW	ONC	CP	Organic Farming	1	3	25	15		2				8	
IS	ONC	CP	Production technology in *rabi* crops	1	1	25	20						5	
FW	OFC	CP	Production technology of major *rabi* crops	1	1	50	25	5	2	2			10	6
FW	ONC	HOS	Production & Management practices of spices	1	3	25	18						7	
FW	OFC	HOS	Production & Management practices of spices	1	1	50	36						14	
FW	ONC	SFM	Importance of major and micro nutrient in crops production	1	3	25	15		2				8	
FW	OFC	SFM	Nutrient use efficiency	1	1	50	15		2				33	
FW	ONC	LPM	Animal Nutrition and feed management	1	3	25	10	15						
FW	OFC	LPM	Higher milk production by improving of breed, nutrition and feed management	1	1	50	10	15					8	17
RY	ONC	WOE	Income generation activity for empower of rural women	1	3	25		17						8
RY	OFC	WOE	Rural crafts	1	1	50		30		5				15
FW	OFC	WOE	Value addition in fruits and vegetables through jam, jelly, catchup, pickles, etc.	1	1	50		25		3				22
FW	ONC	AEG	Use of plastics mulch in farming practices	1	3	25	15						10	
FW	OFC	AEG	Use of plastics mulch MIS in farming practices	1	1	50	30						20	

Category	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Target for No. of participants	Participants							
							General		SC		ST		Others	
							M	F	M	F	M	F	M	F
2	3	4	5	7	8		9	10	11	12	13	14		
FW	OFC	AEG	Repairs and maintenance of farm implements	1	1	50	19		2				29	
FW	ONC	PLP	IPM and IDM in rabi crops	1	3	25	19						6	
FW	OFC	PLP	Integrated Disease and pest management in cumin and gram	1	1	50	20	7	2				13	8
FW	OFC	PLP	IPM in vegetable crops	1	1	50	10	10					15	15
FW	ONC	FIS	Importance of composite fish culture of Indian Major Carp and Exotic Crap Spp.	1	3	25							15	10
FW	OFC	FIS	Use of waste land in shrimp farming	1	1	50							25	25
FW	OFC	FIS	Importance of composite fish culture of Indian Major Carp and Exotic Carp Spp.	1	1	50							25	25
RY	ONC	CBD	Development of Entrepreneurship among rural youth	1	3	25	10						15	
RY	OFC	CBD	New Horizons of Agro-tourism	1	1	50	20		3				27	
			Quarter- 4 (1st Jan to 31st March, 2015)											
FW	OFC	CP	Recycling of Farm Waste material	1	1	50	20	10	3	2			10	5
FW	ONC	HOO	Protected cultivation (Green House, shed net etc.)	1	3	25	15						10	
FW	OFC	HOO	Protective cultivation (Green House, shed net etc.)	1	1	50	15	5					20	10
FW	ONC	LPM	Animal Nutrition and feed management	1	3	25		15						10
FW	OFC	LPM	Animal Nutrition and feed management	1	1	50		30						20
FW	ONC	WOE	Minimization of nutrient loss in processing	1	3	25		20						5
FW	OFC	WOE	Value addition in fruit and vegetable	1	1	50		35						15
FW	ONC	AEG	Food processing and value addition	1	3	25	10	5					5	5
FW	OFC	AEG	Operation and maintenance of farm implements	1	1	50	35		3				12	
FW	ONC	PLP	Pest management of vegetable crops	1	3	25	20						5	
FW	OFC	PLP	Integrated diseases management in rabi crops	1	1	50	25	5	2				10	8
FW	OFC	PLP	Integrated pest management in fruit and vegetable	1	1	50	30						20	
RY	ONC	FIS	Development of Small Scale ornamental fish hatchery	1	3	25							25	
RY	OFC	FIS	Skill development for value addition in fisheries sector	1	1	50							25	25
RY	OFC	FIS	Importance and techniques for cage culture and pen culture	1	1	50							35	15
RY	ONC	CBD	Market led extension	1	3	25	16		3				6	
RY	OFC	CBD	Market led extension	1	1	50	30		5				10	5

Category	Training Type	Thematic area	Training Title	No. of Courses	Duration (Days)	Target for No. of participants	Participants							
							General		SC		ST		Others	
							M	F	M	F	M	F	M	F
2	3	4	5	7	8		9	10	11	12	13	14		
			TOTAL	77		3050	1019	556	72	49			900	554

Quarter and discipline wise summary of training programme :

Sr. No.	Subject	Subject Code	On-Campus					Off-Campus					GT
			Quater					Quater					
			I	II	III	IV	Total	I	II	III	IV	Total	
1	Crop production	CP	2	1	2	0	**5**	1	1	1	1	**4**	**9**
2	Soil Health and Fertility Management	SFM	1	1	1	0	**3**	1	1	1	0	**3**	**6**
3	Plant Protection	PLP	1	2	1	1	**5**	2	2	2	2	**8**	**13**
4	Fisheries	FIS	1	1	1	1	**4**	2	2	2	2	**8**	**12**
5	Extension Education	CBD	1	1	1	1	**4**	1	1	1	1	**4**	**8**
6	Horticulture	HO	0	0	1	1	**2**	0	0	1	1	**2**	**4**
7	Home Science	WOE	1	1	1	1	**4**	3	2	2	1	**8**	**12**
8	Agril. engineering	AEG	0	1	1	1	**3**	1	1	2	1	**5**	**8**
9	Animal Science	LPM	0	0	1	1	**2**	1	0	1	1	**3**	**5**
	Total		**7**	**8**	**10**	**7**	**32**	**12**	**10**	**13**	**10**	**45**	**77**

Table 3.2 Details of Vocational training programmes for Rural Youth to be conducted by the KVKs

Sr. No.	Training title	Crop / Enterprise	Identified Thrust Area	Duration of training (days)	Number of Beneficiaries					
					SC		ST		Others	
					M	F	M	F	M	F
1	Preservation of vegetables and fruits	Fruit & Vegetable	Value addition	4		2				13
2	Preservation of mango pulp	Fruit & Vegetable	Value addition	4		2				13
3	Repairs and maintenance of tractor and farm implements	Farm implement	Self employment	4	1				14	
4	Preparation and maintenance of Aquarium	Ornamental Fish	Self employment	4					13	7
5	Preparation of sea weed fertilizer	Sea weed	Organic fertilizer	4					10	10

Table 3.3 Sponsored Training Programmes

Sr. No.	Title	Thematic area (as given in abbreviation table)	Client (FW/ RY/ IS)	Dura-tion (days)	No. of courses	Sponsoring Agency	Fund received for training (Rs.)
1	Importance of MIS	AEG	FW	1	2	ATMA	
2	Kharif crop protection and production technology	PLP	FW	1	3	ATMA	
3	INM and MIS in rabi crops	SFM, AEG	FW	1	2	AGAKHAN	
4	Integrated pest and diseases management in cumin	PLP	FW	1	1	DAO	
5	IPM & IDM in groundnut, cotton crops	PLP	FW	1	1	ATMA	
6	IPM, IDM, INM in groudnnut and cotton	PLP	FW	1	1	DAO	
7	IPM & IDM in kharif crop	PLP	FW	1	1	ATMA	

8	IPM, IDM, INM in Horticultural Crops	PLP	FW	1	1	Dy.D.Hort.	
9	IPM, IDM, INM in Horticultural Crops	PLP	FW	1	1	ATMA	
10	IPM & IDM in kharif crop	PLP	FW	1	1	DWDU	
11	Seed Production technology and IPM in these crops	PLP, CP	FW	1	1	ATMA	
12	Storage Techniques and IPM in summer crops	plp	FW	1	1	ATMA	

4. EXTENSION ACTIVITIES

Sr. No.	Activity	No. of activities (Targeted)	No. of activities (Achieved)	Detail of Participants					
				Farmers (Others)		SC/ST (Farmers)		Extension Officials	
				M	F	M	F	M	F
1	Field Day	18		150	20	200	110	3	
2	Kisan Mela	0							
3	Kisan Ghosthi	11		130	90	200	100	4	
4	Exhibition	0							
5	Film Show	7		70	20	100	40	9	
6	Method Demonstrations	4		25	10	25	20	4	
7	Result Demonstrations								
8	Farmers Seminar	4		100	25	100	25	3	
9	Workshop	0							
10	Group meetings	17		160	20	200	100	3	
11	Lectures delivered as resource persons	50		800	300	1000	400	3	
12	Newspaper coverage	1							
13	Radio talks	3							
14	TV talks	1							
15	Popular Articles	9							
16	Extension Literature	4		50		50		10	
17	Farm Advisory Services	4		5		5		7	
18	Scientific visit to farmers field	63		50	5	50	5	2	
19	Farmers Visit to KVK	45		200	100	250	100	6	
20	Diagnostic Visits	12		10		15		3	
21	Exposure Visits	0							
22	Ex-trainees Sammelan	0							
23	Soil Health Camp	0							
24	Animal Health Camp	0							
25	Agri Mobile Clinic	20		10	5	10	5	15	
26	Soil Test Campaigns	0							
27	Farm Science Club conveners meet	0							
28	Self Help Group conveners meetings	0							
29	Mahila Mandals Conveners meetings	1		0	10	0	15	2	

Sr. No.	Activity	No. of activities (Targeted)	No. of activities (Achieved)	Detail of Participants					
				Farmers (Others)		SC/ST (Farmers)		Extension Officials	
				M	F	M	F	M	F
30	Celebration of important days (like world food day, women day etc)	1		100	100	200	200	15	
31	Kisan Call Centre	1800		800		1000		20	
32	**TOTAL**	**2075**		**2660**	**705**	**3405**	**1120**	**109**	