

# **ACTION PLAN**

**1<sup>ST</sup> APRIL-2016 TO 31<sup>ST</sup> MARCH-2017**



**KRISHI VIGYAN KENDRA  
SAMODA, DI.PATAN  
ZONE- VI, JODHPUR**

# ACTION PLAN -2016-17

(1<sup>st</sup> April 2016 to 31<sup>st</sup> March 2017)

## 1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail	Website
	Office	FAX		
Krishi Vigyan Kendra, Saraswati Gram Vidhyapith Samoda-Ganwada Ta.Sidhpur, Dist. Patan, Gujarat, Pincode-384151	02767 285528	02767 285528	kvksamoda@yahoo.com	www.sgvpngo.org

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

Address	Telephone		E mail	Website
	Office	FAX		
Saraswati Gram Vidhyapith Samoda-Ganwada Ta.Sidhpur, Dist. Patan, Gujarat, Pincode-384151	02767 285199	02767 285528	kvksamoda@yahoo.com	www.sgvpngo.org

1.2.b. Status of KVK website : Yes      Date of Status 6/9/2006

1.2.c. No. of Visitors (Hits) to your KVK website (as on today) : ---





1.2.d Status of ICT lab at your KVK : ----







### 1.3. Name of the Programme Coordinator with phone & mobile no.





Name	Telephone / Contact		
	Office	Mobile	Email
Shri H.P.Patel I/C Senior Scientist and Head Krishi Vigyan Kendra, Saraswati Gram Vidhyapith Samoda-Ganwada Ta.Sidhpur, Dist. Patan, Gujarat Pincode-384151	02767-285528	9426521484	kvksamoda@yahoo.com

1.4. Year of sanction:      1993

**1.5. Staff Position (as on 30 Sept. 2015)**

Sr. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale (Rs.)	Grade Pay	Present basic (RS.)	Date of joining	Permanent /Temporary	Category (SC/ST/OBC/Others)	Mobile No.	Email id	Please attach recent photograph
1.	Programme Co-ordinator	-	-	-	PB-3 37000-67000	-	-	-	-	-	-	-	-
2.	Subject Matter Specialist	Shri H.P.Patel	S.M.S.	Extension Education	PB-3 15600-39100	5400/-	33840/-	8/5/93	Permanent	Other	9426521484	kvksamoda@yahoo.com	
3.	Subject Matter Specialist	Shri G.A.Patel	S.M.S.	Plant Protection	PB-3 15600-39100	5400/-	34860/-	6/5/93	Permanent	Other	9879924655	kvksamoda@yahoo.com	
4.	Subject Matter Specialist	Smt. H.B.Patel	S.M.S.	Home Science	PB-3 15600-39100	5400/-	28510/-	19/8/02	Permanent	Other	9909497009	hinapatelsci@gmail.com	
5.	Subject Matter Specialist	Shri.S.S. Darji	S.M.S.	Horticulture	PB-3 15600-39100	5400/-	22950/-	2/4/12	Permanent	OBC	9909941995	Sachinkumar.darji@gmail.com	

6.	Subject Matter Specialist	Shri R.P. Chaudhary	S.M.S.	Agronomy	PB-3 15600-39100	5400/-	21000/-	16/4/15	Permanent	OBC	9737391689	rp.agri14@gm ail.com	
7.	Programme Assistant	Smt. J.N.Patel	Programme Assistant	-	PB-2 9300-34800	4200/-	22690/-	27/7/96	Permanent	Other	9909847367	-	
8.	Farm Manager	Shri D.N.Patel	Programme Assistant	-	PB-2 9300-34800	4200/-	23820/-	22/2/96	Permanent	Other	9825703608	-	
9.	Computer Programmer	Shri D.R.Patel	Computer programmer	-	PB-2 9300-34800	4600/-	21800/-	1/9/02	Permanent	Other	9979161440	-	
10	Accountant/ Superintendent	Shri N.B.Patel	O.S. cum Accountant	-	PB-2 9300-34800	4600/-	24960/-	25/1/96	Permanent	Other	9714325839	-	
11	Stenographer	Shri J.K.Patel	Jr.Clerk	-	PB-1 5200-20200	2000/-	11220/-	1/9/02	Permanent	Other	9909301273	-	

12	Driver	Shri R.A.Patel	Jeep Driver	-	PB-1 5200- 20200	2000/-	9370/-	14/8/10	Permanent	Other	9727016216	-	
13	Supporting staff	Shri R.H.Desai	Supporting staff	-	PB-1 5200- 20200	1800/-	10610/-	14/5/93	Permanent	OBC	9879536469	-	
14	Supporting staff	Shri R.D.Thakor	I/C Tractor Driver	-	PB-1 5200- 20200	1800/-	10610/-	25/1/96	Permanent	OBC	9586532371	-	
15	Supporting staff	Shri P.V.Parmar	Supporting staff	-	PB-1 5200- 20200	1800/-	10610/-	25/1/96	Permanent	SC	9913298630	-	

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

S. No.	Item	Area (ha)
1	Under Buildings	1.00
2.	Under Demonstration Units	2.00
3.	Under Crops	9.00
4.	Horticulture	5.00
5.	Pond	-
6.	Others if any – Un developed	3.00

### 1.7. Infrastructural Development:

#### A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Year	Plinth area (Sq.m)	Expenditure (Rs.)	Starting year	Plinth area(Sq.m)	Status of construction
1.	Administrative Building	ICAR	1993	694	21,87,250=00	-	-	-
2.	Farmers Hostel	ICAR	1999-2000	308.82	12,37,848=11	-	-	-
3.	Staff Quarters (6)	ICAR	1996-97	731	16,89,512=74	-	-	-
4.	Demonstration Units (2) Nursery Net House	RKVY	2012-13	4,000	5,45,000=00	-	-	-
5	Fencing	ICAR	2001-02	-	2,99,902=00	-	-	-
6	Rain Water harvesting system	-	-	-	-	-	-	-
7	Threshing floor	ICAR	2006-07	262.89	2,68,039=00	-	-	-
8	Farm godown	ICAR	2006-07	44.89				
9	Implement shed	ICAR	2011-12	-	2,85,640=00	-	-	-
10	Other	-	-	-	-	-	-	-

#### B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor	1992-93	1,82,910=00	-	Write off
Jeep	2009-10	7,60,236=00	146638	OK
Motorcycle	2010-11	49,695=00	43581	OK

## C) Equipments &amp; AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Camera	1994	1,600=00	OK
Slide Projector/ O.H.P.	1994	23,969=00	OK
Mega Phone	1994	2,140=00	OK
Type Writer	1994	30,675=00	OK
Litho machine	1994	10,925=00	OK
TV	1995	15,695=00	OK
Computer + Printer	2006	66,530=00	OK
Xerox machine	2006	58,000=00	OK
Stabilizer	2006	1,750=00	OK
LCD Projector	2007	54,326=92	OK
DVD Player	2007	3,846=16	OK
Laptop	2007	39,423=08	OK
Digital Camera	2007	19,903=84	OK
Digital Camera	2009	24,800=00	OK
P.A. System	2009	28,600=00	OK
Computer	2009	49,500=00	OK
Generator	2009	98,500=00	OK
Fax machine	2009	19,800=00	OK
Multicrop thresher	2011	1,46,000=00	OK
Rotary weeder	2011	51,450=00	OK
Power sprayer	2011	15,855=00	OK
Seed cum fertilizer drill	2011	27,250=00	OK
K-YAN	2013	76,650=00	OK
Oven	2014	7200=00	OK
Sewing Machine	2014	8700=00	OK

**1.8. A). Details of SAC meetings to be conducted in the year**

Sl.No.	Date
1.	Feb.-2017

**2. DETAILS OF DISTRICT****2.1 Major farming systems/enterprises (based on the analysis made by the KVK)**

S. No	Farming system/enterprise
1.	Crop production with livestock raising (Mixed farming)
2.	Livestock raising only
3.	Poultry Farming.
4.	Cropping system predominant in district - Mono cropping                      - Mix cropping - Inter cropping                      - Relay cropping
5.	Vegetables & fruits cultivated area is very low.

**2.2 Description of Agro-climatic Zone & major agro ecological situations (based on soil and topography)****a) Soil type**

Sl. No.	Agro-climatic Zone	Characteristics
1.	Zone No.4 (Patan, Sidhpur and Chansama taluka)	- Average rainfall is 610 mm. - Soil type is loamy, sandy, saline & medium black. - Main crops- Cotton, Wheat, Castor, Cumin, Bajara & Mustard, Fennel, Chilli, Carrot
2.	Zone No.8 (Harij, Sami, Radhanpur and Santalpur taluka)	- Average rainfall is 500mm. - Soil type is loamy, sandy, saline and medium black. - Main Crops - Rainfed Cotton, Wheat, Gram, Dillseed, Mustard & Cumin.



**b) Topography**

Sr.No.	Agro-ecological	Soil texture	Rainfall (mm)	Special features	Principal crops	Taluka cover
1.	Alluvial sandy soil with low rainfall	Loamy sand to sandy loam	500-700	Low rainfall dry climate	Castor, Mustard, Bajra, Cotton, Sorghum	Sidhpur :89.56% Patan :79.9%
2.	Saline soil with low rainfall	Sandy loam saline soil	500-700	Low rainfall, dry climate, and absence of vegetative cover	Cotton, Castor, Bajra, Pulses	Chanasma : 78.64%
3.	Salt affected soil	Medium black saline soil	400-500	Low rainfall dry climate and absence of vegetative cover	Bajra, Sorghum, Cumin, Gram, Cotton	Harij : 65.45% Sami :84.32% Radhanpur : 81.54% Santalpur ; 90.98%

### 2.3 Soil Types

S. No	Soil type	Characteristics	Area in ha
1.	Heavy black soil	<ul style="list-style-type: none"> <li>- High Water holding capacity</li> <li>- Low permeability</li> <li>- Water logging condition</li> <li>- Fertile soil</li> </ul>	30400
2.	Medium black soil	<ul style="list-style-type: none"> <li>- Medium WHC</li> <li>- Medium permeability</li> <li>- Fertile soil</li> </ul>	334400
3.	Loamy soil	<ul style="list-style-type: none"> <li>- More retain water and nutrient than sandy soil and low retain water and nutrient than black soil</li> </ul>	213220
4.	Sandy soil	<ul style="list-style-type: none"> <li>- Low WHC</li> <li>- High permeability</li> </ul>	165424
5.	Saline soil	<ul style="list-style-type: none"> <li>- Salts accumulation on the soil surface</li> <li>- Water logging condition</li> <li>- Crack formation during Summer Season</li> </ul>	109535

### 2.4. Area, Production and Productivity of major crops cultivated in the district (2014-15)

S. No	Crop	Area (ha)	Production (MT.)	Productivity (Qt./ha)
1	Bajra-Kharif	23000	12466	5.42
2	Bajra-Summer	10500	26911.5	25.63
3	Cotton-Desi	27500	3107.5	1.13
4	Cotton-Hybrid	34900	31375.1	8.99
5	Castor	111800	180668.8	16.16
6	Mustard	29900	45388.2	15.18
7	Wheat	40700	139112.6	34.18
8	Gram	20800	10712	5.15
9	Green-gram	8100	3685.5	4.55
10	Black-gram	16500	13398	8.12
11	Cluster bean (Seed)	13200	6626.4	5.02
12	Moth bean	7500	3660	4.88
13	Lime	827	8766	105.99
14	Pomegranate	454	5039	111.00
15	Ber	367	3861	105.20
16	Cumin	35500	31950	9.00
17	Fennel	3100	7130	23.00
18.	Dilseed	3300	4785	14.50
19.	Potato	900	19989	222.1
20.	Cluster bean (Veg.)	820	9143	111.5
21.	Cow pea	600	6012	100.2

Source: District agriculture department.

## 2.5. Weather data (2015-16)

Month	Rainfall (mm)	Temperature 0 C		Relative Humidity (%)	
		Maximum	Minimum	Maximum	Minimum
April-15	-	37.81'	26.49'	-	
May-15	-	40.96'	27.92'	-	
June-15	45mm	39.57'	27.56'	-	
July-15	573 mm	34.37'	27.04'	-	
August-15	24 mm	31.54'	23.43'	-	
Sept.-15	20 mm	33.64'	27.25'	-	
Oct.- 15	-	34.76'	25.39'	-	
Nov.- 15	-	30.41'	20.97'	-	
Dec.- 15	-	27.12'	14.01'	-	
Jan.-16	-	25.83'	15.47'	-	
Feb.-16	-	28.40'	19.34'	-	
March-16	-	33.49'	24.39'	-	

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

Category	Population	Production (kg./lactation)	Productivity
<b>Cattle</b>			
-Indigenous	131023	1104	3.68 kg./day
-Cross breed	7650	2520	8.40 kg./day
<b>Buffalo</b>	363514	1350	4.50 kg./day
<b>Sheep</b>	53750	-	-
<b>Goats</b>	103333	-	-
<b>Pigs</b>			

Crossbred	-	-	-
Indigenous	-	-	-
<b>Rabbits</b>	-	-	-
<b>Poultry</b>	-	-	-
Hens	26210	7207750 egg./yr.	275 egg./bird/yr.
Desi	-	-	-
<b>Category</b>		<b>Production (Q.)</b>	<b>Productivity</b>
Fish (Reservoir)	-	-	-

Department of Animal Husbandry, Patan

## 2.7 Details of Operational area / Villages

Taluka	Name of the block	Name of the Village	Major crops & enterprises	Major problem identified	Identified thrust area
Sidhpur	Patan	Jafripura, Sujanpura, Chandrumana, Khanpurda, Khodana, Dharmoda, Ruppur, Kamboi,	Castor Cotton Mustard Wheat Bajra Cumin Fennel Tobacco Carrot Pomogranate Kagzi lime	-Average productivity is low in major crop.  -Low ground water table.  -Soil productivity status is low -Problematic soil- Saline & Alkaline soil  -Pest & diseases intensity high-para wilt in cotton, termite in wheat, Blight in Cumin, Mealybug in Cotton, Semi-looper & prodenia in castor, and citrus canker & dieback in lime	-Average productivity of major crops is low  -Micro irrigation system  -Reclamation of problematic soil  -Area under fruit & vegetable crop is very low  -Scope & Importance of secondary agriculture
Patan					
Chansma					
Sami	Radhanpur	Ravindra, Moka, Nana, Vaval, Kanij, Aritha, Sabdalpura, Sardarpura, Sinad, Sindhana, Gokhantar	Cumin  Gram  Guar  Castor  Wheat Dilseed Desi Cotton	-Less adoption of horticultural crops  -Loss of food grains due to poor knowledge and storage facility  -Average milk production per animal is low	-Average milk production per animal is low  -Farm mechanization  -Women empowerment through income generation activities
Harij					
Radhanpur					
Santalpur					

## 2.8 Priority thrust areas

Crop/ Enterprise	Thrust area
Castor	Integrated pest management Integrated Disease management
Cotton	Integrated crop management Integrated Nutrient management
Mustard	Integrated crop management
Wheat	Integrated pest management Weed management
Cumin/ Fennel	Integrated Disease management Production & management technology
Carrot	Post Harvest technology
Live-stock	Fodder management Improvement of local breed
Pomegranate and Lime	Integrated nutrient management Integrated pest & disease management
Home Science	<ul style="list-style-type: none"> <li>-Use of solar cooker</li> <li>-Fruits &amp; veg. preservation</li> <li>-Farm women empowerment through income generation activity</li> <li>-Drudgery reduction</li> </ul>

### 3. TECHNICAL PROGRAMME

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

OFT		FLD	
(1)		(2)	
Number of OFTs	Number of Farmers	Area (ha)	Number of Farmers
08	75	160	485

Training		Extension Activities	
(3)		(4)	
Number of Courses	Number of Participants	Number of activities	Number of participants
102	2385	204	4090

Seed Production (Qtl.)	Planting material (Nos.)	Fish seed prod. (Nos)	Soil Samples
(5)	(6)	(7)	(8)
15	205750	-	50

## 3. B. Abstract of interventions to be undertaken

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel if any	Extension activities	Supply of seeds, planting materials etc.
1	Productivity of major crops is comparatively low	Cotton	-Para wilt -Sucking pest -Micro nutrient deficiency	Integrated crop management	Integrated nutrient management	-Integrated nutrient management -Integrated pest & disease management	Latest know how about agricultural technologies	-Training -Demonstration -Field day	-Sarder Amin grannual -KNO3
		Castor	-Wilt & root rot disease incidence -Semi looper Jassid infestation	-	Varietal evaluation	-Integrated pest & disease management -Integrated crop management	Latest know how about agricultural technologies	-Training -Demonstration -Field day	Seed
		Mustard	Deficiency of sulphar	-	Integrated nutrient management	- Integrated crop management -Integrated nutrient management	Latest know how about agricultural technologies	-Training -Demonstration -Field day	-Granulated Sulphur
		Green-gram	Use of local variety	-	-	Integrated crop management	Latest know how about agricultural technologies	-Training	-



		Chilli	-Leaf curl -Micro nutrient deficiency	Integrated pest management	Integrated nutrient management	-Integrated crop management -Integrated pest & disease management	Latest know how about agricultural technologies	-Training -Demonstration -Field day	-Pesticide -Micro nutrient
		Fennel	-Use of local variety -Sugary disease -Blight disease	-	- Integrated disease management -Varietal evaluation	-Integrated crop management - Integrated disease management	Latest know how about agricultural technologies	-Training -Demonstration -Field day	-Seed -Fungicides
		Cumin	-Use of local variety -Wilt disease incidence	Integrated disease management	-Varietal evaluation - Integrated disease management	-Integrated crop management -Integrated weed management - Integrated disease management	Latest know how about agricultural technologies	-Training -Demonstration -Field day	-Seed -Fungicides
		Wheat	-Use of local (GW-496) variety -Termite infestation	-Resource conservation technology	-Varietal evaluation - Integrated Pestmanagement	-Integrated crop management - Integrated pest & disease management -Integrated weed management	Latest know how about agricultural technologies	-Training -Demonstration -Field day	-Seed -Insecticide
2.	Reclamation of problematic soil	-	Alkaline & saline soil	-	-	Importance of water saving devices	Latest know how about agricultural technologies	Training	-

3.	Area & production under fruit & vegetable crops is low	Lime	Less fruit production in summer season	-Integrated Disease Management	-	Scientific cultivation of fruit & vegetables crops	Latest know how about agricultural technologies	-Training -Demonstration -Field day	-
4.	Inadequate irrigation water	-	Ground water table low	-	-	Importance of soil & water sample analysis in crop production	Latest know how about agricultural technologies	Training	-
5.	Requirement of secondary agriculture	-Grains -Fruits & vegetables	-Storage loss -Less market price of produce	-	-	-Value addition in fruits & vegetable -Post harvest technology -Scientific method for the storage of food grains	Latest know how about agricultural technologies	Training	-
6.	Average milk production per animal is low	Live stock	-Indigenous breed -Un awareness about fodder & concentrate	-	-	-Selection of improved breeds -Fodder management of milch animals	Latest know how about agricultural technologies	Training	-

7.	Low income of landless agriculture labourers	Rural craft	-	-	-	-Women empowerment through income generation activities -Income generation activities through agrobase Gruh Udhayog -Nursery raising	Latest know how about agricultural technologies	Training	-
8.	Labour availability less	Ag. Engineering	Scarcity of agricultural labour	-	-	Scope & importance of farm machination in agriculture	Latest know how about agricultural technologies	Training	-
9.	Unawareness about solar energy -solar cooker	Resource conservation	Nutrient losses	-	-	Importance & method of using solar cooker	Latest know how about agricultural technologies	-Training -Method demonstration	-

### 3.1 Technologies to be assessed and refined

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation	-	-	-	-	-	-	-	-	-	-
Seed / Plant production	-	-	-	-	-	-	-	-	-	-
Weed Management	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	-	-	-	-	01	-	-	-	01	02
Integrated Nutrient Management	-	-	-	01	-	-	-	-	-	01
Integrated Farming System	-	-	-	-	-	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-	-	-	-	-	-
Drudgery reduction	-	-	-	-	-	-	-	-	-	-
Farm machineries	-	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	-	-	-	-	-	-	-	-	-	-
Integrated Disease Management	-	-	-	-	-	01	-	-	-	01
Resource conservation technology	01	-	-	-	-	-	-	-	-	01
Small Scale income generating enterprises	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>01</b>	-	-	<b>01</b>	<b>01</b>	<b>01</b>	-	-	<b>01</b>	<b>05</b>

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

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation	-	-	-	-	-	-	-	-	-	-
Seed / Plant production	-	-	-	-	-	-	-	-	-	-
Weed Management	-	-	-	-	-	-	-	-	-	-
Integrated Crop Management	01	-	-	-	-	-	-	-	-	01
Integrated Nutrient Management	-	-	-	-	-	-	-	-	-	-
Integrated Farming System	-	-	-	-	-	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-	-	-	-	-	-
Drudgery reduction	-	-	-	-	-	-	-	-	-	-
Farm machineries	-	-	-	-	-	-	-	-	-	-
Post Harvest Technology	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	-	-	-	-	-	-	-	-	-	-
Integrated Disease Management	-	-	-	01	-	-	-	-	-	01
Resource conservation technology	-	-	-	-	-	-	-	-	-	-
Small Scale income generating enterprises	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>01</b>	-	-	<b>01</b>	-	-	-	-	-	<b>02</b>

**A.3. Abstract on the number of technologies to be assessed in respect of livestock / enterprises**

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

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

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

**B. Details of On Farm Trial****OFT-1**

- (i) **Title** :- Integrated crop management in BT Cotton.
- (ii) **Problem diagnose** :- Low yield of BT Cotton
- (iii) **Details of technology selected for assessment / Refinement** :-
- T1 : Farmer practices  
Fertilizer Dose : 160 – 200 kg. N<sub>2</sub> + 100kg P<sub>2</sub>O<sub>5</sub> per ha.
- T2 : SAU recommendation  
Fertilizer Dose : 240 kg N<sub>2</sub> + 40 kg P<sub>2</sub>O<sub>5</sub> per ha.
- T3 : Technology for Assessment  
T2 + Three sprays of 3% KNO<sub>3</sub> at flowering stage, Ball formation stage & Ball development stage
- (iv) **Source of Technology** : SDAU, S.K.Nagar
- (v) **Thematic Area** : Integrated nutrient management
- (vi) **Performance indicator** : Yield (qt./ha.)

**OFT-2**

- (i) **Title** :- Assessment of technology for conserving soil Moisture in Wheat
- (ii) **Problem diagnose** :- Low yield due to moisture stress condition at critical stage in Wheat
- (iii) **Details of technology selected for assessment / Refinement** :-
- T1 : Farmer practices  
No use of Soil conditioner
- T2 : Technology for Assessment  
Use of Soil conditioner (Pusa Hybrogel) @ 5.0 kg./ha. with basal fertilizer before sowing
- (iv) **Source of Technology** : IARI, New Delhi
- (v) **Thematic Area** : Water conservation technology
- (vi) **Performance indicator** : (1) No.of irrigations  
(2) Yield (qt./ha.)

**OFT-3**

- (i) **Title** :- Refinement of seed rate of Wheat
- (ii) **Problem diagnose** :- Practiced more seed rate
- (iii) **Details of technology selected for assessment / Refinement** :-
- T1 : Farmer practices  
Broad casting method of sowing with seed rate-160 kg./ha.
- T2 : Technology for Refinement  
Line sowing method with seed rate-125 kg./ha. and seed treatment by Bio fertilizer
- (iv) **Source of Technology** : SDAU, S.K.Nagar
- (v) **Thematic Area** : Integrated crop management
- (vi) **Performance indicator** : (1) Expenditure of seed (Rs.)  
(2) Yield (qt./ha.)

**OFT-4**

- (i) **Title** :- Management of Gummosis disease in Lime
- (ii) **Problem diagnose** :- Low yield of fruits due to Gummosis in Lime
- (iii) **Details of technology selected for assessment / Refinement** :-
- T1 : Farmer practices  
Spraying of Copper Oxy chloride 50% WP @ 60 gm./15 lit water immediately after the cutting of dry & diseased twigs of the plants
- T2 : Technology for Assessment  
- Spraying of Fojetile A.L.80% WDG @ 20 gm./15 lit water immediately after the cutting of dry & diseased twigs of the plants
- (iv) **Source of Technology** : CCRI, Nagpur
- (v) **Thematic Area** : Integrated Disease management
- (vi) **Performance indicator** : 1. Gummosis disease incidence (%)  
2. Fruit Yield (qt./ha.)



**OFT-5**

- (i) **Title** :- Management of wilt disease in Cumin by IDM
- (ii) **Problem diagnose** :- Incidence of wilt disease
- (iii) **Details of technology selected for assessment / Refinement** :-
- T1 : Farmer practices  
No seed treatment with broadcasting method
- T2 : SAU recommendation  
- Seed treatment by Carbendazim 50WP @ 3 gm./1 kg. seed.  
- Sowing method drilling and two inter culturing.
- T3 : Technology for Refinement  
- Seed treatment by Trichoderma viridae @ 20 gm./1 kg. seed  
- Soil application of Trichoderma @ 3 kg./ha. along with 500 kg. vermi compost  
- Sowing method drilling and two inter culturing
- (iv) **Source of Technology** : SDAU, S.K.Nagar
- (v) **Thematic Area** : Integrated Disease management
- (vi) **Performance indicator** : (1) Wilt incidence (%)  
(2) Yield (qt./ha.)

**OFT-6**

- (i) **Title** :- Assessment of varieties of Carrot
- (ii) **Problem diagnose** :- Low yield of Carrot due to use of local variety
- (iii) **Details of technology selected for assessment / Refinement** :-
- T1 : Farmer practices  
Use of Local varieties for sowing
- T2 : SAU recommendation  
Use of GDC-1 variety for sowing
- T3 : Technology for assessment  
Use of Pusa Rudhira for sowing
- (iv) **Source of Technology** : IARI, New Delhi
- (v) **Thematic Area** : Varietal evaluation
- (vi) **Performance indicator** : Yield (qt./ha.)

**OFT-7**

- |              |   |           |  |
|--------------|---|-----------|--|
| <b>(i)</b>   | <b>Title</b>  | <b>:-</b> | Assessment of varieties of Cowpea (vegetable)  |
| <b>(ii)</b>  | <b>Problem diagnose</b>   | <b>:-</b> | Low yield of cowpea (vegetable) due to use of local varieties  |
| <b>(iii)</b> | <b>Details of technology selected for assessment / Refinement</b> | <b>:-</b> | <div style="margin-left: 40px;"> <p>T1 : Farmer practices</p> <p style="margin-left: 20px;">-Use of local varieties of sowing</p> <p style="margin-left: 20px;">-Variety - Pusa Falguni</p> <p>T2 : SAU Recommendation</p> <p style="margin-left: 20px;">-Use of GDVC-2 variety</p> <p>T3 : Technology assessment</p> <p style="margin-left: 20px;">Use of Kashinidhi variety</p> </div> |
| <b>(iv)</b>  | <b>Source of Technology</b>                                       | <b>:</b>  | IIVR Varansi   |
| <b>(v)</b>   | <b>Thematic Area</b>  | <b>:</b>  | Varietal evaluation  |
| <b>(vi)</b>  | <b>Performance indicator</b>                                      | <b>:</b>  | Yield (qt./ha.)  |

### 3.2 Frontline Demonstrations

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

Sl. No.	Crop	Variety	Thematic area	Technology for demonstration	Critical inputs	Season and year	Area (ha)	No. of farmers/ demon.	Parameters identified
1	Cotton	Micronutrient	INM	Micronutrient	Sardar Granuals	Kharif	15	40	Yield (qtl./ha.)
2	Green manuring + Castor	Sunhemp	Soil fertility management	Green manuring	Seed	Kharif	05	20	Yield (qtl./ha.) (Castor)
3	Chilli	Micronutrient	INM	Micronutrient	ZnSO <sub>4</sub> + FeSO <sub>4</sub>	Kharif	15	40	Yield (qtl./ha.)
4	Pomegranate	Micronutrient	INM	Micronutrient	Borex powder	Kharif	05	20	Yield (qtl./ha.) -Flowers & fruits dropping (%)
5	Castor	GCH-7	Varietal evaluation	Variety	Seed	Kharif	15	40	Yield (qtl./ha.)
6	Mustard	Micronutrient	INM	Micronutrient	Granulated sulphar	Rabi	15	40	Yield (qtl./ha.)
7	Ajavan	Gujarat Ajvan-2	Varietal evaluation	Variety	Seed	Rabi	05	20	Yield (qtl./ha.)
8	Fennel	GF-12	Varietal evaluation	Variety	Seed	Rabi	15	40	Yield (qtl./ha.)
9	Fennel	Fungicide	IDM	Fungicide	SAAF (Moncozeb + Carbendazim)	Rabi	10	25	Yield (qtl./ha.)
10	Cumin	GC-4	Varietal Evaluation	Variety	Seed	Rabi	15	40	Yield (qtl./ha.)
11	Cumin	Fungicide	IDM	Fungicide	SAAF (Moncozeb + Carbendazim)	Rabi	10	25	-Yield (qtl./ha.) -Disease incidence (%)

12	Gram	GJC-3	Varietal Evaluation	Variety	Seed	Rabi	10	30	Yield (qtl./ha.)
13	Wheat	GW-366 GW-451	Varietal Evaluation	Variety	Seed	Rabi	15	40	Yield (qtl./ha.)
14	Wheat	Pesticide	IPM	Pesticide	Fipronil 5 SC	Rabi	10	25	-Yield (qtl./ha.) -Termite infestation (%)
15	Kitchen gardening	Kitchen gardening	House hold food security	Kitchen gardening	Seed of vegetables	-	-	40	Vegetable consumption expenditure (Rs.)

**Sponsored Demonstration**

Project	Crop	Area (ha)	No. of farmers
NMOOP	Groundnut (Kharif) GG-20	20	50
	Castor (Kharif) GCH-7	20	50
	Mustard (Rabi) GDM-4	20	50
NFSM	Green gram (Kharif) GM-4	20	50
	Chickpea (Rabi) GJC-3	20	50

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

S. No.	Activity	No. of activities	Month	Number of participants
1	Field days	14	-	490
2	Farmers Training	14	-	340
3	Media coverage	02	-	-
4	Training for extension functionaries	02	-	40

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

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

**(ii) Livestock Enterprises**

Enterprise	Breed	No. of farmers	No. of animals, poultry birds/ha. etc.	Critical inputs	Performance parameters / indicators
-	-	-	-	-	-

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

#### A) ON Campus

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I Crop Production								
Weed Management	1	15	-	15	5	-	5	20
Resource Conservation Technologies								
Cropping Systems								
Crop Diversification								
Integrated Farming								
Water management								
Seed production								
Nursery management								
Integrated Crop Management	9	200	-	200	40	-	40	240
Fodder production								
Production of organic inputs								
II Horticulture								
a) Vegetable Crops								
Production of low volume and high value crops								
Off-season vegetables	1	15	-	15	5	-	5	20
Nursery raising	2	30	-	30	10	-	10	40
Exotic vegetables like Broccoli								
Export potential vegetables								
Grading and standardization								
Protective cultivation (Green Houses, Shade Net etc.)								
b) Fruits								
Training and Pruning	1	15	-	15	5	-	5	20
Layout and Management of Orchards								
Cultivation of Fruit	2	65	-	65	5	-	5	70
Management of young plants/orchards								
Rejuvenation of old orchards								
Export potential fruits								
Micro irrigation systems of orchards								
Plant propagation techniques								

<b>c) Ornamental Plants</b>								
Nursery Management								
Management of potted plants								
Export potential of ornamental plants								
Propagation techniques of Ornamental Plants								
<b>d) Plantation crops</b>								
Production and Management technology								
Processing and value addition								
<b>e) Tuber crops</b>								
Production and Management technology	2	30	-	30	10	-	10	40
Processing and value addition								
<b>f) Spices</b>								
Production and Management technology	1	15	-	15	5	-	5	20
Processing and value addition								
<b>g) Medicinal and Aromatic Plants</b>								
Nursery management								
Production and management technology								
Post harvest technology and value addition								
<b>III Soil Health and Fertility Management</b>								
Soil fertility management								
Soil and Water Conservation								
Integrated Nutrient Management								
Production and use of organic inputs	1	15	-	15	5	-	5	20
Management of Problematic soils								
Micro nutrient deficiency in crops								
Nutrient Use Efficiency								
Soil and Water Testing	1	15	-	15	5	-	5	20
<b>IV Livestock Production and Management</b>								
Dairy Management	1	-	15	15	-	5	5	20
Poultry Management								
Piggery Management								
Rabbit Management/goat								
Disease Management								
Feed management	3	15	30	45	5	10	15	60
Production of quality animal products								
<b>V Home Science/Women empowerment</b>								

Household food security by kitchen gardening and nutrition gardening								
Design and development of low/minimum cost diet								
Designing and development for high nutrient efficiency diet								
Minimization of nutrient loss in processing	1	-	15	15	-	5	5	20
Gender mainstreaming through SHGs								
Storage loss minimization techniques								
Value addition	5	-	75	75	-	25	25	100
Income generation activities for empowerment of rural Women								
Location specific drudgery reduction technologies								
Rural Crafts	1	-	15	15	-	5	5	20
Women and child care								
<b>VI Agril. Engineering</b>								
Installation and maintenance of micro irrigation systems								
Use of Plastics in farming practices								
Production of small tools and implements								
Repair and maintenance of farm machinery and implements								
Small scale processing and value addition								
Post Harvest Technology								
<b>VII Plant Protection</b>								
Integrated Pest Management	5	110	-	110	20	-	20	130
Integrated Disease Management	5	110	-	110	20	-	20	130
Bio-control of pests and diseases	2	30	-	30	10	-	10	40
Production of bio control agents and bio pesticides								
<b>VIII Fisheries</b>								
Integrated fish farming								
Carp breeding and hatchery management								
Carp fry and fingerling rearing								
Composite fish culture								
Hatchery management and culture of freshwater prawn								
Breeding and culture of ornamental fishes								



Portable plastic carp hatchery								
Pen culture of fish and prawn								
Shrimp farming								
Edible oyster farming								
Pearl culture								
Fish processing and value addition								
<b>IX Production of Inputs at site</b>								
Seed Production								
Planting material production								
Bio-agents production								
Bio-pesticides production								
Bio-fertilizer production								
Vermi-compost production								
Organic manures production								
Production of fry and fingerlings								
Production of Bee-colonies and wax sheets								
Small tools and implements								
Production of livestock feed and fodder								
Production of Fish feed								
<b>X Capacity Building and Group Dynamics</b>								
Leadership development								
Group dynamics								
Formation and Management of SHGs	1	-	10	10	-	5	5	15
Mobilization of social capital								
Entrepreneurial development of farmers/youths								
WTO and IPR issues								
<b>XI Agro-forestry</b>								
Production technologies								
Nursery management								
Integrated Farming Systems								
<b>XII Others (Pl. Specify)</b>								
<b>TOTAL</b>	<b>45</b>	<b>680</b>	<b>160</b>	<b>840</b>	<b>150</b>	<b>55</b>	<b>205</b>	<b>1045</b>
<b>(B) RURAL YOUTH</b>								
Mushroom Production								
Bee-keeping								
Integrated farming								
Seed production	1	10	-	10	5	-	5	15

Production of organic inputs	1	10	-	10	5	-	5	15
Integrated Farming (Medicinal)								
Planting material production								
Vermi-culture								
Sericulture								
Protected cultivation of vegetable crops								
Commercial fruit production								
Repair and maintenance of farm machinery and implements								
Nursery Management of Horticulture crops	1	10	-	10	5	-	5	15
Training and pruning of orchards								
Value addition	1	-	10	10	-	5	5	15
Production of quality animal products								
Dairying								
Sheep and goat rearing								
Quail farming								
Piggery								
Rabbit farming								
Poultry production								
Ornamental fisheries								
Para vets								
Para extension workers								
Composite fish culture								
Freshwater prawn culture								
Shrimp farming								
Pearl culture								
Cold water fisheries								
Fish harvest and processing technology								
Fry and fingerling rearing								
Small scale processing								
Post Harvest Technology								
Tailoring and Stitching	1	-	10	10	-	5	5	15
Rural Crafts	1	-	10	10	-	5	5	15
<b>TOTAL</b>	<b>6</b>	<b>30</b>	<b>30</b>	<b>60</b>	<b>15</b>	<b>15</b>	<b>30</b>	<b>90</b>
<b>(C) Extension Personnel</b>								
Productivity enhancement in field crops	1	15	-	15	5	-	5	20
Integrated Pest Management	1	15	-	15	5	-	5	20
Integrated Nutrient management								

Rejuvenation of old orchards								
Protected cultivation technology	1	15	-	15	5	-	5	20
Formation and Management of SHGs	1	10	2	12	6	2	8	20
Group Dynamics and farmers organization								
Information networking among farmers								
Capacity building for ICT application								
Care and maintenance of farm machinery and implements								
WTO and IPR issues								
Management in farm animals								
Livestock feed and fodder production								
Household food security								
Women and Child care								
Low cost and nutrient efficient diet designing								
Production and use of organic inputs								
Gender mainstreaming through SHGs								
Any other (Pl. Specify) PRA Techniques	1	10	2	12	6	2	8	20
<b>TOTAL</b>	<b>5</b>	<b>65</b>	<b>4</b>	<b>69</b>	<b>27</b>	<b>4</b>	<b>31</b>	<b>100</b>
<b>G. Total</b>	<b>56</b>	<b>775</b>	<b>194</b>	<b>969</b>	<b>192</b>	<b>74</b>	<b>266</b>	<b>1235</b>

**B) OFF Campus**

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I Crop Production								
Weed Management	2	40	-	40	10	-	10	50
Resource Conservation Technologies								
Cropping Systems								
Crop Diversification								
Integrated Farming								
Water management	1	20	-	20	5	-	5	25
Seed production								
Nursery management								
Integrated Crop Management	4	80	-	80	20	-	20	100
Fodder production								
Production of organic inputs								
II Horticulture								
a) Vegetable Crops								
Production of low volume and high value crops								
Off-season vegetables	3	60	-	60	15	-	15	75
Nursery raising								
Exotic vegetables like Broccoli								
Export potential vegetables								
Grading and standardization								
Protective cultivation (Green Houses, Shade Net etc.)								
b) Fruits								
Training and Pruning								
Layout and Management of Orchards								
Cultivation of Fruit	3	60	-	60	15	-	15	75
Management of young plants/orchards								
Rejuvenation of old orchards								
Export potential fruits								
Micro irrigation systems of orchards	1	20	-	20	5	-	5	25
Plant propagation techniques								

<b>c) Ornamental Plants</b>								
Nursery Management								
Management of potted plants								
Export potential of ornamental plants								
Propagation techniques of Ornamental Plants								
<b>d) Plantation crops</b>								
Production and Management technology								
Processing and value addition								
<b>e) Tuber crops</b>								
Production and Management technology	2	40	-	40	10	-	10	50
Processing and value addition								
<b>f) Spices</b>								
Production and Management technology	1	20	-	20	5	-	5	25
Processing and value addition								
<b>g) Medicinal and Aromatic Plants</b>								
Nursery management								
Production and management technology								
Post harvest technology and value addition								
<b>III Soil Health and Fertility Management</b>								
Soil fertility management	2	40	-	40	10	-	10	50
Soil and Water Conservation								
Integrated Nutrient Management								
Production and use of organic inputs	1	20	-	20	5	-	5	25
Management of Problematic soils	1	20	-	20	5	-	5	25
Micro nutrient deficiency in crops								
Nutrient Use Efficiency								
Soil and Water Testing								
<b>IV Livestock Production and Management</b>								
Dairy Management	1	20	-	20	5	-	5	25
Poultry Management								
Piggery Management								

Rabbit Management /goat								
Disease Management	2	20	20	40	5	5	10	50
Feed management	2	-	40	40	-	10	10	50
Production of quality animal products								
<b>V Home Science/Women empowerment</b>								
Household food security by kitchen gardening and nutrition gardening	1	-	20	20	-	5	5	25
Design and development of low/minimum cost diet	1	-	20	20	-	5	5	25
Designing and development for high nutrient efficiency diet								
Minimization of nutrient loss in processing	2	-	40	40	-	10	10	50
Gender mainstreaming through SHGs	1	-	20	20	-	5	5	25
Storage loss minimization techniques	1	-	20	20	-	5	5	25
Value addition	1	-	20	20	-	5	5	25
Income generation activities for empowerment of rural Women								
Location specific drudgery reduction technologies	2	-	40	40	-	10	10	50
Rural Crafts								
Women and child care	1	-	20	20	-	5	5	25
<b>VI Agril. Engineering</b>								
Installation and maintenance of micro irrigation systems								
Use of Plastics in farming practices								
Production of small tools and implements								
Repair and maintenance of farm machinery and implements								
Small scale processing and value addition								
Post Harvest Technology								
<b>VII Plant Protection</b>								
Integrated Pest Management	4	80	-	80	20	-	20	100
Integrated Disease Management	4	80	-	80	20	-	20	100
Bio-control of pests and diseases	2	40	-	40	10	-	10	50
Production of bio control agents and bio pesticides								

<b>VIII Fisheries</b>								
Integrated fish farming								
Carp breeding and hatchery management								
Carp fry and fingerling rearing								
Composite fish culture								
Hatchery management and culture of freshwater prawn								
Breeding and culture of ornamental fishes								
Portable plastic carp hatchery								
Pen culture of fish and prawn								
Shrimp farming								
Edible oyster farming								
Pearl culture								
Fish processing and value addition								
<b>IX Production of Inputs at site</b>								
Seed Production								
Planting material production (Horti.)								
Bio-agents production								
Bio-pesticides production								
Bio-fertilizer production								
Vermi-compost production (Horti.)								
Organic manures production (A.S.)								
Production of fry and fingerlings								
Production of Bee-colonies and wax sheets								
Small tools and implements								
Production of livestock feed and fodder								
Production of Fish feed								
<b>X Capacity Building and Group Dynamics</b>								
Leadership development								
Group dynamics								
Formation and Management of SHGs(HS)								
Mobilization of social capital								

Entrepreneurial development of farmers/youths (Agro.)								
WTO and IPR issues								
<b>XI Agro-forestry</b>								
Production technologies								
Nursery management								
Integrated Farming Systems (Agro)								
<b>XII Others (Pl. Specify)</b>								
<b>TOTAL</b>	<b>46</b>	<b>660</b>	<b>260</b>	<b>920</b>	<b>165</b>	<b>65</b>	<b>230</b>	<b>1150</b>



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

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Grand Total
		Male	Female	Total	Male	Female	Total	
(A) Farmers & Farm Women								
I Crop Production								
Weed Management	3	55	-	55	15	-	15	70
Resource Conservation Technologies								
Cropping Systems								
Crop Diversification								
Integrated Farming								
Water management	1	20	-	20	5	-	5	25
Seed production								
Nursery management								
Integrated Crop Management	13	280	-	28	60	-	60	340
Fodder production								
Production of organic inputs								
II Horticulture								
a) Vegetable Crops								
Production of low volume and high value crops								
Off-season vegetables	4	75	-	75	20	-	20	95
Nursery raising	2	30	-	30	10	-	10	40
Exotic vegetables like Broccoli								
Export potential vegetables								
Grading and standardization								
Protective cultivation (Green Houses, Shade Net etc.)								
b) Fruits								
Training and Pruning	1	15	-	15	5	-	5	20
Layout and Management of Orchards								
Cultivation of Fruit	5	125	-	125	20	-	20	145
Management of young plants/orchards								
Rejuvenation of old orchards	1	20	-	20	5	-	5	25
Export potential fruits								
Micro irrigation systems of orchards								
Plant propagation techniques								

<b>c) Ornamental Plants</b>								
Nursery Management								
Management of potted plants								
Export potential of ornamental plants								
Propagation techniques of Ornamental Plants								
<b>d) Plantation crops</b>								
Production and Management technology								
Processing and value addition								
<b>e) Tuber crops</b>								
Production and Management technology	4	70	-	70	20	-	20	90
Processing and value addition								
<b>f) Spices</b>								
Production and Management technology	2	35	-	35	10	-	10	45
Processing and value addition								
<b>g) Medicinal and Aromatic Plants</b>								
Nursery management								
Production and management technology								
Post harvest technology and value addition								
<b>III Soil Health and Fertility Management</b>								
Soil fertility management	2	40	-	40	10	-	10	50
Soil and Water Conservation								
Integrated Nutrient Management								
Production and use of organic inputs	2	35	-	35	10	-	10	45
Management of Problematic soils	1	20	-	20	5	-	5	25
Micro nutrient deficiency in crops								
Nutrient Use Efficiency								
Soil and Water Testing	1	15	-	15	5	-	5	20
<b>IV Livestock Production and Management</b>								
Dairy Management	2	20	15	35	5	5	10	45
Poultry Management								
Piggery Management								

Rabbit Management/goat								
Disease Management	2	20	20	40	5	5	10	50
Feed management	5	15	70	85	5	20	25	110
Production of quality animal products								
<b>V Home Science/Women empowerment</b>								
Household food security by kitchen gardening and nutrition gardening	1	-	20	20	-	5	5	25
Design and development of low/minimum cost diet	1	-	20	20	-	5	5	25
Designing and development for high nutrient efficiency diet								
Minimization of nutrient loss in processing	3	-	55	55	-	15	15	70
Gender mainstreaming through SHGs	1	-	20	20	-	5	5	25
Storage loss minimization techniques	1	-	20	20	-	5	5	25
Value addition	6	-	95	95	-	30	30	125
Income generation activities for empowerment of rural Women								
Location specific drudgery reduction technologies	2	-	40	40	-	10	10	50
Rural Crafts	1	-	15	15	-	5	5	20
Women and child care	1	-	20	20	-	5	5	25
<b>VI Agril. Engineering</b>								
Installation and maintenance of micro irrigation systems								
Use of Plastics in farming practices								
Production of small tools and implements								
Repair and maintenance of farm machinery and implements								
Small scale processing and value addition								
Post Harvest Technology								
<b>VII Plant Protection</b>								
Integrated Pest Management	9	190	-	190	40	-	40	230
Integrated Disease Management	9	190	-	190	40	-	40	230
Bio-control of pests and diseases	4	70	-	70	20	-	20	90

Production of bio control agents and bio pesticides								
<b>VIII Fisheries</b>								
Integrated fish farming								
Carp breeding and hatchery management								
Carp fry and fingerling rearing								
Composite fish culture								
Hatchery management and culture of freshwater prawn								
Breeding and culture of ornamental fishes								
Portable plastic carp hatchery								
Pen culture of fish and prawn								
Shrimp farming								
Edible oyster farming								
Pearl culture								
Fish processing and value addition								
<b>IX Production of Inputs at site</b>								
Seed Production								
Planting material production								
Bio-agents production								
Bio-pesticides production								
Bio-fertilizer production								
Vermi-compost production								
Organic manures production								
Production of fry and fingerlings								
Production of Bee-colonies and wax sheets								
Small tools and implements								
Production of livestock feed and fodder								
Production of Fish feed								
<b>X Capacity Building and Group Dynamics</b>								
Leadership development								
Group dynamics								
Formation and Management of SHGs	1	-	10	10	-	5	5	15

Mobilization of social capital								
Entrepreneurial development of farmers/youths								
WTO and IPR issues								
<b>XI Agro-forestry</b>								
Production technologies								
Nursery management								
Integrated Farming Systems								
Sponsored training								
<b>TOTAL</b>	<b>91</b>	<b>1340</b>	<b>420</b>	<b>1760</b>	<b>315</b>	<b>120</b>	<b>435</b>	<b>2195</b>
<b>(B) RURAL YOUTH</b>								
Mushroom Production								
Bee-keeping								
Integrated farming								
Seed production	1	10	-	10	5	-	5	15
Production of organic inputs	1	10	-	10	5	-	5	15
Integrated Farming								
Planting material production								
Vermi-culture								
Sericulture								
Protected cultivation of vegetable crops								
Commercial fruit production								
Repair and maintenance of farm machinery and implements								
Nursery Management of Horticulture crops	1	10	-	10	5	-	5	15
Training and pruning of orchards								
Value addition	1	-	10	10	-	5	5	15
Production of quality animal products								
Dairying								
Sheep and goat rearing								
Quail farming								
Piggery								
Rabbit farming								
Poultry production								
Ornamental fisheries								
Para vets								

Para extension workers								
Composite fish culture								
Freshwater prawn culture								
Shrimp farming								
Pearl culture								
Cold water fisheries								
Fish harvest and processing technology								
Fry and fingerling rearing								
Small scale processing								
Post Harvest Technology								
Tailoring and Stitching	1	-	10	10	-	5	5	15
Rural Crafts	1	-	10	10	-	5	5	15
<b>TOTAL</b>	<b>06</b>	<b>30</b>	<b>30</b>	<b>60</b>	<b>15</b>	<b>15</b>	<b>30</b>	<b>90</b>
<b>(C) Extension Personnel</b>								
Productivity enhancement in field crops	1	15	-	15	5	-	5	20
Integrated Pest Management	1	15	-	15	5	-	5	20
Integrated Nutrient management								
Rejuvenation of old orchards								
Protected cultivation technology	1	15	-	15	5	-	5	20
Formation and Management of SHGs	1	10	2	12	6	2	8	20
Group Dynamics and farmers organization								
Information networking among farmers								
Capacity building for ICT application								
Care and maintenance of farm machinery and implements								
WTO and IPR issues								
Management in farm animals								
Livestock feed and fodder production								
Household food security								
Women and Child care								
Low cost and nutrient efficient diet designing								
Production and use of organic inputs								
Gender mainstreaming through SHGs								
Any other (Pl. Specify)	1	10	2	12	6	2	8	20
<b>Total</b>	<b>5</b>	<b>65</b>	<b>04</b>	<b>69</b>	<b>27</b>	<b>04</b>	<b>31</b>	<b>100</b>
<b>G. TOTAL</b>	<b>102</b>	<b>1435</b>	<b>454</b>	<b>1889</b>	<b>357</b>	<b>139</b>	<b>496</b>	<b>2385</b>

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

[illegible]

[illegible]



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

#### SEED MATERIALS

Sl. No.	Crop	Variety	Quantity (qtl.)
<b>CEREALS</b>	Wheat	GW-451	10
<b>OILSEEDS</b>	Mustard	GDM-4	01
<b>PULSES</b>	-	-	-
<b>VEGETABLES</b>	-	-	-
<b>OTHERS (Specify)</b>	Fennel	GF-12	04

#### PLANTING MATERIALS

Sl. No.	Crop	Variety	Quantity (Nos.)
<b>FRUITS</b>	Lime	Kagzi lime	3000
	Papaya	Madhubindu	1000
	Pomegranate	Sinduri	500
<b>SPICES</b>	-	-	
<b>VEGETABLES</b>	-	-	
<b>Other</b>	Tobacco	GCT-3	200000
<b>FOREST SPECIES</b>	Neem	-	250
<b>ORNAMENTAL CROPS</b>	Rose, Pendula etc.	-	1000
		<b>Total</b>	<b>205750</b>

#### Bio-products

Sl. No.	Product Name	Species	Quantity	
			No	(kg)
<b>BIO PESTICIDES</b>	-	-	-	5000kg
Organic manure-Vermi compost				

**LIVESTOCK**

Sl. No.	Type	Breed	Quantity	
			(Nos)	Unit
Cattle	-	-	-	-
GOAT	-	-	-	-
SHEEP	-	-	-	-
POULTRY	-	-	-	-
Pig farming	-	-	-	-
FISHERIES	-	-	-	-

**3.6. Literature to be Developed/Published****(A) KVK News Letter**

Date of start : Dec.-2014

Number of copies to be published : 200

**(B) Literature developed/published**

S.No.	Topic	Number
1	Research paper each scientist	-
2	Technical reports	01
3	News letters	01
4	Training manual all discipline	-
5	Popular article	04
6	Extension literature	08
	<b>Total</b>	<b>14</b>

**(C) Details of Electronic Media to be Produced**

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

**3.7. Success stories/Case studies identified for development as a case. -**

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

**3.8 Indicate the specific training need analysis tools/methodology followed for Practicing Farmers**

- a) Bench mark survey
- b) Socio economic survey by PRA Technique
- c) Group discussion

**Rural Youth**

- a) Group discussion
- b) Pre structure interview

**In-service personnel**

- a) Group discussion
- b) Pre evaluation of in service personnel

**3.9 Indicate the methodology for identifying OFTs/FLDs**

**For OFT :**

- i) Field level observations
- ii) Farmer group discussions

**For FLD :**

- i) New variety/technology
- ii) Poor yield at farmers level

### 3.10 Field activities

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

Sr.No.	Year of adoption	Name of villages with block
1.	2015-16	Lukhasan – Sidhpur Varsila-Sidhpur Madhupura-Sidhpur Hajipur-Patan Brahmanwada-Chanasma
2.	2014-15	Gaglasan-Sidhpur Chandravati-Sidhpur Golapur-Patanh Kuvarad-Sami Boratvada-Harij
3.	2013-14	Der-Patan Kanesara-Sidhpur Chaveli-Chanasma

- ii. No. of farm families selected per village : - 10
- iii. No. of survey/PRA conducted : - 05
- iv. No. of technologies taken to the adopted villages :- 14
- v. Name of the technologies found suitable by the farmers of the adopted villages: -
1. GCH-7 variety –Castor
  2. GM-4 variety –Green-gram
  3. GF-11 & GF-12 variety-Fennel
  4. GC-4 variety- Cumin
  5. Mancozeb 75 WP for blight control in Cumin
  6. Application of trichoderma viridae for wilt control in Cumin.
  7. GW-366 variety of Wheat is high yielding
- vi. Impact (production, income, employment, area/technological– horizontal/vertical): -

Sr.No.	Crop	Thematic area	Technology demonstration	Area in ha. (Horizontalspread)
1.	Fennel	Varietal evaluation	GF-11 & GF-12	105
2.	Castor	Varietal evaluation	GCH-7	625
3.	Green-gram	Varietal evaluation	GM-4	75
4.	Cumin	Varietal evaluation	GC-4	350
5.	Cumin	IDM	Mencozeb 75 WP	350

6.	Cumin	Bio agent	Trichoderma viridae	85
7.	Wheat	Varietal evaluation	GW-366	25

vii. Constraints if any in the continued application of these improved technologies : - -

### 3.11. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab : Yes

1. Year of establishment : 2004

2. List of equipments purchase with amount

Sl. No.	Name of the equipment	Quantity	Cost (Rs)
1	Spectrophotometer	01	1,10,294=00
2	Flame Photometer	01	
3	PH meter	01	18,630=00
4.	Conductivity meter	01	
5.	Rotary shekar (for 16 flask)	01	88,504=00
6.	Rotary shekar (for 25 flask)	01	
7.	Hot Plate 18 x 24	01	
8.	Hot Plate 12 x 18	01	
9.	Physical Balance	01	23,348=00
10.	Chemical Balance	01	1.09,760=00
11.	Hot Air oven	01	29,536=00
12.	Glass distillation unit	01	75,832=00
13.	Vili mil	01	
14.	Kel Plus digestion system	01	2,35,675=00
15.	Distilation system	01	
16.	Acid nutrizer	01	
17.	Electroleux freeze	01	14,000=00
18.	Gas sagadi	03	2,200=00
19.	Stabilizer (for freeze)	01	550=00
20.	Store vel	01	7,900=00
21.	Iron table	02	
22.	Hygrometer	01	5,292=00
23.	Revolving chair	02	6,300=00
24.	Round stool with wheel	01	
25.	Round stool	01	
26.	Burner	02	5,328=00
27.	Stand	02	
28.	Electric Hot plate	02	
29.	Stabilizer	02	13,120=00
30.	Exost fen	02	1,500=00
31.	Gas connection	01	1,643=00

### 3. Targets of samples for analysis:

Details	No. of Samples	No. of Farmers	No. of Villages	Amount to be realized
Soil Samples	50	50	03	
Water	-	-	-	-
Plant	-	-	-	-
<b>Total</b>	<b>50</b>	<b>50</b>	<b>03</b>	<b>-</b>

## 4.0 LINKAGES

### 4.1 Functional linkage with different organizations

Sl.No.	Name of organization	Nature of Linkage
1.	Department of Agriculture, Horticulture and Animal Husbandry Patan	Training and Demonstration of Agriculture technology
		Awareness regarding horticulture development scheme
		Cattle health camp
2.	Gujarat State Fertilizer & Chemical Co. Ltd and Gujarat Narmadavally fertilizer Co. Ltd	Training programme on fertilizer management
3.	Sardarkrushinagar Dantiwada Agril. University S.K.Nagar	Technical back stopping
4.	ATMA Patan	Training & Demonstration of Agril. Technology
5.	ICDS Patan	Training programme for Extension functionaries
6.	Farmers Training Centre Patan	Linkage for imparting training to farmers, farm women & rural youth
7.	NABARD	Strengthening of farm science club

### 4.2 Details of linkage with ATMA

a) Is ATMA implemented in your district Yes

S. No.	Programme	Nature of linkage
1	Training to extension functionaries (ATM & BTM) of ATMA	-SHG formation & management -PRA techniques to achieve the training need assessment
2	Training to practicing farmers	Training about -Integrated farming system -Integrated nutrient management -Integrated pest disease management
3.	Training to farm women	-Minimization of nutrient losses while cooking -Child care & nutrition
4.	Farmers field school (FFS)	-Diagnostic services -Demonstration

**4.3 Give details of programmes under National Horticultural Mission**

S. No.	Programme	Nature of linkage
-	-	-

**4.4 Nature of linkage with National Fisheries Development Board**

S. No.	Programme	Nature of linkage
-	-	-

**5.0 Utilization of hostel facilities**

S. No.	Programme	No. of days
1	Preparation of khakhara	04
2	Tailoring course in women and children garments	30
3	Nursery raising in vegetable & fruit crops	04
4	Preparation of doormate and rope swing	06
5	Vermi compost production	04
6	Seed production technology of Rabi crops	04
	<b>Total</b>	<b>52</b>

**6.0 Convergence with departments :**

S. No.	Name of Department	Activities
1	Gujarat State Horticulture Dept.	Promotion & subsidy for horticultural crops
2.	Gujarat Green Revolution company	Promotion to increase the area under Micro Irrigation System
3.	State Agriculture Department	To promote farm mechanization by Various farm impliments
4.	Agriculture Tech. Management Agency (ATMA)	Demonstration of diff.Agril. Technologies & diagnostic services

**7.0 Feedback of the farmers about the technologies demonstrated and assessed :**

S. No.	Demonstrated/assessed technology	Feed back
1	G.C.H.-7 variety-Castor	High yielding & wilt resistant
2.	G.C.-4 variety-Cumin	High yielding & wilt tolerant variety
3.	G.F.-12 Variety-Fennel	High yielding variety for Rabi season
4.	G.W.-366 Variety-Wheat	High yielding variety
5.	G.D.C.-1 Variety-Carrot	Colour of the Carrot is light red as compared to local variety
6.	G.M.-4 Variety-Green-gram	Cluster habit in pod formation & high yielding
7.	Spraying of KNO <sub>3</sub> at flowering & Ball formation – Cotton	Good flowering & Ball formation
8.	Seed treatment with Fipronil - 5SC- Wheat	Good control over infestation of termite
9.	Bio fungicide-Trichoderma-Cumin	To control the wilt disease in Cumin

**8.0 Feedback from the KVK Scientists (Subject wise) to the research institutions/universities :**

S. No.	Crop	Feed back for research institution , universities
1	Carrot	Required high yielding & dark red coloured variety
2.	Chilli	Required high yielding & leaf curl resistant variety
3.	Potato	Required blight resistant variety
4.	Fennel	Required sugary disease (Physiological disorder) resistant variety
5.	Mustard	Required high yielding & sucking pest resistant variety
6.	Cotton	Required sucking pest resistant variety



## Training Programme

## i) Farmers &amp; Farm women (On Campus)

Date	Clientele	Title of the training programme	Duration in days	Number of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
Crop Production										
April-2016	PF	Importance and method of soil &water sampling	01	15	-	15	5	-	5	20
May-2016	PF	Scientific cultivation of BT Cotton	02	15	-	15	5	-	5	20
May-2016	PF	Scientific cultivation of Groundnut	01	15	-	15	5	-	5	20
July-2016	PF	Advance production technology in Castor	01	15	-	15	5	-	5	20
Oct.-2016	PF	Scientific cultivation of Mustard	01	15	-	15	5	-	5	20
Nov.2016	PF	Production technology of Tobacco	01	15	-	15	5	-	5	20
Nov.2016	PF	Scientific cultivation of Wheat	01	15	-	15	5	-	5	20
Nov.2016	PF	Scientific cultivation of Chick pea	01	15	-	15	5	-	5	20
Dec.-2016	PF	Judicious use of herbicides for better crop production	02	15	-	15	5	-	5	20
Jan.-2017	PF	Production and use of organic manures	02	15	-	15	5	-	5	20
Horticulture										
April-2016	PF	Training & Pruning techniques in Pomegranate	02	15	-	15	5	-	5	20
May-2016	PF	Production and management technology in chilli	01	15	-	15	5	-	5	20
June-2016	PF	Nursery raising of chilli	02	15	-	15	5	-	5	20
Aug.-2016	PF	Advanced production technology in Pomegranate	01	15	-	15	5	-	5	20
Spet.2016	PF	Production management technology in Carrot	01	15	-	15	5	-	5	20
Oct.-2016	PF	Advance production technology in Potato	01	15	-	15	5	-	5	20

Nov.-2016	PF	Advanced production technology in Cumin	01	15	-	15	5	-	5	20
Feb.-2017	PF	Scientific cultivation of Cow pea	01	15	-	15	5	-	5	20
<b>Livestock prod.</b>										
June-2016	FW	Housing of dairy animals	02	15	-	15	5	-	5	20
Sept.-2016	FW	Green Fodder production technology round the year	01	15	-	15	5	-	5	20
Dec.-2016	FW	Health & Hygiene breeding and feed management of dairy animals	01	15	-	15	5	-	5	20
Feb.-2017	FW	Importance of colostrums feeding in calf raising	01	15	-	15	5	-	5	20
<b>Agril. Engg.</b>										
-	PF	-	-	-	-	-	-	-	-	-
<b>Home Science</b>										
May-2016	PF	Preparation and preservation of mango products	02	15	-	15	5	-	5	20
June-2016	PF	Preparation and preservation of mango products	02	15	-	15	5	-	5	20
July-2016	PF	Preparation of Bakery products	01	15	-	15	5	-	5	20
Nov.-2016	PF	Preparation and preservation of aonla products	02	15	-	15	5	-	5	20
Dec.-2016	PF	Preparation and preservation of aonla products	02	15	-	15	5	-	5	20
Jan.-2017	PF	Value addition in fruits and vegetables	02	15	-	15	5	-	5	20
Feb.-2017	PF	Preparation of decorative items from waste materials	01	15	-	15	5	-	5	20
<b>Plant Protection</b>										
April-2016	PF	Role of soil solarization & rabbing in insect pest & disease management	01	15	-	15	5	-	5	20
May-2016	PF	Identification of predator & parasite & their role in Insect pest management	02	15	-	15	5	-	5	20
June-2016	PF	Plant Protection measures of	01	15	-	15	5	-	5	20

		sucking pests & para wilt in BT Cotton								
July.-2016	PF	Integrated pest & disease management in Castor	01	15	-	15	5	-	5	20
Aug.-2016	PF	Integrated pest & disease management in Chilli	01	15	-	15	5	-	5	20
Sept.-2016	PF	Precautionary measures to control the Blight & sugary disease in Fennel	01	15	-	15	5	-	5	20
Oct.-2016	PF	Plant Protection measures to control the pest & diseases in chick pea	01	15	-	15	5	-	5	20
Nov.-2016	PF	Integrated insect pest management in Wheat	01	15	-	15	5	-	5	20
Dec.-2016	PF	Plant Protection measures of diseases in cumin	01	15	-	15	05	-	05	20
Jan.-2017	PF	Role of Bio-control agent chrysopa & LBB in sucking pest management	01	15	-	15	5	-	5	20
<b>Fisheries</b>										
-	PF	-	-	-	-	-	-	-	-	-
<b>Soil Health</b>										
Feb.-2017	PF	Production & use of organic manure in sustainable agriculture	01	15	-	15	05	-	05	20

## i) Farmers &amp; Farm women (Off Campus)

Date	Clientele	Title of the training programme	Duration in days	Number of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
Crop Production										
June-2016	PF	Reclamation of problematic soil	01	20	-	20	05	-	05	25
July-2016	PF	Integrated nutrient management in Cotton	01	20	-	20	05	-	05	25
August-2016	PF	Integrated weed management in Cotton	01	20	-	20	05	-	05	25
Sept.-2016	PF	Integrated nutrient management in Castor	01	20	-	20	05	-	05	25
Oct.-2016	PF	Importance and scope of dri and sprinkler irrigation for higher crop production	01	20	-	20	05	-	05	25
Nov.-2016	PF	Production technology of Fennel	01	20	-	20	05	-	05	25
Dec.-2016	PF	Integrated weed management in wheat	01	20	-	20	05	-	05	25
Jan.-2017	PF	Scientific cultivation of fodder Bajra and Sorghum	01	20	-	20	05	-	05	25
Feb.-2017	PF	Importance and efficient use of Bio-fertilizer	01	20	-	20	05	-	05	25
March-2017	PF	Importance of organic farming	01	20	-	20	05	-	05	25
Horticulture										
May-2016	PF	Importance & scope of micro irrigation system	01	20	-	20	05	-	05	25
June-2016	PF	Production management technology in Brinjal	01	20	-	20	05	-	05	25
July-2016	PF	Advances production technology in Papaya	01	20	-	20	05	-	05	25
August-2016	PF	Scientific cultivation of chill	01	20	-	20	05	-	05	25

Sept.-2016	PF	Integrated nutrient management in Carrot	01	20	-	20	05	-	05	25
Oct.-2016	PF	Integrated nutrient management in Potato	01	20	-	20	05	-	05	25
Nov.-2016	PF	Production management technology in Cumin	01	20	-	20	05	-	05	25
Dec.2016	PF	Integrated nutrient management in Pomegranate	01	20	-	20	05	-	05	25
Jan.-2017	PF	Scientific cultivation of water melon	01	20	-	20	05	-	05	25
Feb.-2017	PF	Scientific cultivation of cluster bean (Veg.)	01	20	-	20	05	-	05	25
<b>Livestock prod.</b>										
May-2016	FW	Selection of milch animals	01	20	-	20	05	-	05	25
June--2016	FW	Importance of dry & green fodder in livestock production	01	20	-	20	05	-	05	25
July-2016	FW	Vaccination in animals and its economical importance	01	20	-	20	05	-	05	25
Oct.-2016	PF	Health & Hygiene management of dairy animals	01	20	-	20	05	-	05	25
March-2017	FW	Importance of mineral mixture and urea treatment on fodder	01	20	-	20	05	-	05	25
<b>Agril. Engg.</b>										
-	PF	-	-	-	-	-	-	-	-	-
<b>Home Science</b>										
April-2016	FW	Safe food grain storage method	01	20	-	20	05	-	05	25
May-2016	FW	Use of solar cooker	01	20	-	20	05	-	05	25
July-2016	FW	Preparation of low cost balanced diet for school children	01	20	-	20	05	-	05	25
August-2016	FW	Drudgery reduce in technology for farm women	01	20	-	20	05	-	05	25
Sept.-2016	FW	Minimization of nutrient losses while cooking of pulses food	01	20	-	20	05	-	05	25
Oct.-2016	FW	Care and nutrition for children and pregnant women	01	20	-	20	05	-	05	25

Nov.-2016	FW	Dehydration of green leafy vegetable like palak and methi	01	20	-	20	05	-	05	25
Jan.-2017	FW	Importance and techniques of kitchen gardening	01	20	-	20	05	-	05	25
March-2017	FW	Importance of S.H.G.	01	20	-	20	05	-	05	25
<b>Plant Protection</b>										
July-2016	PF	Plant Protection measures of pest & disease in pulses crops	01	20	-	20	05	-	05	25
July-2016	PF	Integrated pest & disease management in BT Cotton	01	20	-	20	05	-	05	25
August-2016	PF	Control measures of insect pest & diseases in vegetable crops	01	20	-	20	05	-	05	25
Sept.-2016	PF	Plant Protection measures of insect pest & diseases in Pomegranate	01	20	-	20	05	-	05	25
Oct.-2016	PF	Role of Bio control agents for control of insect pest of field crops viz. Lucerne & Mustard	01	20	-	20	05	-	05	25
Nov.-2016	PF	Plant Protection measures of insect pest & diseases in Potato	01	20	-	20	05	-	05	25
Nov.-2016	PF	Integrated disease management in Kagdi lime	01	20	-	20	05	-	05	25
Dec.-2016	PF	Integrated pest & disease management in spice crops	01	20	-	20	05	-	05	25
Jan.-2017	PF	Role of Bio control agent (Trichoderma) for disease management in field crops	01	20	-	20	05	-	05	25
Feb.-2017	PF	Plant protection measures for raising the seedlings of fruit and vegetables crops	01	20	-	20	05	-	05	25
<b>Fisheries</b>										
-	PF	-	-	-	-	-	-	-	-	-
<b>Soil Health</b>										
May-2016	PF	Soil health and concept for soil health management	01	20	-	20	05	-	05	25

### ii) Vocational training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title*	Month	Duration (days)	No. of Participants			SC/ST participants			G. Total
					M	F	T	M	F	T	
Wheat Mustard Cumin Fennel	Seed Production	Seed production technology of Rabi crops	Oct.— Nov.	04	13	-	13	02	-	02	15
Organic manure	Production of organic inputs	Vermi compost production	Sept.	04	13	-	13	02	-	02	15
Nursery	Nursery raising	Nursery raising in vegetable & fruit crop	June- July	04	15	-	15	-	-	-	15
Tailoring	Tailoring stitching	Tailoring course in women and children garments	May	30	-	10	10	-	05	05	15
Craft	Rural craft	Preparation of doormat and rope swing	July	06	-	10	10	-	05	05	15
-	Value addition	Preparation of khakhra making	April	04	-	10	10	-	05	05	15

### iii) Training programme for extension functionaries

Date	Clientele	Title of the training programme	Durati on in days	No. of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
On Campus										
	ATMA & BTM (ATMA)	Training need assessment & PRA technique	01	10	02	12	06	02	08	20
	-VLW -Extension officer	Awareness regarding latest know how agriculture	01	15	-	15	05	-	05	15
	-VLW -Extension officer	Integrated pest & disease management in field crops	01	15	-	15	05	-	05	15
	ATMA & BTM (ATMA)	Techniques for raising the nursery of fruit & vegetable crops	01	10	02	12	06	02	08	20
	ATMA & BTM (ATMA)	Formation & management of SHG	01	10	02	12	06	02	08	20

## iv) Sponsored programme

Discipline	Sponsoring agency	Clientele	Title of the training programme	No. of course	No. of participants			Number of SC/ST			G. Total
					M	F	T	M	F	T	
a) Sponsored training programme											
Crop Production	G.S.F.C./ G.N.F.C.	PF	Selection & method of application of chemical fertilizer and its efficient use	01	45	-	45	05	-	05	50
Crop Production	ATMA Patan	PF	Integrated nutrient management in castor	01	45	-	45	05	-	05	50
Horticulture	Horticulture Dept. Patan	PF	Scientific cultivation of pomegranate & Papaya	01	50	-	50	-	-	-	50
Plant Protection	F.T.C. Patan	PF	Integrated pest & diseases management of Rabi crops	01	50	-	50	-	-	-	50
Plant Protection	F.T.C. Patan	PF	Integrated pest & disease management of Kharif crop	01	50	-	50	-	-	-	50
Home Science	ATMA Patan	FW	Fruit and vegetable preservation techniques	01	-	20	20	-	05	05	25
			Total	06							
b) Sponsored research programme											
-	-	-	-	-	-	-	-	-	-	-	-
			Total	-	-	-	-	-	-	-	-
c) Any special programmes											
-	-	-	-	-	-	-	-	-	-	-	-
			Total	-	-	-	-	-	-	-	-